

REPAIRS, REFURBISHMENT, ALTERATION AND NEW WORKS FOR MSUNDUZI MUNICIPALITY-SUPPLY AND SERVICES CONTRACT NUMBER 72 OF 2025 SECTION 1-3 RATE BASED BILL OF QUANTITIES					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION NO. 1</u>				
	<u>NON ITEMISED / SPECIFIED / EMERGENCY WORK</u>				
	<u>BILL NO. 1</u>				
	<u>DISCIPLINE FOR LABOUR ONLY & FOR MATERIAL REFER TO CLAUSE PS3 - DETAILS OF CONTRACT (NON ITEMIZED/SPECIFIED/EMERGENCY WORK)</u>				
	<u>Tender Rate Per Hour Excluding Vat 07h00 to 17h00</u>				
1	Artisan Skilled	Hrs	1	80.00	80.00
2	Semi-Skilled Labourer	Hrs	1	50.00	50.00
3	Unskilled Labourer	Hrs	1	35.00	35.00
	<u>Tender Rate Per Hour Excluding Vat 17h00 to 07h00</u>				
4	Artisan Skilled	Hrs	1	85.00	85.00
5	Semi-Skilled Labourer	Hrs	1	55.00	55.00
6	Unskilled Labourer	Hrs	1	40.00	40.00
	<u>Preliminaries and General</u>				
	<u>The P&G's are priced excluding Vat but are inclusive of all items and expressed as a percentage amount of the Project Value in the appropriate category as indicated below. A percentage as per categories below must be added to the Project Amount to form a Final Project value in terms of the following thresholds:-</u>				
7	+ R0 to R30 000	%	12		
8	+ R30 000 to R60 000	%	11.5		
9	+ R60 000 to R100 000	%	11		
10	+ R100 000 to R200 000	%	10.5		
11	+ R200 000 to R500 000	%	10		
12	+ R500 000 to R750 000	%	9.5		
13	+ R750 000 to R1 000 000	%	9		
14	R1 000 000 to R1 500 000	%	8.5		
15	R1 500 000 to R2 000 000	%	8.25		
16	R 2 001 000 to R3 000 000	%	8		
	Carried to Final Summary				
				R	345.00

SECTION NO. 2 & 3**BILL NO. 1****DEMOLITIONS****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLESView site

Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

Explosives

No explosives whatsoever may be used for demolition purposes unless otherwise stated

General

Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent

Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site

REMOVAL OF EXISTING WORK**Breaking up and removing unreinforced concrete**

1	50mm Thick concrete surface beds,paving, etc	m2	1	113.00	113.00
2	Ditto 85mm	m2	1	226.00	226.00
	Ditto 100mm	m2	1	270.00	270.00
3	Steps	m3	1	3,025.00	3,025.00
	<u>Breaking up and removing reinforced concrete including cutting back/and removing reinforcement</u>	H3	0		
4	Stairs and landings	m3	1	1,788.00	1,788.00
5	85 mm Thick mesh reinforced concrete surface beds, paving, etc	m2	1	269.00	269.00
6	Ditto 100mm	m2	1	288.00	288.00
7	Ditto 150mm	m2	1	322.00	322.00
8	Ditto 200mm	m2	1	350.00	350.00
9	Ditto 250mm	m2	1	390.00	390.00
10	Ditto 300mm	m2	1	452.00	452.00
	<u>Breaking up and removing</u>				
11	150 x 300mm Concrete kerbs	m	1	100.00	100.00
12	115 x 170mm Brick kerbs with mortar joints	m	1	95.00	95.00
13	Beams	m3	1	1,650.00	1,650.00
14	Columns	m3	1	1,650.00	1,650.00
15	1000 x 1000mm Portion of 100mm to 200 thick slab	No	1	450.00	450.00
16	1000 x 1000mm Portion of 200mm to 300mm thick slab	No	1	550.00	550.00
17	1000 x 1000mm Opening through 100mm to 200mm thick slab	No	1	450.00	450.00
18	1000 x 1000mm Opening through 200mm to 300mm thick slab	No	1	550.00	550.00
	<u>Taking down and removing</u>				
20	Steel wire mesh fence 1,5m-1,8m high	m	1	100.00	100.00

21	Ditto 2,1m high- 2,4m high	m	1	150.00	150.00
22	Ditto 3,0m high- 4,0m high	m	1	250.00	250.00
23	Ditto 5,0m high- 6,0m high	m	1	400.00	400.00
24	Steel palisade fence 1,8m- 2,4m high	m	1	100.00	100.00
25	Precast concrete palisade fence 1,8m high	m	1	150.00	150.00
26	Precast concrete palisade fence 2,4m high	m	1	180.00	180.00
27	Precast concrete panel fence 1,8m high	m	1	100.00	100.00
28	Precast concrete panel fence 2,4m high	m	1	150.00	150.00
29	Diamond mesh fence 1.5m high with steel posts and droppers	m	1	80.00	80.00
30	Diamond mesh fence 1.8m-2,1m high with steel posts and droppers	m	1	100.00	100.00
31	Diamond mesh security fence with 45 degree barbed wire overhang 2.1m high overall with steel posts and droppers	m	1	120.00	120.00
32	Clear view panel fence 1,8m to 2,1m high	m	1	100.00	100.00
33	Clear view panel fence 2,1m to 2,4m high	m	1	150.00	150.00
	<u>Breaking down and removing brickwork etc</u>				
34	Mass brickwork	m3	1	650.00	650.00
35	Half brick wall	m2	1	140.00	140.00
36	One brick wall	m2	1	280.00	280.00
37	280mm Hollow wall	m2	1	330.00	330.00
	<u>Demolishing and removing</u>				
38	Single storey building with pitched roof rectangular/ square/circular on plan and 2.8m high at eaves comprising concrete surface bed, One brick External walls, half brick internal walls and tile roof coverings on timber Trusses	m2	1	2,000.00	2,000.00
39	Single storey building with pitched roof rectangular/ square/circular on plan and 2.8m high at eaves comprising concrete surface bed, One brick External walls, half brick internal walls and metal roof coverings on timber Trusses	m2	1	1,900.00	1,900.00
40	Ditto but with reinforced concrete roof slab not exceeding 250mm thick	m2	1	2,500.00	2,500.00
41	Double storey building with pitched roof rectangular/ square/circular on plan and 6m high overall comprising concrete surface bed, reinforced concrete intermediate and roof slabs, One brick external walls and half brick Internal walls	m2	1	3,500.00	3,500.00
42	Double storey building with flat roof rectangular/ square/circular on plan and 6m high overall comprising concrete surface bed, reinforced concrete intermediate and roof slabs, One brick external walls and half brick Internal walls	m2	1	4,000.00	4,000.00
43	Steel structure comprising all steel members including roof covering	m2	1	1,500.00	1,500.00
	Carried to Final Summary			R	31,918.00
	<u>BILL NO. 2</u>				
	<u>ALTERATIONS</u>				
	<u>PREAMBLES</u>				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	View site				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				

No explosives whatsoever may be used for alteration purposes unless otherwise stated

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately 1km to store and handed over to the employer

Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

TEMPORARY BARRICADES, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	SANS approved weld mesh type temporary barrier fencing 1,5m high fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing	m	1	100.00	100.00
2	Ditto 1,5m-2,1m	m	1	150.00	150.00
3	Temporary hoarding and framework of drywall one side unpainted $\pm$ 3m high and removal later	m	1	450.00	450.00
4	Temporary hoarding and framework of drywall one side unpainted $\pm$ 6m high and removal later	m	1	900.00	900.00
5	Extra over for single door and frame	No	1	1,800.00	1,800.00
6	Extra over for double door and frame	No	1	2,500.00	2,500.00
7	Half brick barrier wall, including cement plaster and two coats interior quality PVA emulsion paint on one side	m2	1	400.00	400.00
8	Dust screen , between concrete floor and ceiling formed of suitable timber framing with 100 micron polyethylene sheeting stapled on including corners, ends, etc	m	1	245.00	245.00
9	Drywall barrier 2.1m high,formed of galvanised steel channel section rails and studs covered on one side with 12,5mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc	m	1	550.00	550.00
10	Extra over preceding item for hollow core single door , including steel frame, two-lever mortice lock, primer and two coats paint	No	1	1,200.00	1,200.00
<u>90mm BPB Gypsum Industries or equal similar Architect approved drywall consisting of 58mm ultrasteel studs and tracks,clad on sides with 12.5mm taper edge firestop board fixed with 25mm taper-edge rhino firestop board. All joints are to be taped and jointed in accordance with manufacturers specifications</u>					
<u>Partitions will consist of non-load bearing partitioning, using 58mm drywall steel studding @ 600mm centre to centre and steel drywall top and bottom tracks fixed to underside of ceiling and floor and clad one sides with single layer of 12.5mm gypsum plaster boards with tapered edges. Boards to be fixed 220mm center to centre using standard drywall screws. Joints to be taped. All joints between track, ceiling, floor and wall abutments to be sealed.</u>					
11	Partitioning	m2	1	600.00	600.00
12	Extra over partition for vertical abutment	No	1	250.00	250.00
13	Extra over , partition for forming opening for single door and frame	No	1	400.00	400.00
14	Extra over , partition for forming opening for double door and frame	No	1	600.00	600.00

REMOVAL OF EXISTING WORK					
	Taking out and removing doors, windows, etc from brickwork to be demolished				
15	Timber single door and frame not exceeding 2,5m ²	No	1	180.00	180.00
16	Timber single door and frame 900 x 2100mm high	No	1	180.00	180.00
17	Timber double door and frame exceeding 2.5m ² and not exceeding 3m ²	No	1	250.00	250.00
18	Timber double door and frame 1500 x 2100mm high	No	1	250.00	250.00
19	Timber single door and steel frame not exceeding 2,5m ²	No	1	180.00	180.00
20	Timber single door and steel frame 900 x 2100mm high	No	1	180.00	180.00
21	Timber double door and steel frame exceeding 2.5m ² and not exceeding 3m ²	No	1	210.00	210.00
22	Timber double door and steel frame 1500 x 2100mm high	No	1	210.00	210.00
23	Glazed timber window not exceeding 2,5m ²	No	1	190.00	190.00
24	Glazed timber window exceeding 2.5m ² and not exceeding 3m ²	No	1	210.00	210.00
25	Glazed timber window 1800 x 1200mm high	No	1	190.00	190.00
26	Glazed steel window not exceeding 2,5m ²	No	1	190.00	190.00
27	Glazed steel window exceeding 2.5m ² and not exceeding 3m ²	No	1	210.00	210.00
28	Glazed steel window 1800 x 1200mm high	No	1	190.00	190.00
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)</u>					
29	Timber single door and frame overall from one brick wall	No	1	320.00	320.00
30	Timber double door and frame high overall from one brick wall	No	1	426.00	426.00
31	Timber single door and steel frame 900 x 2100mm high overall from one brick wall	No	1	320.00	320.00
32	Timber double door and steel frame 1500 x 2100mm high overall from one brick wall	No	1	426.00	426.00
33	Glazed timber window 1.8 x 1.2m high from one brick wall	No	1	320.00	320.00
34	Glazed steel window 1.8 x 1.2m high from one brick wall	No	1	320.00	320.00
<u>Taking out doors, windows, etc including thresholds, sills, etc and handing to employer (building up openings elsewhere)</u>					
35	Timber single door and frame from one brick wall	No	1	320.00	320.00
36	Timber single door frame from one brick wall	No	1	203.00	203.00
37	Timber single door	No	1	169.00	169.00
37	Timber double door and frame from one brick wall	No	1	426.00	426.00
38	Timber double door frame from one brick wall	No	1	282.00	282.00
39	Single door steel frame from one brick wall	No	1	320.00	320.00
40	Double door steel frame from one brick wall	No	1	426.00	426.00
41	Glazed timber window not exceeding 1m ² from one brick wall	No	1	169.00	169.00
42	Glazed timber window exceeding 1m ² from one brick wall	No	1	282.00	282.00
43	Glazed steel window not exceeding 1m ² from one brick wall	No	1	175.00	175.00
44	Glazed steel window exceeding 1m ² from one brick wall	No	1	288.00	288.00
<u>Taking out doors, windows, etc including thresholds, sills, etc and setting aside for re-use (refixing and building up openings elsewhere)</u>					
45	Timber single door and frame from one brick wall	No	1	320.00	320.00
46	Timber double door frame from one brick wall	No	1	320.00	320.00
42	Timber single door and steel frame from one brick wall	No	1	320.00	320.00
43	Timber double door and steel frame from one brick wall	No	1	426.00	426.00

44	Glazed timber window not exceeding 1m2 from one brick wall	No	1	169.00	169.00
45	Glazed timber window exceeding 1m2 from one brick wall	No	1	282.00	282.00
46	Glazed steel window not exceeding 1m2 from one brick wall	No	1	175.00	175.00
47	Glazed steel window exceeding 1m2 from one brick wall	No	1	288.00	288.00
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)</u>					
46	Timber single door and frame from one brick wall	No	1	1,891.00	1,891.00
47	Timber double door and frame from one brick wall	No	1	2,522.20	2,522.20
48	Timber single door and steel frame from one brick wall	No	1	1,891.00	1,891.00
49	Timber double door and steel frame from one brick wall	No	1	2,522.00	2,522.00
50	Glazed timber window not exceeding 1m2 from one brick wall	No	1	2,026.00	2,026.00
51	Glazed timber window exceeding 1m2 from one brick wall	No	1	2,482.00	2,482.00
52	Glazed steel window not exceeding 1m2 from one brick wall	No	1	2,026.00	2,026.00
53	Glazed steel window exceeding 1m2 from one brick wall	No	1	2,482.00	2,482.00
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good face brickwork on one side and cement plaster on other side (making good paintwork elsewhere)</u>					
54	Timber single door and frame from one brick wall	No	1	2,196.00	2,196.00
55	Timber double door and frame from one brick wall	No	1	3,031.00	3,031.00
56	Timber single door and steel frame from one brick wall	No	1	2,196.00	2,196.00
57	Timber double door and steel frame from one brick wall	No	1	3,031.00	3,031.00
58	Glazed timber window not exceeding from one brick wall	No	1	2,374.00	2,374.00
59	Glazed timber window exceeding from one brick wall	No	1	2,882.00	2,882.00
60	Glazed steel window not exceeding from one brick wall	No	1	2,374.00	2,374.00
61	Glazed steel window exceeding from one brick wall	No	1	2,882.00	2,882.00
<u>Refixing of existing doors, windows, etc (removal and setting aside elsewhere measured)</u>					
62	Setting up and building in timber door and frame in brickwork, rehangng single door on new 100mm brass hinges and replacing lock with 3 lever mortice lock	No	1	975.00	975.00
63	Setting up timber window not exceeding 1m2 in brickwork and replacing any broken glass panes with 3mm clear float glass	No	1	1,015.00	1,015.00
64	Setting up timber window exceeding 1m2 in brickwork and replacing any broken glass panes with 3mm clear float glass	No	1	1,354.00	1,354.00
65	Setting up steel window not exceeding 1m2 in brickwork and replacing any broken glass panes with 3mm clear float glass	No	1	677.00	677.00
66	Setting up steel window exceeding 1m2 in brickwork and replacing any broken glass panes with 3mm clear float glass	No	1	902.00	902.00
67	Repair ironmongery on existing timber door complete	No	1	338.00	338.00
68	Ditto on steel door	No	1	451.00	451.00
69	Ditto on steel door	No	1	508.00	508.00
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>					
<u>The disposal of Asbestos must be conducted by a service provider with certification in accordance to the National Enviromental Management Waste Act 2008 (Act No. 59 of 2008) and its Regulations (Regulation 21 (a) (i)) of the Asbestos Regulations provided in the OHS Act 85 of 1993 (as amended)</u>					
70	Corrugated iron roof covering	m2	1	30.00	28.70
71	Timber purlins	m	1	10.00	9.00
72	Concrete roof tiling	m2	1	38.00	38.00
73	Asbestos	m2	1	32.00	32.00

74	Timber battens	m	1	10.00	10.00
75	Timber trusses	No	1	395.00	395.00
76	Eaves soffit covering	m2	1	62.00	62.00
77	Fascia boards	m	1	25.00	25.00
78	Barge boards	m	1	25.00	25.00
79	Gutters	m	1	25.00	25.00
80	Box gutter	No	1	30.00	30.00
81	Rainwater pipes	m	1	25.00	25.00
82	Pitched corrugated iron roof including roof covering, timber trusses and purlins, ceilings and cornices, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes	m2	1	4,306.00	4,306.00
83	Gypsum (rhinoboard) ceilings	m2	1	30.00	30.00
84	Cornices	m	1	18.00	18.00
85	Timber brander, etc	m	1	25.00	25.00
86	Suspended ceilings including suspension grid, hangers, etc	m2	1	30.00	30.00
87	Drywall partitioning 2.7m high including all fittings, etc	m	1	72.00	72.00
88	Tongued and grooved timber suspended floors, joists, bearers, etc	m2	1	30.00	30.00
89	Remove damaged timber boards on suspended timber floor/stage, supply & install new as before including all fittings and make good on completion	m2	1	925.00	925.00
90	Skirting	m	1	15.00	15.00
<u>Taking out and removing sundry joinery work, setting aside for re-use and later refixing in new position</u>					
91	Timber cornices from brickwork	m	1	10.00	10.00
92	Timber skirtings from brickwork	m	1	10.00	10.00
92	Timber sills from brickwork	m	1	10.00	10.00
<u>Taking out and removing joinery fittings etc</u>					
93	Timber wall cupboard not exceeding 1000 x 450 x 900mm high	No	1	115.00	115.00
94	Timber wall cupboard exceeding 1000 x 450 x 900mm high	No	1	226.00	226.00
95	Timber floor cupboard not exceeding 1000 x 450 x 900mm high	No	1	115.00	115.00
96	Timber floor cupboard exceeding 1000 x 450 x 900mm high	No	1	226.00	226.00
97	Timber sink cupboard 1800 x 600 x 900mm high including disconnecting waste pipe (new trap and connecting to new waste pipe elsewhere)	No	1	115.00	115.00
98	Counter not exceeding 1000 x 450 x 900mm high	No	1	115.00	115.00
99	Counter exceeding 1000 x 450 x 900mm high	No	1	226.00	226.00
100	Shelving not exceeding 1000 x 450 x 900mm high	No	1	115.00	115.00
101	Shelving exceeding 1000 x 450 x 900mm high	No	1	226.00	226.00
<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>					
102	Wood block floor covering	m2	1	65.00	65.00
103	Vinyl tile floor covering including preparing screed for new vinyl floor covering	m2	1	35.00	35.00
104	Vinyl sheet floor covering with welded joints including preparing screed for new vinyl floor covering	m2	1	35.00	35.00
105	Carpet tile floor covering including preparing screed for new carpeting	m2	1	30.00	30.00
106	Rubber floor covering	m2	1	40.00	40.00
<u>Taking out and removing ironmongery</u>					
107	Mortice lock set from timber door	No	1	113.00	113.00
108	Towel rail not exceeding 1000mm long	No	1	113.00	113.00

109	Toilet paper holder	No	1	113.00	113.00
110	Hat and coat hook	No	1	113.00	113.00
111	Window handle	No	1	15.00	15.00
112	Window latch	No	1	15.00	15.00
<u>Taking out/off and removing sundry metalwork</u>					
113	Steel pipe handrail from walls including making good plaster finish	m	1	47.00	47.00
114	Steel balustrade not exceeding 1000mm high including making good granolithic finish	m	1	94.00	94.00
115	Steel staircase comprising two flights of stairs and one landing 1000 x 1000mm overall on plan and rising 3000mm including supporting columns, balustrade, etc	No	1	906.00	906.00
116	Steel wire mesh burglar proofing with framing not exceeding 1000 x 1000mm high bolted to brickwork and making good face brickwork	No	1	122.00	122.00
117	Steel wire mesh burglar proofing with framing exceeding 1000 x 1000mm high bolted to brickwork and making good face brickwork	No	1	282.00	282.00
118	Steel burglar proofing with framing not exceeding 1000 x 1000mm high bolted to brickwork and making good face brickwork	No	1	225.00	225.00
119	Steel burglar proofing with framing exceeding 1000 x 1000mm high bolted to brickwork and making good face brickwork	No	1	282.00	282.00
120	Stormwater Grating not exceeding 450 mm wide	No	1	169.00	169.00
121	Stormwater Grating exceeding 450 mm wide	No	1	226.00	226.00
122	Padestrian gate	No	1	338.00	338.00
123	Vehicle gate	No	1	959.00	959.00
124	Take down and remove existing damaged diamond mesh fencing	m2	1	226.00	226.00
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>					
125	25mm Granolithic from floors	m2	1	34.00	34.00
126	25mm Granolithic from treads and risers of stairs	m2	1	34.00	34.00
127	Granolithic skirting 70mm high	m	1	17.00	17.00
128	25mm Screed from floors	m2	1	34.00	34.00
129	25mm Screed from floors including ceramic tile floor covering	m2	1	34.00	34.00
130	Internal plaster from walls and columns	m2	1	28.00	28.00
131	Internal plaster from ceilings and beams	m2	1	28.00	28.00
132	External plaster from walls, columns and beams	m2	1	28.00	28.00
<u>Hacking up/off and removing ceramic tile floor, etc and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>					
133	300 x 300mm Tiles to floors	m2	1	34.00	34.00
134	400 x 400mm Tiles to floors	m2	1	39.00	39.00
135	Mosaic tiles to floors	m2	1	34.00	34.00
136	300 x 300mm Tiles to treads and risers of stairs	m2	1	34.00	34.00
137	200 x 250mm Tiles to walls	m2	1	34.00	34.00
138	Tile skirting 70mm high	m	1	17.00	17.00
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>					
139	22mm PVC piping including fittings and brackets	m	1	10.00	10.00
140	Ditto 50mm	m	1	15.00	15.00
141	Ditto 110mm	m	1	17.00	17.00

142	Ditto 160mm	m	1	23.00	23.00
143	100mm Cast iron piping including fittings and brackets	m	1	15.00	15.00
144	22mm Copper piping including fittings and brackets	m	1	9.00	9.00
145	Stainless steel wash hand basin	No	1	338.00	338.00
146	Stainless steel sink and drainer on timber cupboard 1800 x 600 X 900mm high	No	1	338.00	338.00
147	Vitreous china wash hand basin	No	1	338.00	338.00
148	Vitreous china WC pan with cistern	No	1	338.00	338.00
149	Vitreous china WC pan with flush valve	No	1	338.00	338.00
150	Vitreous china wall hung urinal with flush valve	No	1	338.00	338.00
151	Stainless steel urinal 2100 x 1500mm high including breaking up and removing 250mm wide concrete urinal step	No	1	451.00	451.00
152	Geyser	No	1	338.00	338.00
	<u>Taking out and removing glass and mirrors</u>				
153	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	1	34.00	34.00
154	Glass from timber windows with beads including cleaning out rebates and preparing for new glass	m2	1	34.00	34.00
155	Mirror not exceeding 1m2 high from wall including making good on wall	No	1	56.00	56.00
156	Mirror exceeding 1m2 high from wall including making good on wall	No	1	271.00	271.00
	<u>CUTTING THROUGH FLOORS AND CEILINGS</u>				
	<u>Cutting Through floors and ceilings</u>				
157	Cutting through 75mm thick concrete surface bed for 400mm wide concrete wall footing including making good concrete on both sides of new half brick wall	m	1	110.00	110.00
158	Chase out cracks in top of concrete surface bed to form groove 100mm wide x 50 mm deep and fill with 1:4 cement mortar including finishing smooth with a steel trowel to match existing levels	m	1	62.00	62.00
159	Cutting through gypsum ceiling and brander for half brick wall including making good on both sides of wall (new cornices elsewhere)	m	1	13.00	13.00
	<u>BUILDING UP OPENINGS</u>				
	<u>Brickwork in NFP bricks in class II mortar in building up openings</u>				
160	Half brick walls	m2	1	371.00	371.00
161	One brick walls	m2	1	738.00	738.00
162	280mm Hollow walls of two half brick skins including wire ties	m2	1	747.00	747.00
	<u>Sundries</u>				
163	Cutting toothings and bonding new brickwork to existing	m2	1	47.00	47.00
	<u>"Corobrik Agate Travertine Imperial FBX" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>				
164	Extra over brickwork for face brickwork in patches	m2	1	400.00	400.00
165	230mm Wide brick-on-edge header course sill set sloping and slightly projecting	m	1	116.00	116.00
166	Cutting toothings and bonding new face brickwork to existing	m	1	47.00	47.00
	<u>"Corobrik Roan Satin Imperial FBX" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>				
167	Extra over brickwork for face brickwork in patches	m2	1	400.00	400.00
168	230mm Wide brick-on-edge header course sill set sloping and slightly projecting	m	1	116.00	116.00
169	Cutting toothings and bonding new face brickwork to existing	m	1	47.00	47.00
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>				
	<u>Preparatory work to existing surfaces</u>				
170	Cutting out joints of existing brickwork to receive plaster	m2	1	47.00	47.00

171	Hacking face of existing concrete columns, beams, etc to receive plaster	m2	1	26.00	26.00
172	Hacking face of existing face brickwork to receive plaster	m2	1	47.00	47.00
173	Making good defects in existing screeded floors with "Pavelite"	m2	1	55.00	55.00
<u>MAKING GOOD OF FINISHES ETC</u>					
<u>Making good brickwork</u>					
174	Making good brickwork at end of half brick wall	m	1	45.00	45.00
175	Making good brickwork to face of wall where half brick cross wall removed	m	1	45.00	45.00
176	Making good face brickwork at end of half brick wall	m	1	45.00	45.00
177	Making good face brickwork to face of wall where half brick cross wall removed	m	1	45.00	45.00
178	Clean down existing face brickwork including removing all algae growth, fungi, surplus mortar, paint splashes, etc and rinse with clean water on completion	m2	1	17.00	17.00
179	Carefully rake out crumbling cement mortar from faced brickwork to a depth of 25mm and re-point with class 1 cement mortar with joints and perpend finished to match existing	m2	1	73.00	73.00
180	Chase out crack in plastered wall exceeding 10mm wide to form groove 100mm wide and re-plaster with one coat cement plaster including finishing smooth to match existing surface and texture	m	1	28.00	28.00
181	Clean out minor crack in plaster exceeding 5mm wide but not exceeding 10mm wide and fill with flexible crack filler including finishing off smooth to match existing surface	m	1	17.00	17.00
<u>Making good "Rhino" gypsum plasterboard ceilings and brndering</u>					
182	Ceilings in patches	m2	1	175.00	175.00
183	Ceilings where half brick walls removed	m	1	74.00	74.00
<u>Making good Floorflex vinyl floor tiles</u>					
184	Floors in patches	m2	1	206.00	206.00
185	Floors where partitions removed	m	1	64.00	64.00
186	Floors where half brick walls removed	m	1	64.00	64.00
	Making good untinted granolithic	H3	0		
187	Floors in patches	m2	1	133.00	133.00
188	Floors where partitions removed	m	1	51.00	51.00
189	Floors where half brick walls removed	m	1	51.00	51.00
<u>Making good to screed for Floorflex vinyl floor tiles</u>					
190	Floors in patches	m2	1	240.00	240.00
191	Floors where partitions removed	m	1	68.00	68.00
192	Floors where half brick walls removed	m	1	68.00	68.00
<u>Making good internal cement plaster</u>					
193	Walls in patches	m2	1	121.00	121.00
194	Walls where half brick walls removed	m	1	50.00	50.00
195	Concrete ceilings in patches	m2	1	120.00	120.00
<u>Making good internal two coat plaster with gypsum finish</u>					
196	Walls in patches	m2	1	157.00	157.00
197	Walls where half brick walls removed	m	1	53.00	53.00
198	Concrete ceilings in patches	m2	1	157.00	157.00
199	Concrete ceilings where 115mm brick walls removed	m	1	53.00	53.00
<u>Making good 250 x 250 x 5mm white glazed ceramic tiles</u>					
200	Walls in patches	m2	1	335.00	335.00

201	Walls where half brick walls removed	m	1	79.00	79.00
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>					
<u>Altering openings</u>					
202	Altering opening in one brick wall not exceeding 1000 x 1000mm high steel window removed to form opening for new single door and frame 900 x 2100mm high, overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel/bricklintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with Concrete with quarry tile finish to threshold (new door and frame and making good paintwork elsewhere)	No	1	1,883.00	1,883.00
203	Altering opening in one brick wall exceeding 1000 x 1000mm high steel window removed to form opening for new single door and frame 900 x 2100mm high, overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel/bricklintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with Concrete with quarry tile finish to threshold (new door and frame and making good paintwork elsewhere)	No	1	2,545.00	2,545.00
204	Altering opening in one brick wall not exceeding 1000 x 1000mm high steel window removed to form opening for new double door and frame 1600 x 2100mm high, overall by breaking out brickwork on both sides and bottom including necessary precast concrete lintel/bricklintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with Concrete with quarry tile finish to threshold (new door and frame and making good paintwork elsewhere)	No	1	2,545.00	2,545.00
<u>Breaking out for and forming plain openings through brick walls including necessary precast concrete lintels and making good plaster on both sides and into reveals and with Concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>					
205	Opening 900 x 2100mm high through half brick wall	No	1	850.00	850.00
206	Opening for door with timber frame 900 x 2100mm high overall through half brick wall	No	1	850.00	850.00
207	Opening for door with steel frame 900 x 2100mm high overall through half brick wall	No	1	850.00	850.00
208	Opening 1600 x 2100mm high through half brick wall	No	1	1,629.00	1,629.00
209	Opening for door with steel frame 1600x 2100mm high overall through half brick wall	No	1	1,629.00	1,629.00
210	Opening for door with steel frame 1600x 2100mm high overall through half brick wall	No	1	1,629.00	1,629.00
<u>Breaking out for and forming openings through brick walls for new windows including necessary precast concrete lintels and making good plaster on both sides and into reveals and with sloping concrete sill on outside and flat tile sill on inside (new windows and making good paintwork elsewhere)</u>					
211	Opening for window not exceeding 1000 x 1000mm high through one brick wall	No	1	865.00	865.00
212	Opening for window exceeding 1000x 1000mm high through one brick wall	No	1	1,731.00	1,731.00
213	Opening for window 1500 x 1600mm high through 280mm hollow wall of two half brick skins including building 50mm cavity solid with brickwork in NFP bricks in class II mortar	No	1	1,699.00	1,699.00
<u>WORK TO EXISTING</u>					
<u>Resecure existing</u>					
214	Resecure existing corrugated iron or fibre reinforced cement roof sheeting with new roofing screws including sealing old holes in roof sheeting with "Sealoflex" sealing system, as necessary and leave completely waterproof on completion	m2	1	65.00	65.00
215	Resecure existing concrete roofing tiles with galvanised mild steel roofing nails in accordance with the manufacturer's instructions, including all labours, etc and leave completely waterproof on completion	No	1	15.00	15.00
216	Resecure existing corrugated iron or fibre reinforced cement ridge capping with new roofing screws including sealing old holes in capping with "Sealoflex" sealing system as necessary	m	1	20.00	20.00
217	Resecure loose fibre reinforced cement or timber fascia or barge including removal, trimming back of roof timber where necessary and fixing in position with new fixing screws	m	1	40.00	40.00
218	Resecure loose eaves gutters and downpipes including fixing new brackets where necessary and making good holes in fascias and walls	m	1	40.00	40.00
<u>Cleaning and Sanitising of Areas</u>					
219	Clean down existing concrete roof tiles including removing all algae growth, etc and wash down with clean water on completion	m2	1	25.00	25.00
220	Clean out debris from gutters, downpipes and valley gutters including removing all algae growth, etc and flush out with clean water on completion	m	1	20.00	20.00
221	Pressure clean walls by removing all algae growth, etc and wash down with clean water on completion, etc	m2	1	20.00	20.00

222	Pressure clean existing concrete hard surface and leave completely clean on completion	m2	1	10.00	10.00
223	Clean out solid ablutions or other internal areas, disinfect, sanitise as necessary and prepare for renovation work (Area of buildings measured on plan or on site)	m2	1	293.00	293.00
224	Allowing for the extermination of rodents and other pests within and around buildings where instructed using approved chemical poisons, traps, etc including safeguarding of the same from tampering by children (Area of building measured on plan or on site)	m2	1	51.00	51.00
225	Fumigation of all insects ie, mosquitos, bees	m2	1	51.00	51.00
<u>Built-in cupboards</u>					
226	Take down and remove timber shelving	m2	1	287.00	287.00
227	Supply and install timber shelving including all necessary fittings	m2	1	770.00	770.00
228	Take down and remove timber bearers from walls and replace with 19 x 44 mm wrought softwood bearers plugged and screwed to new holes in brickwork	m	1	28.00	28.00
229	Take down and remove cupboard door size 610 x 2032 mm and replace with new semi-solid core flush panel door with hardboard veneer both sides and hardwood strips all round, finished with one coat primer, one under coat and two coats gloss enamel paint including fitting with "Union 5174SC" locking cupboard latch	No	1	1,240.00	1,240.00
<u>Pinning boards</u>					
230	Take down pinning board, replace soft board with new 16 mm softboard finished one side with two coats PVA internal quality emulsion paint, in existing frame refix framing to walls in original position	m2	1	2,250.00	2,250.00
231	Prepare and apply one coat PVA internal quality emulsion painted softboard pinning boards	m2	1	62.00	62.00
232	Prepare and apply polyurethane matt varnish on existing varnished timber framing not exceeding 300 mm girth	m	1	28.00	28.00
<u>Chalkboards</u>					
233	Take down and remove damaged chalkboard and framing	m2	1	150.00	150.00
234	Take down and remove damaged section of chalkboard size 2400 mm wide x 1200 mm high and replace with new 6 mm tempered and masonite boarding fixed to existing framing including priming and applying two coats matt finish chalkboard paint masonite	No	1	1,015.00	1,015.00
<u>Benches</u>					
235	Prepare and apply one coat polyurethane matt varnish on existing varnished timber slatted bench	m2	1	57.00	57.00
236	Take off and remove timber slat from slatted bench and replace with 22 x 69 mm wrought meranti slat fixed to steel bearers as previously described and finish with two coats polyurethane matt varnish	m	1	977.00	977.00
<u>Kitchen fittings</u>					
237	Take off and remove continuous worktop from kitchen fittings and replace with new 19 mm Formica veneered continuous worktop fixed to the cabinet below	m2	1	1,070.00	1,070.00
238	Take out and remove steel base unit complete replace with new steel base unit including fixing under existing continuous worktops	m2	1	1,946.00	1,946.00
<u>Fittings generally</u>					
239	Overhaul, adjust and service existing timber cupboard door to timber fiber frame, make good as necessary and redecorate door and frame with two coats gloss enamel paint	m2	1	338.00	338.00
240	Ditto but including new brass hasp staple	No	1	547.00	547.00
241	Clean down remove all dirty grease, wax ect and prepare and apply one coat polyurethane matt varnish on general surfaces existing varnished timber fittings	m2	1	102.00	102.00
242	Ditto but one coat gloss enamel paint on general surfaces on existing enamel painted fittings	m2	1	102.00	102.00
243	Ditto but one coat gloss enamel paint on general surfaces of existing enamel painted metal fittings	m2	1	102.00	102.00
<u>Coring in concrete slab (100 to 200 diameter)</u>					
244	50 to 100 mm thick concrete slab	No	1	2,256.00	2,256.00
245	100 to 200 mm thick concrete slab	No	1	3,948.00	3,948.00
246	200 to 300 mm thick concrete slab	No	1	5,076.00	5,076.00
247	300 to 400 mm thick concrete slab	No	1	6,204.00	6,204.00
Carried to Final Summary				R	135,375.90

BILL NO. 3**EARTHWORKS (PROVISIONAL)****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Nature of material to be excavated:

The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock".

Carting away of excavated material:

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.

Dewatering of excavations:

The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water

Density testing on filling:

Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.

Imported fill:

"Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"

SITE CLEARANCE**Site clearance etc:**

1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	1	28.00	28.00
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	1	34.00	34.00
3	Stripping average 250mm thick layer of top soil and stockpiling on site	m2	1	56.00	56.00
REMOVAL OF TREES ETC					
Taking out and removing, grubbing up roots and filling in holes					
4	Tree stump exceeding 200mm and not exceeding 500mm girth	No	1	3,948.00	3,948.00
5	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	1	6,542.40	6,542.40
6	Tree stump exceeding 1000mm and not exceeding 1500mm girth	No	1	9,419.00	9,419.00
Cutting down and removing, grubbing up roots and filling in holes					
7	Hedge not exceeding 1500mm high	m	1	508.00	508.00
8	Hedge exceeding 1500mm and not exceeding 2000mm high	m	1	677.00	677.00
BULK EXCAVATION, FILLING ETC					
Open face excavation in earth to reduce levels "cut to fill"					
9	Open face excavation to reduce levels "cut to fill"	m3	1	56.00	56.00
Excavation in earth for basement					
10	Not exceeding 2m deep	m3	1	123.00	123.00

11	Exceeding 2m and not exceeding 4m deep	m3	1	226.00	226.00
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u>				
12	Not exceeding 500mm deep for placing and removing formwork to walls etc 1500mm away from excavated face	m3	1	226.00	226.00
17	Exceeding 2m and not exceeding 4m deep for placing and removing formwork to walls etc 1500mm away from excavated face	m3	1	282.00	282.00
18	Not exceeding 500mm deep for placing and removing formwork to walls etc and building brick lining 1500mm away from excavated face	m3	1	338.00	338.00
	<u>Extra over bulk excavation in earth for excavation in;</u>				
21	Soft rock	m3	1	338.00	338.00
22	Hard rock	m3	1	902.00	902.00
23	Class A boulder	m3	1	1,354.00	1,354.00
24	Class B boulder	m3	1	1,579.00	1,579.00
	<u>Risk of collapse of excavations</u>				
37	Sides of bulk excavations not exceeding 1,5m deep	m2	1	85.00	85.00
38	Sides of bulk excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	1	169.00	169.00
	<u>Keeping excavations free of water</u>				
39	Keeping excavations free of water	Item	1	2,820.00	2,820.00
	<u>EXCAVATION OTHER THAN BULK</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
40	Surface trenches.	m3	1	169.00	169.00
41	Ground beams	m3	1	169.00	169.00
42	Holes.	m3	1	169.00	169.00
43	Holes including working around piles	m3	1	169.00	169.00
44	Reduced levels under floors.	m3	1	169.00	169.00
45	Trenches and holes for thickening under surface beds etc	m3	1	169.00	169.00
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep:</u>				
46	Surface trenches.	m3	1	192.00	192.00
47	Basement	m3	1	192.00	192.00
48	Lift pit	m3	1	192.00	192.00
49	Swimming Pool	m3	1	192.00	192.00
50	Ground beams	m3	1	192.00	192.00
51	Holes.	m3	1	192.00	192.00
52	Holes including working around piles	m3	1	192.00	192.00
	<u>Excavation in earth not exceeding 2m deep below reduced level (reduced level exceeding 2m and not exceeding 4m below ground level)</u>				
53	To reduce levels to final levels under floors etc	m3	1	192.00	192.00
54	To remove sloping banks	m3	1	192.00	192.00
55	Lift Pit	m3	1	192.00	192.00
56	Trenches	m3	1	192.00	192.00
57	Holes	m3	1	192.00	192.00
	<u>Excavation in earth exceeding 2m and not exceeding 4m deep below reduced level (reduced level exceeding 4m and not exceeding 6m below ground level)</u>				

58	To reduce levels to final levels under floors etc	m3	1	192.00	192.00
59	To remove sloping banks	m3	1	192.00	192.00
60	Lift pit	m3	1	192.00	192.00
61	Trenches	m3	1	192.00	192.00
62	Holes	m3	1	192.00	192.00
<u>Excavation in earth not exceeding 2m deep within basement (basement level exceeding 2m and not exceeding 4m deep below ground level)</u>					
63	To reduce levels to final levels under floors etc	m3	1	192.00	192.00
64	To remove sloping banks	m3	1	192.00	192.00
65	Lift pit	m3	1	192.00	192.00
66	Trenches	m3	1	192.00	192.00
67	Holes	m3	1	192.00	192.00
<u>Excavation in earth exceeding 2m and not exceeding 4m deep within basement (basement level exceeding 4m and not exceeding 6m deep below ground level)</u>					
68	To reduce levels to final levels under floors etc	m3	1	192.00	192.00
69	To remove sloping banks	m3	1	192.00	192.00
70	Lift pit	m3	1	192.00	192.00
71	Trenches	m3	1	192.00	192.00
72	Holes	m3	1	192.00	192.00
73	Holes including working around piles	m3	1	192.00	192.00
74	Trenches and holes for thickening under surface beds etc	m3	1	192.00	192.00
<u>Extra over all excavations for carting away:</u>					
89	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	1	226.00	226.00
90	Surplus material from excavations and/or stock piles on site to a dumping site situated approximately 10km from the building site	m3	1	282.00	282.00
<u>Risk of collapse of excavations:</u>					
91	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	1	96.00	96.00
92	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding 3,0m deep	m2	1	152.00	152.00
<u>Keeping excavations free of water:</u>					
93	Keeping excavations free from mud and all water including subterranean sources.	Item	1	2,820.00	2,820.00
<u>EARTH FILLING, ETC.</u>					
<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u>					
94	Backfilling to trenches, holes, etc.	m3	1	85.00	85.00
95	Under floors, steps, pavings, etc.	m3	1	85.00	85.00
<u>Earth filling obtained from the excavations (not compacted)</u>					
96	In prescribed stock piles on site	m3	1	85.00	85.00
<u>Earth filling obtained from the excavations including haulage approximately 50m from perimeter of excavations (not compacted)</u>					
97	In prescribed stock piles on site	m3	1	68.00	68.00
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site (not compacted)</u>					
98	Over site	m3	1	68.00	68.00
99	Over site to form platforms	m3	1	68.00	68.00
<u>Earth filling (G5 material) supplied by the contractor compacted to 95% Mod AASHTO density:</u>					

100	Under floors, steps, pavings, etc.	m3	1	564.00	564.00
	<u>Coarse river sand filling supplied by the contractor:</u>				
101	Under floors etc. (Provisional).	m3	1	508.00	508.00
	<u>Compaction of surfaces:</u>				
102	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	1	56.00	56.00
103	Compaction of ground surface under floors etc including scarifying for a depth of 250mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1	68.00	68.00
104	Compaction of ground surface under floors etc by wetting and compacting with 3 passes of a 10 ton vibratory roller	m2	1	85.00	85.00
	<u>Additional tests required by the engineer</u>				
105	In-situ dry density test in accordance with method A10(b) of TMH1	No	1	790.00	790.00
106	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	1	790.00	790.00
107	CBR test in accordance with method A8 of TMH1	No	1	790.00	790.00
108	Surface bed compaction tests to 95% & 98% MOD AASHTO density	No	1	790.00	790.00
109	Natural California Bearing Ratio test	No	1	790.00	790.00
	<u>SOIL POISONING</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>				
110	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	1	51.00	51.00
111	To bottoms and sides of trenches, holes, etc.	m2	1	51.00	51.00
	Carried to Final Summary			R	45,660.40

BILL NO. 4**CONCRETE, FORMWORK AND REINFORCEMENT****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Cost of tests:

The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).

Formwork:

Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.

Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the Engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in Earthworks.

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**15Mpa/19mm Concrete**

1	Surface blinding under footings and bases.	m3	1	1,934.00	1,934.00
2	Strip Footings	m3	1	1,934.00	1,934.00
3	Surface beds	m3	1	1,934.00	1,934.00
4	Surface beds on waterproofing	m3	1	1,934.00	1,934.00
5	Surface beds cast in panels on waterproofing	m3	1	1,934.00	1,934.00
6	Pavings	m3	1	1,934.00	1,934.00
7	Pavings cast in panels	m3	1	1,934.00	1,934.00
8	Ramps	m3	1	1,934.00	1,934.00
9	Bottoms and sides of floor ducts	m3	1	1,934.00	1,934.00
10	Machine bases	m3	1	1,934.00	1,934.00
11	Steps, urinal steps, cupboard platforms, etc	m3	1	1,934.00	1,934.00

20Mpa/19mm Concrete

12	In aprons.	m3	1	1,985.00	1,985.00
13	Surface blinding under surface beds	m3	1	1,985.00	1,985.00
14	Surface blinding under footings and bases	m3	1	1,985.00	1,985.00
15	Strip Footings	m3	1	1,985.00	1,985.00
16	Surface beds	m3	1	1,985.00	1,985.00
17	Surface beds on waterproofing	m3	1	1,985.00	1,985.00

18	Surface beds cast in panels	m3	1	1,985.00	1,985.00
19	Surface beds cast in panels on waterproofing	m3	1	1,985.00	1,985.00
20	Filling to Cavity walls.	m3	1	1,985.00	1,985.00
21	Pavings	m3	1	1,985.00	1,985.00
22	Pavings cast in panels	m3	1	1,985.00	1,985.00
23	Ramps	m3	1	1,985.00	1,985.00
24	Bottoms and sides of floor ducts	m3	1	2,138.00	2,138.00
25	Machine bases	m3	1	2,138.00	2,138.00
26	Steps, urinal steps, cupboard platforms, etc	m3	1	2,138.00	2,138.00
27	In manhole rings.	m3	1	2,138.00	2,138.00
	<u>25Mpa/10mm Concrete</u>				
28	Surface blinding under surface beds	m3	1	2,369.00	2,369.00
29	Surface blinding under footings and bases	m3	1	2,369.00	2,369.00
30	Strip footings	m3	1	2,369.00	2,369.00
31	Surface beds	m3	1	2,369.00	2,369.00
32	Surface beds on waterproofing	m3	1	2,369.00	2,369.00
33	Surface beds cast in panels	m3	1	2,369.00	2,369.00
34	Pavings	m3	1	2,369.00	2,369.00
35	Pavings cast in panels	m3	1	2,369.00	2,369.00
36	Ramps	m3	1	2,369.00	2,369.00
37	Surface beds cast in panels on waterproofing.	m3	1	2,369.00	2,369.00
38	Ramps cast in panels on waterproofing.	m3	1	2,369.00	2,369.00
39	Bottoms and sides of floor ducts	m3	1	2,369.00	2,369.00
40	Machine bases	m3	1	2,369.00	2,369.00
41	Steps, urinal steps, cupboard platforms, etc	m3	1	2,369.00	2,369.00
42	Stairs, steps including landings, beams on water proofing.	m3	1	2,369.00	2,369.00
	<u>30MPa/19mm concrete</u>				
43	Surface blinding under surface beds	m3	1	2,425.00	2,425.00
44	Surface blinding under footings and bases	m3	1	2,425.00	2,425.00
45	Strip footings	m3	1	2,425.00	2,425.00
46	Surface beds	m3	1	2,425.00	2,425.00
47	Surface beds on waterproofing	m3	1	2,425.00	2,425.00
48	Surface beds cast in panels	m3	1	2,425.00	2,425.00
49	Surface beds cast in panels on waterproofing	m3	1	2,425.00	2,425.00
50	Pavings	m3	1	2,482.00	2,482.00
51	Pavings cast in panels	m3	1	2,482.00	2,482.00
52	Ramps	m3	1	2,482.00	2,482.00
53	Bottoms and sides of floor ducts	m3	1	2,482.00	2,482.00
54	Machine bases	m3	1	2,482.00	2,482.00
55	Steps, urinal steps, cupboard platforms, etc	m3	1	2,482.00	2,482.00
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				

56	Strip footings	m3	1	1,934.00	1,934.00
57	Bases	m3	1	1,935.00	1,935.00
58	Pile caps	m3	1	1,934.00	1,934.00
59	Foundation beams	m3	1	1,934.00	1,934.00
	<u>20MPa/19mm concrete</u>				
60	Strip footings	m3	1	1,934.00	1,934.00
61	Bases	m3	1	1,985.00	1,985.00
62	Pile caps	m3	1	1,985.00	1,985.00
63	Foundation beams	m3	1	1,985.00	1,985.00
	<u>25MPa / 19mm concrete:</u>				
64	Strip footings	m3	1	2,312.00	2,312.00
65	Bases.	m3	1	2,312.00	2,312.00
66	Pile caps	m3	1	2,312.00	2,312.00
67	Foundation beams	m3	1	2,312.00	2,312.00
	<u>30MPa / 19mm concrete:</u>				
68	Strip footings	m3	1	2,425.00	2,425.00
69	Bases.	m3	1	2,425.00	2,425.00
70	Pile caps	m3	1	2,425.00	2,425.00
71	Foundation beams	m3	1	2,425.00	2,425.00
	<u>REINFORCED CONCRETE</u>				
	<u>15MPa/19mm concrete</u>				
72	Surface beds	m3	1	1,934.00	1,934.00
73	Surface beds on waterproofing	m3	1	1,934.00	1,934.00
74	Surface beds cast in panels	m3	1	1,934.00	1,934.00
75	Surface beds cast in panels on waterproofing	m3	1	1,934.00	1,934.00
76	Pavings	m3	1	1,934.00	1,934.00
77	Bottoms and sides of floor ducts	m	1	1,934.00	1,934.00
78	Slabs including beams and inverted beams	m3	1	1,934.00	1,934.00
79	Stepped slabs including beams and inverted beams	m3	1	1,934.00	1,934.00
80	Coffered slabs including beams and inverted beams	m3	1	1,934.00	1,934.00
81	Troughed slabs including beams and inverted beams	m3	1	1,934.00	1,934.00
82	Composite hollow block slabs including beams and inverted beams	m3	1	1,934.00	1,934.00
83	Composite prefabricated beam and trough slabs including beams and inverted beams	m3	1	1,934.00	1,934.00
84	Hood slabs	m3	1	1,934.00	1,934.00
85	Vanity slabs, cupboard slabs, cover slabs, etc	m3	1	1,934.00	1,934.00
86	Isolated beams	m3	1	1,934.00	1,934.00
87	Bottoms and sides of isolated gutter beams	m3	1	1,934.00	1,934.00
88	Lintels	m3	1	1,934.00	1,934.00
89	Stairs including landings, beams and inverted beams	m3	1	1,934.00	1,934.00
90	Retaining walls in foundations (Provisional)	m3	1	1,934.00	1,934.00
91	Retaining walls	m3	1	1,934.00	1,934.00
92	Walls in foundations (Provisional)	m3	1	1,934.00	1,934.00
93	Walls	m3	1	1,934.00	1,934.00
94	Balustrade walls	m3	1	1,934.00	1,934.00

95	Columns in foundations (Provisional)	m3	1	1,934.00	1,934.00
96	Columns	m3	1	1,934.00	1,934.00
	<u>20MPa/19mm concrete</u>				
97	Surface beds	m3	1	1,985.00	1,985.00
98	Surface beds on waterproofing	m3	1	1,985.00	1,985.00
99	Surface beds cast in panels	m3	1	1,985.00	1,985.00
100	Surface beds cast in panels on waterproofing	m3	1	1,985.00	1,985.00
101	Pavings	m3	1	1,985.00	1,985.00
102	Bottoms and sides of floor ducts	m	1	1,985.00	1,985.00
103	Slabs including beams and inverted beams	m3	1	1,985.00	1,985.00
104	Stepped slabs including beams and inverted beams	m3	1	2,138.00	2,138.00
105	Coffered slabs including beams and inverted beams	m3	1	2,138.00	2,138.00
106	Troughed slabs including beams and inverted beams	m3	1	2,138.00	2,138.00
107	Composite hollow block slabs including beams and inverted beams	m3	1	2,138.00	2,138.00
108	Composite prefabricated beam and trough slabs including beams and inverted beams	m3	1	2,138.00	2,138.00
109	Hood slabs	m3	1	2,138.00	2,138.00
110	Vanity slabs, cupboard slabs, cover slabs, etc	m3	1	2,138.00	2,138.00
111	Isolated beams	m3	1	2,138.00	2,138.00
112	Bottoms and sides of isolated gutter beams	m3	1	2,138.00	2,138.00
113	Lintels	m3	1	2,138.00	2,138.00
114	Stairs including landings, beams and inverted beams	m3	1	2,138.00	2,138.00
115	Retaining walls in foundations (Provisional)	m3	1	2,138.00	2,138.00
116	Retaining walls	m3	1	2,138.00	2,138.00
117	Walls in foundations (Provisional)	m3	1	2,138.00	2,138.00
118	Walls	m3	1	2,138.00	2,138.00
119	Balustrade walls	m3	1	2,138.00	2,138.00
120	Columns in foundations (Provisional)	m3	1	2,138.00	2,138.00
121	Columns	m3	1	2,138.00	2,138.00
	<u>25 MPa/ 19mm concrete:</u>				
122	Surface beds	m3	1	2,312.00	2,312.00
123	Surface beds on waterproofing	m3	1	2,312.00	2,312.00
124	Surface beds cast in panels	m3	1	2,312.00	2,312.00
125	Surface beds cast in panels on waterproofing	m3	1	2,312.00	2,312.00
126	Pavings	m3	1	2,369.00	2,369.00
127	Bottoms and sides of floor ducts	m	1	2,369.00	2,369.00
128	Slabs including beams and inverted beams	m3	1	2,369.00	2,369.00
129	Stepped slabs including beams and inverted beams	m3	1	2,369.00	2,369.00
130	Coffered slabs including beams and inverted beams	m3	1	2,369.00	2,369.00
131	Troughed slabs including beams and inverted beams	m3	1	2,369.00	2,369.00

132	Composite hollow block slabs including beams and inverted beams	m3	1	2,369.00	2,369.00
133	Composite prefabricated beam and trough slabs including beams and inverted beams	m3	1	2,369.00	2,369.00
134	Hood slabs	m3	1	2,369.00	2,369.00
135	Vanity slabs, cupboard slabs, cover slabs, etc	m3	1	2,369.00	2,369.00
136	Isolated beams	m3	1	2,369.00	2,369.00
137	Bottoms and sides of isolated gutter beams	m3	1	2,369.00	2,369.00
138	Lintels	m3	1	2,369.00	2,369.00
139	Stairs including landings, beams and inverted beams	m3	1	2,369.00	2,369.00
140	Retaining walls in foundations (Provisional)	m3	1	2,369.00	2,369.00
141	Retaining walls	m3	1	2,369.00	2,369.00
142	Walls in foundations (Provisional)	m3	1	2,369.00	2,369.00
143	Walls	m3	1	2,369.00	2,369.00
144	Balustrade walls	m3	1	2,369.00	2,369.00
145	Columns in foundations (Provisional)	m3	1	2,369.00	2,369.00
146	Columns	m3	1	2,369.00	2,369.00
	<u>30MPa/19mm concrete:</u>				
147	Surface beds	m3	1	2,312.00	2,312.00
148	Surface beds on waterproofing	m3	1	2,312.00	2,312.00
149	Surface beds cast in panels	m3	1	2,312.00	2,312.00
150	Surface beds cast in panels on waterproofing	m3	1	2,312.00	2,312.00
151	Pavings	m3	1	2,312.00	2,312.00
152	Bottoms and sides of floor ducts	m	1	2,482.00	2,482.00
153	Slabs including beams and inverted beams	m3	1	2,482.00	2,482.00
154	Stepped slabs including beams and inverted beams	m3	1	2,482.00	2,482.00
155	Coffered slabs including beams and inverted beams	m3	1	2,482.00	2,482.00
156	Troughed slabs including beams and inverted beams	m3	1	2,482.00	2,482.00
157	Composite hollow block slabs including beams and inverted beams	m3	1	2,482.00	2,482.00
158	Composite prefabricated beam and trough slabs including beams and inverted beams	m3	1	2,482.00	2,482.00
159	Hood slabs	m3	1	2,482.00	2,482.00
160	Vanity slabs, cupboard slabs, cover slabs, etc	m3	1	2,482.00	2,482.00
161	Isolated beams	m3	1	2,482.00	2,482.00
162	Bottoms and sides of isolated gutter beams	m3	1	2,482.00	2,482.00
163	Lintels	m3	1	2,482.00	2,482.00
164	Stairs including landings, beams and inverted beams	m3	1	2,482.00	2,482.00
165	Retaining walls in foundations (Provisional)	m3	1	2,482.00	2,482.00
166	Retaining walls	m3	1	2,482.00	2,482.00
167	Walls in foundations (Provisional)	m3	1	2,482.00	2,482.00
168	Walls	m3	1	2,482.00	2,482.00
169	Balustrade walls	m3	1	2,482.00	2,482.00
170	Columns in foundations (Provisional)	m3	1	2,482.00	2,482.00
171	Columns	m3	1	2,482.00	2,482.00
	<u>35MPa/20mm concrete:</u>				
172	Footings	m3	1	2,764.00	2,764.00
173	Columns.	m3	1	2,764.00	2,764.00

	<u>TEST BLOCKS</u>				
	<u>Test blocks:</u>				
174	Making and testing set of three 150x150x150mm concrete strength test cubes (Provisional).	No	1	846.00	846.00
	<u>FINISHING TOP SURFACE OF CONCRETE</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float including non-slip:</u>				
175	Aprons	m2	1	45.00	45.00
176	Surface beds, slabs, etc	m2	1	45.00	45.00
177	Surface beds, slabs, etc to falls	m2	1	45.00	45.00
178	Surface beds, slabs, etc to falls and currents	m2	1	45.00	45.00
179	Paving to falls	m2	1	45.00	45.00
180	Paving to falls and currents	m2	1	45.00	45.00
181	Tops of beams, walls, etc	m2	1	45.00	45.00
182	Sloping and splayed tops of beams, walls, etc	m2	1	45.00	45.00

183	Ramps to falls	m2	1	45.00	45.00
	Finishing top surfaces of concrete smooth with a steel trowel				
184	Surface beds, slabs, etc	m2	1	45.00	45.00
185	Surface beds, slabs, etc to falls	m2	1	45.00	45.00
186	Surface beds, slabs, etc to falls and currents	m2	1	45.00	45.00
187	Paving to falls	m2	1	45.00	45.00
188	Paving to falls and currents	m2	1	45.00	45.00
189	Tops of beams, walls, etc	m2	1	45.00	45.00
190	Sloping and splayed tops of beams, walls, etc	m2	1	45.00	45.00
	<u>Finishing top surfaces of concrete smooth with a power float:</u>				
191	Surface beds, slabs, etc	m2	1	45.00	45.00
192	Surface beds, slabs, etc to falls	m2	1	45.00	45.00
193	Surface beds, slabs, etc to falls and currents	m2	1	45.00	45.00
194	Paving to falls	m2	1	45.00	45.00
195	Paving to falls and currents	m2	1	45.00	45.00
196	Tops of beams, walls, etc	m2	1	45.00	45.00
197	Sloping and splayed tops of beams, walls, etc	m2	1	45.00	45.00
	<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface</u>				
198	Surface beds, slabs, etc	m2	1	45.00	45.00
199	Surface beds, slabs, etc to falls	m2	1	45.00	45.00
200	Surface beds, slabs, etc to falls and currents	m2	1	45.00	45.00
201	Paving to falls	m2	1	45.00	45.00
202	Paving to falls and currents	m2	1	45.00	45.00
203	Tops of beams, walls, etc	m2	1	45.00	45.00
204	Sloping and splayed tops of beams, walls, etc	m2	1	45.00	45.00
	<u>Finishing top surfaces of concrete smooth with a power float with duracure hardener added (0.16L/m²) and curing.</u>				
205	Surface beds, slabs, etc	m2	1	45.00	45.00
206	Surface beds, slabs, etc to falls	m2	1	45.00	45.00
207	Surface beds, slabs, etc to falls and currents	m2	1	45.00	45.00
208	Paving to falls	m2	1	45.00	45.00
209	Paving to falls and currents	m2	1	45.00	45.00
210	Tops of beams, walls, etc	m2	1	45.00	45.00
211	Sloping and splayed tops of beams, walls, etc	m2	1	45.00	45.00
	<u>Wire brushing of concrete surfaces to expose aggregate Sandblasting of concrete surfaces to expose aggregate Bush-hammering of concrete surfaces to expose aggregate</u>				
212	Sides of walls	m2	1	45.00	45.00
213	Sides of columns	m2	1	45.00	45.00
214	Soffits of slabs	m2	1	45.00	45.00
215	Sides and soffits of beams	m2	1	45.00	45.00
	<u>Grooves, channels, mortices, sinkings, etc in concrete</u>				
216	100 x 50mm Groove in top of concrete	m	1	45.00	45.00

217	100 x 50mm Channel in top of concrete	m	1	45.00	45.00
218	10mm x Average 50mm segmental channel in top of concrete	m	1	45.00	45.00
219	Mortice in top, side, etc of concrete not exceeding 150mm deep	No	1	45.00	45.00
220	500 x 500 x 50mm Sinking in top of concrete	No	1	45.00	45.00
<u>A.B.E Duragrout non-shrink grout or equal similar Architect approved</u>					
221	Filling to small openings in slabs, including scabbling edges of slabs around openings	m3	1	2,138.00	2,138.00
222	Bedding not exceeding 25mm thick under base plates on top of concrete beam, column or base, including working around holding down bolts and chamfered edges all round	m2	1	532.00	532.00
223	Bedding not exceeding 25mm thick behind wall plates to sides of beams, etc including working around holding down bolts, chamfered edges all round and any necessary formwork	m2	1	451.00	451.00
224	Bedding approximately 50mm thick under 200 x 400mm base plate including chamfered edges all round	No	1	123.00	123.00
<u>CONCRETE SUNDRIES</u>					
<u>Drilled holes</u>					
240	Drill 25mm diameter hole through reinforced concrete not exceeding 100mm thick	No	1	23.00	23.00
241	Drill 25mm diameter hole through reinforced concrete exceeding 100mm and not exceeding 200mm thick	No	1	34.00	34.00
242	Drill 25mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	45.00	45.00
243	Drill 50mm diameter hole through reinforced concrete not exceeding 100mm thick	No	1	56.00	56.00
244	Drill 50mm diameter hole through reinforced concrete exceeding 100mm and not exceeding 200mm thick	No	1	76.00	76.00
245	Drill 50mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	113.00	113.00
246	Drill 75mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	135.00	135.00
247	Drill 100mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	170.00	170.00
248	Drill 150mm diameter hole through reinforced concrete exceeding 100mm and not exceeding 200mm thick	No	1	227.00	227.00
249	Drill 150mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	227.00	227.00
250	Drill 150mm diameter hole through reinforced concrete exceeding 300mm and not exceeding 400mm thick	No	1	227.00	227.00
251	Drill 200mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	227.00	227.00
252	Drill 200mm diameter hole through reinforced concrete exceeding 300mm and not exceeding 400mm thick	No	1	227.00	227.00
253	Drill 300mm diameter hole through reinforced concrete exceeding 200mm and not exceeding 300mm thick	No	1	227.00	227.00
<u>HOLLOW BLOCKS ETC</u>					
<u>Architect approved spacing tiles to soffits of composite slabs</u>					
254	Solid areas	m2	1	282.00	282.00
255	Ribs 150mm wide	m	1	184.00	184.00
256	Superslab hollow blocks in composite slabs	No	1	68.00	68.00
257	440 x 220 x 170 mm Block type N170 laid 600 mm apart in both directions	No	1	68.00	68.00
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>					
<u>Rough Formwork to Sides:</u>					
258	Strip footings (Provisional)	m2	1	135.00	135.00
259	Bases (Provisional).	m2	1	135.00	135.00
260	Pile caps (Provisional)	m2	1	135.00	135.00
261	Foundation beams (Provisional)	m2	1	147.00	147.00
262	Steps	m2	1	135.00	135.00
263	Retaining walls	m2	1	135.00	135.00
264	Retaining walls circular exceeding 1m radius	m2	1	147.00	147.00

265	Retaining walls with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	147.00	147.00
266	Retaining walls with total height exceeding 3m and not exceeding 6m above bearing level circular not exceeding 1m radius	m2	1	158.00	158.00
267	One face of retaining walls (other face against excavated or existing surfaces)	m2	1	147.00	147.00
268	One face of retaining walls (other face against excavated or existing surfaces) circular not exceeding 1m radius	m2	1	147.00	147.00
269	Walls in foundations (Provisional)	m2	1	135.00	135.00
270	Walls in foundations circular exceeding 1m radius (Provisional)	m2	1	147.00	147.00
271	Walls	m2	1	135.00	135.00
272	Walls circular exceeding 1m radius	m2	1	147.00	147.00
273	Walls with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	147.00	147.00
274	Walls with total height exceeding 3m and not exceeding 6m above bearing level circular exceeding 1m radius	m2	1	147.00	147.00
275	Inner face of shaft walls	m2	1	147.00	147.00
276	Outer face of walls flush with perimeter of concrete structure	m2	1	158.00	158.00
277	Outer face of walls flush with perimeter of concrete structure circular not exceeding 2m exceeding 1m radius	m2	1	158.00	158.00
278	Rectangular stub columns in foundations (Provisional)	m2	1	158.00	158.00
279	Rectangular columns in foundations (Provisional)	m2	1	158.00	158.00
280	Rectangular columns	m2	1	135.00	135.00
281	Rectangular columns with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	169.00	169.00
282	Rectangular columns with one face against excavated or existing surfaces in foundations (Provisional)	m2	1	158.00	158.00
283	Rectangular columns with one face against excavated or existing surfaces	m2	1	158.00	158.00
284	T-shaped columns	m2	1	169.00	169.00
285	Beams	m2	1	147.00	147.00
286	Inverted beams	m2	1	147.00	147.00
287	Isolated beams	m2	1	147.00	147.00
288	Wall beams	m2	1	147.00	147.00
289	Edges exceeding 300mm high	m2	1	164.00	164.00
290	Edges exceeding 300mm high circular not exceeding 1m radius	m2	1	164.00	164.00
291	Edges exceeding 300mm high circular exceeding 1m radius	m2	1	164.00	164.00
292	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1	45.00	45.00
293	Edges, risers, ends and reveals not exceeding 300mm high or wide circular not exceeding 1m radius	m	1	45.00	45.00
	<u>Rough formwork to circular columns</u>				
294	600mm Diameter column 2.4m high	No	1	2,545.00	2,545.00
	<u>Rough Formwork to Soffits:</u>				
295	Slabs propped up not exceeding 1.5m high	m2	1	364.00	364.00
296	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	364.00	364.00
297	Slabs over shafts	m2	1	364.00	364.00
298	Slabs with sloping soffits propped up not exceeding 1.5m high	m2	1	364.00	364.00
299	Slabs with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	364.00	364.00
300	Beams propped up not exceeding 1.5m high	m2	1	438.00	438.00
301	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	438.00	438.00
302	Landings.	m2	1	364.00	364.00

303	Stairs, ramps with sloping soffits.	m2	1	364.00	364.00
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>Rough Formwork to Sides:</u>					
304	Strip footings (Provisional)	m2	1	135.00	135.00
305	Bases (Provisional).	m2	1	135.00	135.00
306	Pile caps (Provisional)	m2	1	147.00	147.00
307	Foundation beams (Provisional)	m2	1	147.00	147.00
308	Steps	m2	1	135.00	135.00
309	Retaining walls	m2	1	147.00	147.00
310	Retaining walls circular exceeding 1m radius	m2	1	158.00	158.00
311	Retaining walls with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	169.00	169.00
312	Retaining walls with total height exceeding 3m and not exceeding 6m above bearing level circular not exceeding 1m radius	m2	1	169.00	169.00
313	One face of retaining walls (other face against excavated or existing surfaces)	m2	1	169.00	169.00
314	One face of retaining walls (other face against excavated or existing surfaces) circular not exceeding 1m radius	m2	1	169.00	169.00
315	Walls in foundations (Provisional)	m2	1	147.00	147.00
316	Walls in foundations circular exceeding 1m radius (Provisional)	m2	1	158.00	158.00
317	Walls	m2	1	135.00	135.00
318	Walls circular exceeding 1m radius	m2	1	147.00	147.00
319	Walls with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	169.00	169.00
320	Walls with total height exceeding 3m and not exceeding 6m above bearing level circular exceeding 1m radius	m2	1	169.00	169.00
321	Walls with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	169.00	169.00
322	Inner face of shaft walls	m2	1	135.00	135.00
323	Outer face of walls flush with perimeter of concrete structure	m2	1	147.00	147.00
324	Outer face of walls flush with perimeter of concrete structure circular not exceeding 1m radius	m2	1	147.00	147.00
325	Inner face of balustrade walls	m2	1	147.00	147.00
326	Rectangular columns with one face against excavated or existing surfaces	m2	1	158.00	158.00
327	Inner face of balustrade walls circular not exceeding 1m radius	m2	1	147.00	147.00
328	Outer face of balustrade walls	m2	1	147.00	147.00
329	Outer face of balustrade walls circular not exceeding 1m radius	m2	1	180.00	180.00
330	Inner face of raking balustrade walls over stairs	m2	1	180.00	180.00
331	Outer face of raking balustrade walls	m2	1	180.00	180.00
332	Inner face of flowing balustrade walls over stairs circular not exceeding 1m radius	m2	1	180.00	180.00
333	Outer face of flowing balustrade walls circular not exceeding 1m radius	m2	1	180.00	180.00
334	Rectangular stub columns in foundations (Provisional)	m2	1	158.00	158.00
335	Rectangular columns in foundations (Provisional)	m2	1	158.00	158.00
336	Rectangular columns	m2	1	135.00	135.00
337	Rectangular columns with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	180.00	180.00
338	Rectangular columns with one face against excavated or existing surfaces in foundations (Provisional)	m2	1	147.00	147.00
339	Rectangular columns with one face against excavated or existing surfaces	m2	1	147.00	147.00
340	Rectangular columns with one side splayed	m2	1	152.00	152.00

341	Rectangular columns with one side battered	m2	1	152.00	152.00
342	Rectangular fins	m2	1	158.00	158.00
343	L-shaped columns in foundations (Provisional)	m2	1	158.00	158.00
344	L-shaped columns	m2	1	147.00	147.00
345	L-shaped columns with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	180.00	180.00
346	Irregular L-shaped columns	m2	1	169.00	169.00
347	T-shaped columns	m2	1	158.00	158.00
348	T-shaped columns with total height exceeding 3m and not exceeding 6m above bearing level	m2	1	180.00	180.00
349	Irregular T-shaped columns	m2	1	180.00	180.00
350	Hexagonal columns	m2	1	203.00	203.00
351	Irregular shaped columns with 6 right angles and 2 Obtuse angles	m2	1	203.00	203.00
352	Beams	m2	1	147.00	147.00
353	Beams circular not exceeding 1m radius	m2	1	152.00	152.00
354	Sloping beams	m2	1	152.00	152.00
355	Beams with tapering sides	m2	1	158.00	158.00
356	Inverted beams	m2	1	152.00	152.00
357	Inverted beams circular not exceeding 1m radius	m2	1	158.00	158.00
358	Inverted beams above concrete	m2	1	147.00	147.00
359	Inverted beams above concrete circular not exceeding 1m radius	m2	1	158.00	158.00
360	Inverted beams with battered sides	m2	1	158.00	158.00
361	Inverted beams with battered sides above concrete	m2	1	169.00	169.00
362	Isolated beams	m2	1	147.00	147.00
363	Isolated beams circular not exceeding 1m radius	m2	1	169.00	169.00
364	Sloping isolated beams	m2	1	147.00	147.00
365	Wall beams	m2	1	135.00	135.00
366	Isolated wall beams	m2	1	147.00	147.00
367	Isolated wall beams circular not exceeding 1m radius	m2	1	158.00	158.00
368	Lintels	m2	1	135.00	135.00
369	Wallholds	m2	1	135.00	135.00
370	Edges exceeding 300mm high	m2	1	165.00	165.00
371	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1	90.00	90.00
372	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	1	90.00	90.00
373	Edges, risers, ends and reveals not exceeding 300mm high or wide circular not exceeding 1m radius	m	1	90.00	90.00
374	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	1	90.00	90.00
375	Sloping and stepped outer edges of stairs 200mm high extreme	m	1	90.00	90.00
376	Sloping and stepped inner edges of kerbs to stairs not exceeding 300mm high extreme	m	1	90.00	90.00
377	Flowing and stepped outer edges of stairs 200mm high extreme circular not exceeding 1m radius	m	1	118.00	118.00
378	Flowing and stepped inner edges of kerbs to stairs not exceeding 300mm high extreme circular not exceeding 1m radius	m	1	90.00	90.00
	<u>Rough formwork to circular columns</u>				
379	600mm Diameter column 2.4m high	No	1	3,992.00	3,992.00
380	600mm Diameter column 2400m high with cap 700 x 700 x 100mm high	No	1	3,992.00	3,992.00

381	600mm Diameter column 2.4m high with mushroom cap 700mm diameter at top and 100mm high overall with the top 50mm of cap vertical	No	1	3,992.00	3,992.00
	Rough Formwork to Soffits:				
382	Slabs propped up not exceeding 1.5m high	m2	1	375.00	375.00
383	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	375.00	375.00
384	Slabs propped up exceeding 3.5m and not exceeding 5m high	m2	1	375.00	375.00
385	Slabs propped up exceeding 5m and not exceeding 6.5m high	m2	1	375.00	375.00
386	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	375.00	375.00
387	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of slab over	m2	1	375.00	375.00
388	Slabs exceeding 250mm and not exceeding 500mm thick propped up not exceeding 1.5m high	m2	1	375.00	375.00
389	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	375.00	375.00
390	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	375.00	375.00
391	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	375.00	375.00
392	Slabs over shafts	m2	1	375.00	375.00
393	Slabs with sloping soffits propped up not exceeding 1.5m high	m2	1	375.00	375.00
394	Slabs with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	375.00	375.00
395	Slabs with sloping soffits propped up exceeding 3.5m and not exceeding 5m high	m2	1	375.00	375.00
396	Slabs with sloping soffits propped up exceeding 5m and not exceeding 6.5m high	m2	1	375.00	375.00
397	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick	m2	1	375.00	375.00
398	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	375.00	375.00
399	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	375.00	375.00
400	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	375.00	375.00
401	Cantilever slabs propped up not exceeding 1.5m high	m2	1	375.00	375.00
402	Cantilever slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	384.00	384.00
403	Hood slabs	m2	1	384.00	384.00
404	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1.5m high	m2	1	431.00	431.00
405	Landings	m2	1	431.00	431.00
406	Landings exceeding 150mm and not exceeding 250mm thick	m2	1	431.00	431.00
407	Stairs with sloping soffits	m2	1	438.00	438.00
408	Beams propped up not exceeding 1.5m high	m2	1	438.00	438.00
409	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28days	m2	1	438.00	438.00
410	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	438.00	438.00
411	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	438.00	438.00
412	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	438.00	438.00
413	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	438.00	438.00
414	Beams with sloping soffits propped up not exceeding 1.5m high	m2	1	438.00	438.00
415	Beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	438.00	438.00

416	Isolated beams propped up not exceeding 1.5m high	m2	1	438.00	438.00
417	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	438.00	438.00
418	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	438.00	438.00
419	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	438.00	438.00
420	Isolated beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	438.00	438.00
421	Wall beams over openings propped up exceeding 1.5 and not exceeding 3.5m high	m2	1	438.00	438.00
422	Isolated wall beams over openings propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	438.00	438.00
	<u>Rough formwork to composite hollow block slabs</u>				
423	Soffits of composite slabs propped up not exceeding 1.5m high	m2	1	364.00	364.00
424	Soffits of composite slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	364.00	364.00
	<u>Rough formwork to coffered slabs</u>				
425	Soffits of coffered slabs with 150mm wide ribs at 600mm centres in both directions propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	364.00	364.00
426	Soffits of adjacent flush surfaces of coffered slabs exceeding 150mm and not exceeding 250mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	364.00	364.00
	<u>Rough formwork to troughed slabs</u>				
427	Soffits of troughed slabs with 150mm wide ribs at 600mm centres propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	399.00	399.00
428	Soffits of adjacent flush surfaces of troughed slabs exceeding 150mm and not exceeding 200mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	399.00	399.00
429	Top and sides of troughs 600mm wide at top, 600mm wide at bottom and 300mm high	m	1	399.00	399.00
	<u>Rough retractable shutters</u>				
430	Shutters 300 x 600mm high supported on prefabricated beams	m	1	399.00	399.00
	<u>Supporting bearers to prefabricated beams</u>				
431	Bearers propped up not exceeding 1.5m high	m	1	714.00	714.00
432	Bearers propped up exceeding 1.5m and not exceeding 3.5m high	m	1	714.00	714.00
	<u>Rough formwork to sides and soffits</u>				
433	Beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
434	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
435	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	758.00	758.00
436	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
437	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
438	Beams propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
439	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
440	Sloping beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
441	Beams with battered sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
442	Beams with sloping soffits and tapering sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
443	Isolated beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
444	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	758.00	758.00
445	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
446	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
447	Sloping isolated beams propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	758.00	758.00

448	Lintels propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Formwork to sloping top surfaces</u>				
449	Slabs	m2	1	758.00	758.00
450	Beams, walls, etc exceeding 300mm wide	m2	1	758.00	758.00
451	Beams, walls, etc not exceeding 300mm wide	m	1	758.00	758.00
	<u>Boxing in rough formwork to form</u>				
452	100 x 100mm Chamfer along top or bottom edge	m	1	226.00	226.00
453	100 x 100mm Chamfer along top or bottom edge circular not exceeding 1m radius	m	1	226.00	226.00
454	Opening exceeding 1m and not exceeding 2m girth through 230mm wall or beam	No	1	282.00	282.00
455	100mm Diameter opening through 230mm wall or beam	No	1	282.00	282.00
	<u>ROUGH FORMWORK TO TYPICAL FLOORS (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
456	Walls in foundations (Provisional)	m2	1	478.00	478.00
457	Walls in foundations circular not exceeding 1m radius (Provisional)	m2	1	478.00	478.00
458	Walls	m2	1	478.00	478.00
459	Walls circular not exceeding 1m radius	m2	1	478.00	478.00
460	Walls with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	478.00	478.00
461	Walls with total height exceeding 1m and not exceeding 2m above bearing level circular not exceeding 1m radius	m2	1	478.00	478.00
462	Inner face of shaft walls	m2	1	478.00	478.00
463	Outer face of walls flush with perimeter of concrete structure	m2	1	478.00	478.00
464	Outer face of walls flush with perimeter of concrete structure circular not exceeding 1m radius	m2	1	478.00	478.00
465	Inner face of balustrade walls	m2	1	478.00	478.00
466	Inner face of balustrade walls circular not exceeding 1m radius	m2	1	478.00	478.00
467	Outer face of balustrade walls	m2	1	478.00	478.00
468	Outer face of balustrade walls circular not exceeding 1m radius	m2	1	478.00	478.00
469	Inner face of raking balustrade walls over stairs	m2	1	478.00	478.00
470	Outer face of raking balustrade walls	m2	1	478.00	478.00
471	Inner face of flowing balustrade walls over stairs circular not exceeding 1m radius	m2	1	478.00	478.00
472	Outer face of flowing balustrade walls circular not exceeding 1m radius	m2	1	478.00	478.00
473	Rectangular columns	m2	1	414.00	414.00
474	Rectangular columns with total height exceeding 2m and not exceeding 3m above bearing level	m2	1	414.00	414.00
475	L-shaped columns	m2	1	1,338.00	1,338.00
476	T-shaped columns	m2	1	1,338.00	1,338.00
477	Irregular T-shaped columns	m2	1	1,338.00	1,338.00
478	Beams	m2	1	494.00	494.00
479	Beams circular not exceeding 1m radius	m2	1	494.00	494.00
480	Sloping beams	m2	1	494.00	494.00
481	Beams with tapering sides	m2	1	494.00	494.00
482	Inverted beams	m2	1	494.00	494.00
483	Inverted beams circular not exceeding 1m radius	m2	1	494.00	494.00
484	Inverted beams above concrete	m2	1	494.00	494.00

485	Inverted beams above concrete circular not exceeding 1m radius	m2	1	494.00	494.00
486	Inverted beams with battered sides	m2	1	494.00	494.00
487	Inverted beams with battered sides above concrete	m2	1	494.00	494.00
488	Isolated beams	m2	1	494.00	494.00
489	Isolated beams circular not exceeding 1m radius	m2	1	494.00	494.00
490	Sloping isolated beams	m2	1	494.00	494.00
491	Wall beams	m2	1	494.00	494.00
492	Isolated wall beams	m2	1	494.00	494.00
493	Isolated wall beams circular not exceeding 1m radius	m2	1	494.00	494.00
494	Lintels	m2	1	494.00	494.00
495	Wallholds	m2	1	494.00	494.00
496	Edges exceeding 300mm high	m2	1	494.00	494.00
497	Edges exceeding 300mm high circular not exceeding 1m radius	m2	1	494.00	494.00
498	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1	494.00	494.00
499	Edges, risers, ends and reveals not exceeding 300mm high or wide circular not exceeding 1m radius	m	1	494.00	494.00
500	Edges, risers, ends and reveals not exceeding 300mm high or wide circular not exceeding 1m radius	m	1	494.00	494.00
501	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme	m	1	494.00	494.00
502	Sloping and stepped outer edges of stairs 250mm high extreme	m	1	494.00	494.00
503	Sloping and stepped inner edges of kerbs to stairs not exceeding 300mm high extreme	m	1	494.00	494.00
504	Flowing and stepped outer edges of stairs 250mm high extreme circular not exceeding 1m radius	m	1	494.00	494.00
505	Flowing and stepped inner edges of kerbs to stairs not exceeding 300mm high extreme circular not exceeding 1m radius	m	1	494.00	494.00
	<u>Rough Formwork to Soffits:</u>				
506	Slabs propped up not exceeding 1.5m high	m2	1	758.00	758.00
507	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
508	Slabs propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
509	Slabs propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
510	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
511	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of slab over	m2	1	758.00	758.00
512	Slabs exceeding 250mm and not exceeding 500mm thick propped up not exceeding 1.5m high	m2	1	758.00	758.00
513	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
514	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
515	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
516	Slabs over shafts	m2	1	758.00	758.00
517	Slabs with sloping soffits propped up not exceeding 1.5m high	m2	1	758.00	758.00
518	Slabs with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
519	Slabs with sloping soffits propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
520	Slabs with sloping soffits propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
521	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick	m2	1	758.00	758.00

522	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
523	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
524	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
525	Cantilever slabs propped up not exceeding 1.5m high	m2	1	758.00	758.00
526	Cantilever slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
527	Hood slabs	m2	1	758.00	758.00
528	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1.5m high	m2	1	431.00	431.00
529	Landings	m2	1	758.00	758.00
530	Landings exceeding 100mm and not exceeding 200mm thick	m2	1	758.00	758.00
531	Stairs with sloping soffits	m2	1	758.00	758.00
532	Beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
533	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
534	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	758.00	758.00
535	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
536	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
537	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
538	Beams with sloping soffits propped up not exceeding 1.5m high	m2	1	758.00	758.00
539	Beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
540	Isolated beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
541	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	758.00	758.00
542	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
543	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
544	Isolated beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
545	Wall beams over openings propped up exceeding 1.5 and not exceeding 3.5m high	m2	1	758.00	758.00
546	Isolated wall beams over openings propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
<u>Rough formwork to composite hollow block slabs</u>					
547	Soffits of composite slabs propped up not exceeding 1.5m high	m2	1	364.00	364.00
548	Soffits of composite slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	364.00	364.00
<u>Rough formwork to coffered slabs</u>					
549	Soffits of coffered slabs with 150mm wide ribs at 600mm centres in both directions propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
550	Soffits of adjacent flush surfaces of coffered slabs exceeding 150mm and not exceeding 250mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
<u>Rough formwork to troughed slabs</u>					
551	Soffits of troughed slabs with 150mm wide ribs at 600mm centres propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
552	Soffits of adjacent flush surfaces of troughed slabs exceeding 150mm and not exceeding 200mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
553	Top and sides of troughs 600mm wide at top, 600mm wide at bottom and 300mm high	m	1	758.00	758.00
<u>Rough retractable shutters</u>					
554	Shutters 300 x 600mm high supported on prefabricated beams	m	1	758.00	758.00
<u>Supporting bearers to prefabricated beams</u>					
555	Bearers propped up not exceeding 1.5m high	m	1	751.00	751.00
556	Bearers propped up exceeding 1.5m and not exceeding 3.5m high	m	1	758.00	758.00

	<u>Rough formwork to sides and soffits</u>				
557	Beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
558	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
559	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	758.00	758.00
560	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
561	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
562	Beams propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
563	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
564	Sloping beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
565	Beams with battered sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
566	Beams with sloping soffits and tapering sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
567	Isolated beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
568	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	758.00	758.00
569	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
570	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
571	Sloping isolated beams propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	758.00	758.00
572	Lintels propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Formwork to sloping top surfaces</u>				
573	Slabs	m2	1	758.00	758.00
574	Beams, walls, etc exceeding 300mm wide	m2	1	758.00	758.00
575	Beams, walls, etc not exceeding 300mm wide	m	1	758.00	758.00
	<u>Boxing in rough formwork to form</u>				
576	50 x 50mm Chamfer along top or bottom edge	m	1	169.00	169.00
577	50 x 50mm Chamfer along top or bottom edge circular not exceeding 1m radius	m	1	169.00	169.00
578	100 x 100mm Vertical chamfer at corner	No	1	226.00	226.00
579	100 x 100mm Horizontal chase or groove in side	m	1	226.00	226.00
580	100 x 100mm Horizontal chase or groove in side circular not exceeding 1m radius	m	1	226.00	226.00

SMOOTH FORMWORK (DEGREE OF ACCURACY I / II)					
<u>Smooth Formwork to Sides:</u>					
581	Walls and Retaining walls	m2	1	688.00	688.00
582	Retaining walls circular not exceeding 1m radius	m2	1	688.00	688.00
583	Retaining walls with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	688.00	688.00
584	Retaining walls with total height exceeding 1m and not exceeding 2m above bearing level circular not exceeding 1m radius	m2	1	688.00	688.00
585	One face of retaining walls (other face against excavated or existing surfaces)	m2	1	487.00	487.00
586	One face of retaining walls (other face against excavated or existing surfaces) circular not exceeding 1m radius	m2	1	487.00	487.00
587	Walls circular not exceeding 1m radius	m2	1	688.00	688.00
588	Walls with total height exceeding 2m and not exceeding 3m above bearing level	m2	1	688.00	688.00
589	Walls with total height exceeding 2m and not exceeding 3m above bearing level circular not exceeding 1m radius	m2	1	688.00	688.00
590	Inner face of shaft walls	m2	1	487.00	487.00
591	Outer face of walls flush with perimeter of concrete structure	m2	1	487.00	487.00
592	Outer face of walls flush with perimeter of concrete structure circular not exceeding 1m radius	m2	1	487.00	487.00
593	Inner face of balustrade walls	m2	1	487.00	487.00
594	Inner face of balustrade walls circular not exceeding 1m radius	m2	1	487.00	487.00
595	Outer face of balustrade walls	m2	1	487.00	487.00
596	Outer face of balustrade walls circular not exceeding 1m radius	m2	1	487.00	487.00
597	Inner face of raking balustrade walls over stairs	m2	1	487.00	487.00
598	Outer face of raking balustrade walls	m2	1	487.00	487.00
599	Inner face of flowing balustrade walls over stairs circular not exceeding 1m radius	m2	1	487.00	487.00
600	Outer face of flowing balustrade walls circular not exceeding 1m radius	m2	1	487.00	487.00
601	Rectangular columns	m2	1	487.00	487.00
602	Rectangular columns with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	487.00	487.00
603	Rectangular columns with one face against excavated or existing surfaces	m2	1	487.00	487.00
604	Rectangular columns with one side splayed	m2	1	487.00	487.00
605	Rectangular columns with one side battered	m2	1	487.00	487.00
606	Rectangular fins	m2	1	487.00	487.00
607	L-shaped columns with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	487.00	487.00
608	Irregular L-shaped columns	m2	1	487.00	487.00
609	T-shaped columns	m2	1	487.00	487.00
610	T-shaped columns with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	487.00	487.00
611	Irregular T-shaped columns	m2	1	487.00	487.00
612	Hexagonal columns	m2	1	487.00	487.00
613	Irregular shaped columns with 6 right angles and 2 Obtuse angles	m2	1	487.00	487.00
614	Beams	m2	1	496.00	496.00
615	Beams circular not exceeding 1m radius	m2	1	496.00	496.00
616	Sloping beams	m2	1	469.00	469.00
617	Beams with tapering sides	m2	1	496.00	496.00
618	Inverted beams	m2	1	496.00	496.00

619	Inverted beams circular not exceeding 1m radius	m2	1	496.00	496.00
620	Inverted beams above concrete	m2	1	496.00	496.00
621	Inverted beams above concrete circular not exceeding 1m radius	m2	1	496.00	496.00
622	Inverted beams with battered sides	m2	1	496.00	496.00
623	Inverted beams with battered sides above concrete	m2	1	496.00	496.00
624	Isolated beams	m2	1	496.00	496.00
625	Isolated beams circular not exceeding 1m radius	m2	1	496.00	496.00
626	Sloping isolated beams	m2	1	496.00	496.00
627	Wall beams	m2	1	496.00	496.00
628	Isolated wall beams	m2	1	496.00	496.00
629	Isolated wall beams circular not exceeding 1m radius	m2	1	496.00	496.00
630	Lintels	m2	1	496.00	496.00
631	Wallholds	m2	1	496.00	496.00
632	Edges exceeding 300mm high	m2	1	496.00	496.00
633	Edges exceeding 300mm high circular on plan exceeding 1m radius	m2	1	496.00	496.00
634	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	1	226.00	226.00
635	Edges, risers, ends and reveals not exceeding 300mm high or wide circular not exceeding 1m radius	m	1	226.00	226.00
636	Sloping and stepped outer edges of stairs 200mm high extreme	m	1	226.00	226.00
637	Sloping and stepped outer edges of stairs not exceeding 400mm high extreme.	m	1	226.00	226.00
638	Stair walls.	m2	1	496.00	496.00
	<u>Smooth Formwork to Soffits:</u>				
639	Slabs	m2	1	758.00	758.00
640	Slabs propped up not exceeding 1.5m high	m2	1	758.00	758.00
641	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
642	Slabs propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
643	Slabs propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
644	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
645	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of slab over	m2	1	758.00	758.00
646	Slabs exceeding 250mm and not exceeding 500mm thick propped up not exceeding 1.5m high	m2	1	758.00	758.00
647	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
648	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
649	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
650	Slabs over shafts	m2	1	758.00	758.00
651	Slabs with sloping soffits propped up not exceeding 1.5m high	m2	1	758.00	758.00
652	Slabs with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
653	Slabs with sloping soffits propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
654	Slabs with sloping soffits propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
655	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick	m2	1	758.00	758.00

656	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
657	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
658	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	758.00	758.00
659	Cantilever slabs propped up not exceeding 1.5m high	m2	1	758.00	758.00
660	Cantilever slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
661	Hood slabs	m2	1	758.00	758.00
662	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1.5m high	m2	1	758.00	758.00
663	Landings	m2	1	758.00	758.00
664	Landings exceeding 100 mm and not exceeding 200 mm thick	m2	1	758.00	758.00
665	Stairs with sloping soffits	m2	1	758.00	758.00
666	Beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
667	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
668	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	758.00	758.00
669	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
670	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
671	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
672	Beams with sloping soffits propped up not exceeding 1.5m high	m2	1	758.00	758.00
673	Beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
674	Isolated beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
675	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	758.00	758.00
676	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
677	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
678	Isolated beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
679	Wall beams over openings propped up exceeding 1.5 and not exceeding 3.5m high	m2	1	758.00	758.00
680	Isolated wall beams over openings propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Smooth formwork to composite hollow block slabs</u>				
681	Soffits of composite slabs propped up not exceeding 1.5m high	m2	1	758.00	758.00
682	Soffits of composite slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Smooth formwork to coffered slabs</u>				
683	Soffits of coffered slabs with 50mm wide ribs at 150mm centres in both directions propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
684	Soffits of adjacent flush surfaces of coffered slabs exceeding 100mm and not exceeding 200mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Smooth formwork to troughed slabs</u>				
685	Soffits of troughed slabs with 50mm wide ribs at 150mm centres propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
686	Soffits of adjacent flush surfaces of troughed slabs exceeding 100mm and not exceeding 200mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Supporting bearers to prefabricated beams</u>				
687	Bearers propped up not exceeding 1.5m high	m	1	758.00	758.00
688	Bearers propped up exceeding 1.5m and not exceeding 3.5m high	m	1	758.00	758.00

	<u>Smooth Formwork to sides and soffits:</u>				
689	Beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
690	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
691	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	758.00	758.00
692	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
693	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
694	Beams propped up exceeding 3.5m and not exceeding 5m high	m2	1	758.00	758.00
695	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
696	Sloping beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
697	Beams with battered sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
698	Beams with sloping soffits and tapering sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
699	Isolated beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
700	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	758.00	758.00
701	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
702	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
703	Sloping isolated beams propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	758.00	758.00
704	Lintels propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	758.00	758.00
	<u>Smooth formwork to troughed slabs</u>				
705	Slabs	m2	1	758.00	758.00
706	Beams, walls, etc exceeding 300mm wide	m2	1	758.00	758.00
707	Beams, walls, etc not exceeding 300mm wide	m	1	338.00	338.00
	<u>Boxing in smooth formwork to form</u>				
708	20 x 20mm Vertical chamfers at corners	m	1	135.00	135.00
709	20 x 20mm Chamfer along top or bottom edge	m	1	135.00	135.00
710	Opening exceeding 1m and not exceeding 2m girth through 230mm wall or beam	No	1	282.00	282.00
711	100mm Diameter opening through 230mm wall or beam	No	1	282.00	282.00
	<u>Smooth formwork to form</u>				
712	Opening exceeding 1m and not exceeding 2m girth through not exceeding 300mm slab	No	1	282.00	282.00
713	150mm Diameter opening through not exceeding 300mm slab	No	1	282.00	282.00
714	300mm Diameter opening through not exceeding 300mm wall or beam	No	1	282.00	282.00
	<u>SMOOTH FORMWORK TO TYPICAL FLOORS (DEGREE OF ACCURACY I)</u>				
	<u>Smooth formwork to sides</u>				
715	Walls	m2	1	440.00	440.00
716	Walls circular not exceeding 1m radius	m2	1	440.00	440.00
717	Walls with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	440.00	440.00
718	Walls with total height exceeding 1m and not exceeding 2m above bearing level circular not exceeding 1m radius	m2	1	440.00	440.00
719	Inner face of shaft walls	m2	1	440.00	440.00
720	Outer face of walls flush with perimeter of concrete structure	m2	1	440.00	440.00
721	Outer face of walls flush with perimeter of concrete structure circular not exceeding 1m radius	m2	1	440.00	440.00
722	Inner face of balustrade walls	m2	1	440.00	440.00

723	Inner face of balustrade walls circular not exceeding 1m radius	m2	1	440.00	440.00
724	Outer face of balustrade walls	m2	1	440.00	440.00
725	Outer face of balustrade walls circular not exceeding 1m radius	m2	1	440.00	440.00
726	Inner face of raking balustrade walls over stairs	m2	1	440.00	440.00
727	Outer face of raking balustrade walls	m2	1	440.00	440.00
728	Inner face of flowing balustrade walls over stairs circular not exceeding 1m radius	m2	1	440.00	440.00
729	Outer face of flowing balustrade walls circular not exceeding 1m radius	m2	1	440.00	440.00
730	Rectangular columns	m2	1	910.00	910.00
731	Rectangular columns with total height exceeding 1m and not exceeding 2m above bearing level	m2	1	910.00	910.00
732	L-shaped columns	m2	1	910.00	910.00
733	T-shaped columns	m2	1	910.00	910.00
734	Irregular T-shaped columns	m2	1	910.00	910.00
735	Beams	m2	1	504.00	504.00
736	Beams circular not exceeding 1m radius	m2	1	504.00	504.00
737	Sloping beams	m2	1	504.00	504.00
738	Beams with tapering sides	m2	1	504.00	504.00
739	Inverted beams	m2	1	504.00	504.00
740	Inverted beams circular not exceeding 1m radius	m2	1	504.00	504.00
741	Inverted beams above concrete	m2	1	504.00	504.00
742	Inverted beams above concrete circular not exceeding 1m radius	m2	1	504.00	504.00
743	Inverted beams with battered sides	m2	1	504.00	504.00
744	Inverted beams with battered sides above concrete	m2	1	504.00	504.00
745	Isolated beams	m2	1	504.00	504.00
746	Isolated beams circular not exceeding 1m radius	m2	1	504.00	504.00
747	Sloping isolated beams	m2	1	504.00	504.00
748	Wall beams	m2	1	504.00	504.00
749	Isolated wall beams	m2	1	504.00	504.00
750	Isolated wall beams circular not exceeding 1m radius	m2	1	504.00	504.00
751	Lintels	m2	1	504.00	504.00
752	Wallholds	m2	1	504.00	504.00
753	Edges exceeding 300mm high	m2	1	504.00	504.00
754	Edges exceeding 300mm high circular exceeding 1m radius	m2	1	504.00	504.00
755	Edges exceeding 300mm high circular not exceeding 1m radius	m2	1	504.00	504.00
	<u>Smooth formwork to soffits</u>				
756	Slabs propped up not exceeding 1.5m high	m2	1	87.00	87.00
757	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	87.00	87.00
758	Slabs propped up exceeding 3.5m and not exceeding 5m high	m2	1	87.00	87.00
759	Slabs propped up exceeding 5m and not exceeding 6.5m high	m2	1	87.00	87.00
760	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	87.00	87.00
761	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of slab over	m2	1	87.00	87.00
762	Slabs exceeding 250mm and not exceeding 500mm thick propped up not exceeding 1.5m high	m2	1	87.00	87.00

763	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	87.00	87.00
764	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	87.00	87.00
765	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	87.00	87.00
766	Slabs over shafts	m2	1	684.00	684.00
767	Slabs with sloping soffits propped up not exceeding 1.5m high	m2	1	684.00	684.00
768	Slabs with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	107.00	107.00
769	Slabs with sloping soffits propped up exceeding 3.5m and not exceeding 5m high	m2	1	109.00	109.00
770	Slabs with sloping soffits propped up exceeding 5m and not exceeding 6.5m high	m2	1	109.00	109.00
771	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick	m2	1	109.00	109.00
772	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	109.00	109.00
773	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	109.00	109.00
774	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	109.00	109.00
775	Cantilever slabs propped up not exceeding 1.5m high	m2	1	758.00	758.00
776	Cantilever slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	758.00	758.00
777	Hood slabs	m2	1	758.00	758.00
778	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1.5m high	m2	1	758.00	758.00
779	Landings	m2	1	758.00	758.00
780	Landings exceeding 100mm and not exceeding 200mm thick	m2	1	758.00	758.00
781	Stairs with sloping soffits	m2	1	758.00	758.00
782	Beams propped up not exceeding 1.5m high	m2	1	409.00	409.00
783	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	409.00	409.00
784	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	409.00	409.00
785	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	758.00	758.00
786	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	409.00	409.00
787	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	409.00	409.00
788	Beams with sloping soffits propped up not exceeding 1.5m high	m2	1	758.00	758.00
789	Beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	409.00	409.00
790	Isolated beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
791	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	758.00	758.00
792	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	409.00	409.00
793	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	409.00	409.00
794	Isolated beams with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	409.00	409.00
795	Wall beams over openings propped up exceeding 1.5 and not exceeding 3.5m high	m2	1	409.00	409.00
796	Isolated wall beams over openings propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	409.00	409.00
797	Soffits of composite slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	409.00	409.00
	<u>Smooth formwork to coffered slabs</u>				
798	Soffits of coffered slabs with 100mm wide ribs at 250mm centres in both directions propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	290.00	290.00

799	Soffits of adjacent flush surfaces of coffered slabs exceeding 150mm and not exceeding 300mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	290.00	290.00
	<u>Smooth formwork to troughed slabs</u>				
800	Soffits of troughed slabs with 100mm wide ribs at 250mm centres propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	290.00	290.00
801	Soffits of adjacent flush surfaces of troughed slabs exceeding 100mm and not exceeding 200mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	290.00	290.00
	<u>Supporting bearers to prefabricated beams</u>				
802	Bearers propped up not exceeding 1.5m high	m	1	628.00	628.00
803	Bearers propped up exceeding 1.5m and not exceeding 3.5m high	m	1	628.00	628.00
	<u>Smooth Formwork to sides and soffits:</u>				
804	Beams propped up not exceeding 1.5m high	m2	1	628.00	628.00
805	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	628.00	628.00
806	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	628.00	628.00
807	Beams propped up not exceeding 1.5m high circular not exceeding 1m radius	m2	1	628.00	628.00
808	Beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	628.00	628.00
809	Beams propped up exceeding 3.5m and not exceeding 5m high	m2	1	628.00	628.00
810	Beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	628.00	628.00
811	Sloping beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	628.00	628.00
812	Beams with battered sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	628.00	628.00
813	Beams with sloping soffits and tapering sides propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	628.00	628.00
814	Isolated beams propped up not exceeding 1.5m high	m2	1	628.00	628.00
815	Isolated beams circular not exceeding 1m radius propped up not exceeding 1.5m high	m2	1	628.00	628.00
816	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	628.00	628.00
817	Isolated beams propped up exceeding 1.5m and not exceeding 3.5m high circular not exceeding 1m radius	m2	1	628.00	628.00
818	Sloping isolated beams propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	628.00	628.00
819	Lintels propped up exceeding 1.5m high and not exceeding 3.5m high	m2	1	628.00	628.00
	<u>SPECIAL FORMWORK (DEGREE OF ACCURACY I)</u>				
	<u>Special formwork to sides</u>				
820	Walls	m2	1	2,240.00	2,240.00
821	Walls circular not exceeding 1m radius	m2	1	2,240.00	2,240.00
822	Walls with total height exceeding 2m and not exceeding 3m above bearing level	m2	1	2,240.00	2,240.00
823	Inner face of shaft walls	m2	1	2,240.00	2,240.00
824	Outer face of walls flush with perimeter of concrete structure	m2	1	2,240.00	2,240.00
825	Outer face of walls flush with perimeter of concrete structure circular not exceeding 1m radius	m2	1	2,240.00	2,240.00
826	Inner face of balustrade walls	m2	1	2,240.00	2,240.00
827	Inner face of balustrade walls circular not exceeding 1m radius	m2	1	2,240.00	2,240.00
828	Outer face of balustrade walls	m2	1	2,240.00	2,240.00
829	Outer face of balustrade walls circular not exceeding 1m radius	m2	1	2,240.00	2,240.00
830	Inner face of raking balustrade walls over stairs	m2	1	2,240.00	2,240.00
831	Outer face of raking balustrade walls	m2	1	2,240.00	2,240.00
832	Inner face of flowing balustrade walls over stairs circular not exceeding 1m radius	m2	1	2,240.00	2,240.00

833	Outer face of flowing balustrade walls circular not exceeding 1m radius	m2	1	2,240.00	2,240.00
834	Rectangular columns not exceeding 3.5m in height above bearing level	m2	1	1,438.00	1,438.00
835	Rectangular columns with total height exceeding 3.5m and not exceeding 5m above bearing level	m2	1	1,438.00	1,438.00
836	L-shaped columns	m2	1	2,086.00	2,086.00
<u>Special formwork to soffits</u>					
837	Slabs propped up not exceeding 1.5m high	m2	1	734.00	734.00
838	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	734.00	734.00
839	Slabs propped up exceeding 3.5m and not exceeding 5m high	m2	1	734.00	734.00
840	Slabs propped up exceeding 5m and not exceeding 6.5m high	m2	1	734.00	734.00
841	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	734.00	734.00
842	Slabs propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of slab over	m2	1	734.00	734.00
843	Slabs exceeding 250mm and not exceeding 500mm thick propped up not exceeding 1.5m high	m2	1	734.00	734.00
844	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	734.00	734.00
845	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	734.00	734.00
846	Slabs exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	734.00	734.00
847	Slabs over shafts	m2	1	734.00	734.00
848	Slabs with sloping soffits propped up not exceeding 1.5m high	m2	1	734.00	734.00
849	Slabs with sloping soffits propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	734.00	734.00
850	Slabs with sloping soffits propped up exceeding 3.5m and not exceeding 5m high	m2	1	734.00	734.00
851	Slabs with sloping soffits propped up exceeding 5m and not exceeding 6.5m high	m2	1	734.00	734.00
852	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick	m2	1	734.00	734.00
853	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	734.00	734.00
854	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 3.5m and not exceeding 5m high	m2	1	734.00	734.00
855	Slabs with sloping soffits exceeding 250mm and not exceeding 500mm thick propped up exceeding 5m and not exceeding 6.5m high	m2	1	734.00	734.00
856	Cantilever slabs propped up not exceeding 1.5m high	m2	1	734.00	734.00
857	Cantilever slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	1	734.00	734.00
858	Hood slabs	m2	1	734.00	734.00
859	Vanity slabs, cupboard slabs, cover slabs, etc propped up not exceeding 1.5m high	m2	1	758.00	758.00
860	Landings	m2	1	758.00	758.00
861	Landings exceeding 200mm and not exceeding 300mm thick	m2	1	758.00	758.00
862	Stairs with sloping soffits	m2	1	758.00	758.00
863	Beams propped up not exceeding 1.5m high	m2	1	758.00	758.00
864	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days	m2	1	758.00	758.00
865	Beams propped up exceeding 1.5m and not exceeding 3.5m high with props left in position for a period of 28 days after casting of beam over	m2	1	758.00	758.00
<u>MOVEMENT JOINTS ETC</u>					
<u>Two layers of 375 micron "Consol Plastic Brickgrip DPC" in slip joints between</u>					

866	Exceeding 300mm wide	m2	1	85.00	85.00
867	Not exceeding 300mm wide	m	1	162.00	162.00
<u>Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:</u>					
868	10mm Joints exceeding 300mm high or wide	m2	1	68.00	68.00
869	10mm Joints not exceeding 300mm high (Provisional)	m	1	68.00	68.00
<u>Vertical construction joints through concrete including thick cement slurry to one face:</u>					
870	Surface beds not exceeding 300mm thick	m	1	68.00	68.00
<u>Saw cut joints</u>					
871	50 x 3mm Saw cut joints in top of concrete	m	1	169.00	169.00
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>Fabric reinforcement:</u>					
872	REF. 100 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1	72.00	72.00
873	REF. 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1	94.00	94.00
874	REF. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1	102.00	102.00
875	REF. 311 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1	124.00	124.00
876	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1	135.00	135.00
877	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1	164.00	164.00
<u>Mild steel reinforcement to structural concrete work:</u>					
878	8mm Diameter bars.	t	1	24,023.00	24,023.00
879	10mm Diameter bars.	t	1	23,179.00	23,179.00
880	12mm Diameter bars.	t	1	23,422.00	23,422.00
881	16mm Diameter bars	t	1	23,422.00	23,422.00
882	20mm Diameter bars	t	1	23,422.00	23,422.00
883	25mm Diameter bars	t	1	24,108.00	24,108.00
884	32mm Diameter bars	t	1	24,108.00	24,108.00

885	40mm Diameter bars	t	1	24,108.00	24,108.00
886	12mm Diameter bars in lengths exceeding 13 and not exceeding 18m	t	1	24,108.00	24,108.00
887	12mm Diameter bars in lengths exceeding 18 and not exceeding 19m	t	1	2,410.00	2,410.00
888	12mm Diameter bars curved	t	1	23,592.00	23,592.00
889	12mm Diameter bars helical	t	1	24,638.00	24,638.00
<u>High tensile steel reinforcement to structural concrete work:</u>					
890	8mm Diameter bars.	t	1	24,912.00	24,912.00
891	10mm Diameter bars.	t	1	24,912.00	24,912.00
892	12mm Diameter bars.	t	1	24,815.00	24,815.00
893	16mm Diameter bars.	t	1	24,160.00	24,160.00
894	20mm Diameter bars.	t	1	24,038.00	24,038.00
895	25mm Diameter bars.	t	1	24,603.00	24,603.00
896	32mm Diameter bars.	t	1	24,620.00	24,620.00
897	40mm Diameter bars	t	1	25,088.00	25,088.00
<u>High tensile steel reinforcement to structural concrete work in slides</u>					
898	8mm Diameter bars.	t	1	24,912.00	24,912.00
899	10mm Diameter bars.	t	1	24,912.00	24,912.00
900	12mm Diameter bars.	t	1	24,815.00	24,815.00
901	16mm Diameter bars.	t	1	24,160.00	24,160.00
902	20mm Diameter bars.	t	1	24,038.00	24,038.00
903	25mm Diameter bars.	t	1	24,603.00	24,603.00
904	32mm Diameter bars.	t	1	24,610.00	24,610.00
905	40mm Diameter bars	t	1	25,088.00	25,088.00
<u>High tensile steel dowel bars</u>					
906	Y12mm Ø dowel bar 900mm long with one end embedded 300mm deep in side of concrete at expansion joint and other end greased and wrapped in polythene sheeting including hole through formwork	No	1	649.00	649.00
Carried to Final Summary				R	1,392,824.00

	BILL NO. 5				
	PRECAST CONCRETE				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	SUPPLEMENTARY PREAMBLES				
	Sizes				
	Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made				
	General				
	Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming				
	PRECAST CONCRETE PAVING				
	<u>Paving of 300 x 300 x 50mm precast concrete paving slabs laid on 30mm thick river sand bed including preparation of ground or filling</u>				
1	Paving of slabs laid with 20mm open joints in both directions	m2	1	310.00	310.00
2	Paving of slabs laid with butt joints	m2	1	310.00	310.00
3	Paving of slabs laid with butt joints, to falls	m2	1	310.00	310.00
4	Paving of slabs laid with 15mm wide joints flush pointed with class I mortar	m2	1	310.00	310.00
5	Paving of slabs laid with 15mm wide joints flush pointed with class 1 mortar, to falls	m2	1	310.00	310.00
6	Circular cutting	m	1	130.00	130.00
7	Finished edges	m	1	100.00	100.00
	<u>Paving of 450 x 450 x 50mm precast concrete paving slabs laid on 30mm thick river sand bed including preparation of ground or filling</u>				
8	Paving of slabs laid with 20mm open joints in both directions	m2	1	320.00	320.00
9	Paving of slabs laid with butt joints	m2	1	320.00	320.00
	<u>Paving of 500 x 500 x 50mm precast concrete paving slabs laid on 30mm thick river sand bed including preparation of ground or filling</u>				
10	Paving of slabs laid with 20mm open joints in both directions	m2	1	320.00	320.00
11	Paving of slabs laid with butt joints	m2	1	320.00	320.00
	<u>Paving of 900 x 450 x 50mm precast concrete paving slabs laid on 30mm thick river sand bed including preparation of ground or filling</u>				
12	Paving of slabs laid with 20mm open joints in both directions	m2	1	340.00	340.00
13	Paving of slabs laid with butt joints	m2	1	340.00	340.00
	<u>Paving of 450 x 450 x 50mm precast concrete paving slabs with a non-slip checker finish laid on 30mm thick river sand bed including preparation of ground or filling</u>				
14	Paving of slabs laid with 20mm open joints in both directions	m2	1	340.00	340.00
15	Paving of slabs laid with butt joints	m2	1	340.00	340.00
	<u>Paving of 300 x 300 x 50mm precast concrete paving slabs with an exposed aggregate finish including bedding, jointing and pointing</u>				
16	Paving of slabs laid on 30mm thick mortar bed on concrete with butt joints	m2	1	320.00	320.00
	<u>Paving of 450 x 450 x 50mm precast concrete paving slabs with an exposed aggregate finish laid on 30mm thick river sand bed including preparation of ground or filling</u>				
17	Paving of slabs laid with 20mm open joints in both directions	m2	1	320.00	320.00
18	Paving of slabs laid with butt joints	m2	1	320.00	320.00
	<u>Paving of 500 x 500 x 50mm precast concrete paving slabs with an exposed aggregate finish laid on 30mm thick river sand bed including preparation of ground or filling</u>				

19	Paving of slabs laid with 20mm open joints in both directions	m2	1	370.00	370.00
20	Paving of slabs laid with butt joints	m2	1	370.00	370.00
<u>PRECAST TERRAZZO RISERS, TREADS, PERGOLA BEAMS, ETC</u>					
<u>Precast, polished terrazzo including bedding, jointing and pointing</u>					
21	1 000 x 250 x 20mm Thick riser 270mm long finished on face	No	1	450.00	450.00
22	1 000 x 250 x 20mm Thick riser 270mm long finished on face and one end	No	1	460.00	460.00
23	1 000 x 300 x 20mm Thick tread 320mm long finished on top, front edge, one end and 20mm wide return along bottom edge, with 1 000 x 50mm non-slip carborundum insert in top	No	1	480.00	480.00
24	50mm Diameter hole through 20mm thick unit	No	1	120.00	120.00
25	40 x 40mm Hole through 20mm thick unit	No	1	150.00	150.00
<u>PRECAST CONCRETE CLADDING ETC</u>					
<u>Precast concrete wall lining (PC R500 per m2) to external facades, of 30mm thick slabs with stone finish on exposed surfaces and with continuous joints in both directions, including necessary grooves, bedding, jointing, pointing, cramps, dowels, mortices and grouting</u>					
26	Wall lining of slabs not exceeding 0,5m ² on face	m2	1	700.00	700.00
27	Wall lining of slabs exceeding 1m ² and not exceeding 2m ² on face	m2	1	700.00	700.00
28	Wall lining of slabs not exceeding 0,5m ² on face and circular on plan to 1 000mm radius	m2	1	700.00	700.00
29	Finished edges to 30mm thick wall lining	m	1	300.00	300.00
30	Circular cutting	m	1	200.00	200.00
31	50mm Diameter hole through 30mm thick unit	No	1	150.00	150.00
32	40 x 40mm Hole through 30mm thick unit	No	1	150.00	150.00
<u>Joint sealants</u>					
33	Silicone Polyurethane sealing compound in 20mm wide joints between units including backing strips, bond breakers, primer, etc	m	1	55.00	55.00
<u>PRECAST CONCRETE WINDOW SURROUNDS</u>					
<u>General</u>					
Window surrounds are to be checked at delivery for squareness. Surrounds out of square will be rejected.					
Prices are to include for building into brick walls as single units or combinations of two or more units and for bedding solid all round in mortar and pointing on both sides with square recessed joints.					
Note: Aluminium infill windows, glazing and pointing with sealing compound are measured elsewhere.					
<u>"Winblok" modular precast concrete window surrounds or equal Architect approved finished smooth on exposed surfaces, including bedding, jointing and pointing:</u>					
34	Window surround comprising one Square Winblok Product Code WB44 Size 400 x 400mm fitted with central pivot aluminium winvent Product Code WV(A)44P all fitted in strict accordance with manufacturer's instructions	No	1	1,665.00	1,665.00
35	Window surround comprising one Square Winblok Product Code WB44 Size 400 x 400mm fitted with fixed aluminium winlouvre Product Code WLA44F all fitted in strict accordance with manufacturer's instructions	No	1	802.00	802.00
36	Window surround comprising one Square Winblok Product Code WB44 Size 400 x 400mm fitted with fixed steel winlouvre Product Code WLS44F all fitted in strict accordance with manufacturer's instructions	No	1	882.00	882.00
37	Window surround comprising one Square Winblok Product Code WB44 Size 400 x 400mm fitted aluminium burglar bars all fitted in strict accordance with manufacturer's instructions	No	1	210.00	210.00
38	Window surround comprising one Square Winblok Product Code WB44 Size 400 x 400mm fitted with fixed frame aluminium winvent Product Code WV(A)44F all fitted in strict accordance with manufacturer's instructions	No	1	608.00	608.00
39	Window surround comprising one Square Winblok Product Code WB44 Size 400 x 400mm fitted with top-hung winvent Product Code WV(A)44T all fitted in strict accordance with manufacturer's instructions	No	1	880.00	880.00
40	Window surround comprising one Square Winblok Product Code WB66 Size 600 x 600mm fitted with central pivot aluminium winvent Product Code WV(A)66P all fitted in strict accordance with manufacturer's instructions	No	1	1,587.00	1,587.00

41	Window surround comprising one Square Winblok Product Code WB66 Size 600 x 600mm fitted with fixed aluminium winlouvre Product Code WL(A)66F all fitted in strict accordance with manufacturer's instructions	No	1	1,460.00	1,460.00
42	Window surround comprising one Square Winblok Product Code WB66 Size 600 x 600mm fitted with fixed aluminium winlouvre Product Code WL(S)66F all fitted in strict accordance with manufacturer's instructions	No	1	1,572.00	1,572.00
43	Window surround comprising one Square Winblok Product Code WB66 Size 600 x 600mm fitted aluminium burglar bars all fitted in strict accordance with manufacturer's instructions	No	1	325.00	325.00
44	Window surround comprising one Square Winblok Product Code WB66 Size 600 x 600mm fitted with fixed frame aluminium winvent Product Code WV(A)66F all fitted in strict accordance with manufacturer's instructions	No	1	666.00	666.00
45	Window surround comprising one Square Winblok Product Code WB66 Size 600 x 600mm fitted with top-hung winvent Product Code WV(A)66T all fitted in strict accordance with manufacturer's instructions	No	1	1,154.00	1,154.00
46	Window surround comprising one Square Winblok Product Code WBWC Size 690 x 690mm fitted with central pivot aluminium winvent Product Code WV(A)WCP all fitted in strict accordance with manufacturer's instructions	No	1	2,000.00	2,000.00
47	Window surround comprising one Square Winblok Product Code WBWC Size 690 x 690mm fitted with fixed aluminium winlouvre Product Code WL(A)(S)WCF all fitted in strict accordance with manufacturer's instructions	No	1	2,155.00	2,155.00
48	Window surround comprising one Square Winblok Product Code WBWC Size 690 x 690mm fitted aluminium burglar bars all fitted in strict accordance with manufacturer's instructions	No	1	403.00	403.00
49	Window surround comprising one Square Winblok Product Code WBWC Size 690 x 690mm fitted with fixed frame aluminium winvent Product Code WV(A)WCF all fitted in strict accordance with manufacturer's instructions	No	1	1,119.00	1,119.00
50	Window surround comprising one Square Winblok Product Code WBWC Size 690 x 690mm fitted with top-hung winvent Product Code WV(A)WCT all fitted in strict accordance with manufacturer's instructions	No	1	1,431.00	1,431.00
51	Window surround comprising one Square Winblok Product Code WB88 Size 800 x 800mm fitted with central pivot aluminium winvent Product Code WV(A)88P all fitted in strict accordance with manufacturer's instructions	No	1	2,096.00	2,096.00
52	Window surround comprising one Square Winblok Product Code WB88 Size 800 x 800mm fitted with fixed aluminium winlouvre Product Code WL(A)88F all fitted in strict accordance with manufacturer's instructions	No	1	2,727.00	2,727.00
53	Window surround comprising one Square Winblok Product Code WB88 Size 800 x 800mm fitted with fixed steel winlouvre Product Code WL(S)88F all fitted in strict accordance with manufacturer's instructions	No	1	2,970.00	2,970.00
54	Window surround comprising one Square Winblok Product Code WB88 Size 800 x 800mm fitted aluminium burglar bars all fitted in strict accordance with manufacturer's instructions	No	1	510.00	510.00
55	Window surround comprising one Square Winblok Product Code WB88 Size 800 x 800mm fitted with fixed frame aluminium winvent Product Code WV(A)88F all fitted in strict accordance with manufacturer's instructions	No	1	1,169.00	1,169.00
56	Window surround comprising one Square Winblok Product Code WB88 Size 800 x 800mm fitted with top-hung winvent Product Code WV(A)88T all fitted in strict accordance with manufacturer's instructions	No	1	1,539.00	1,539.00
57	Window surround comprising one Square Corner Winblok Product Code BWCC Size 690 x 690mm fitted with top-hung winvent Product Code WV(A)WCCT all fitted in strict accordance with manufacturer's instructions	No	1	469.00	469.00
58	Window surround comprising one Square Corner Winblok Product Code BWCC Size 690 x 690mm fitted with central pivot winvent Product Code WV(A)WCCP all fitted in strict accordance with manufacturer's instructions	No	1	470.00	470.00
59	Window surround comprising one Square Corner Winblok Product Code BWCC Size 690 x 690mm fitted with fixed frame winvent Product Code WV(A)WCCF all fitted in strict accordance with manufacturer's instructions	No	1	470.00	470.00
60	Window surround comprising one Square Corner Winblok Product Code BWCC Size 690 x 690mm fitted with fixed aluminium winlouvre Product Code WV(A)WCC all fitted in strict accordance with manufacturer's instructions	No	1	470.00	470.00
61	Window surround comprising one Square Corner Winblok Product Code WB66 Size 600 x 600mm fitted with wingrid in reinforced concrete all fitted in strict accordance with manufacturer's instructions	No	1	352.00	352.00
62	Window surround comprising one Square Corner Winblok Product Code WB88C Size 800 x 800mm fitted with wingrid in reinforced concrete all fitted in strict accordance with manufacturer's instructions	No	1	630.00	630.00
63	Window surround comprising one circular winblok Product Code WB60Z outside radius 295mm fitted with fixed aluminium winlouvre Product code WL(S)60Z	No	1	3,615.00	3,615.00
64	Window surround comprising one circular winblok Product Code WB80Z outside radius 395mm fitted with fixed aluminium winlouvre Product code WL(S)80Z	No	1	6,304.00	6,304.00
<u>PREFABRICATED CONCRETE BEAMS</u>					

	<u>Prefabricated prestressed concrete beams in composite slabs</u>				
65	150 x 58mm Beams with 4mm dia reinforcing wires, in lengths not exceeding 5m	m	1	163.00	163.00
66	150 x 58mm Beams with 4mm dia reinforcing wires, in lengths exceeding 5m and not exceeding 7.5m	m	1	167.00	167.00
67	150 x 58mm Beams with 4mm dia reinforcing wires, in lengths exceeding 7.5m and not exceeding 10m	m	1	170.00	170.00
	<u>PREFABRICATED BLOCK BEAMS</u>				
	<u>Prefabricated block beams in composite slabs</u>				
68	150 x 58mm Beams with 4mm dia reinforcing wires, in lengths not exceeding 5m	m	1	163.00	163.00
69	150 x 58mm Beams with 4mm dia reinforcing wires, in lengths exceeding 5m and not exceeding 7.5m	m	1	167.00	167.00
70	150 x 58mm Beams with 4mm dia reinforcing wires, in lengths exceeding 7.5m and not exceeding 10m	m	1	168.00	168.00
	<u>PRECAST CONCRETE COPINGS, LINTELS ETC</u>				
	<u>Precast Concrete Lintols, Sills Copings etc.</u>				
71	110 x 75mm Lintels in lengths not exceeding 3m	m	1	120.00	120.00
72	140 x 75mm Lintels in lengths not exceeding 3m	m	1	130.00	130.00
73	140 x 140mm Lintels in lengths not exceeding 3m	m	1	140.00	140.00
74	140 x 140mm x 3m Precast concrete post	m	1	140.00	140.00
75	115 x 76mm Load spreader precast lintol 900mm long and building into brickwork in 1:1mortar	No	1	125.00	125.00
	<u>PRECAST CONCRETE BOLLARDS</u>				
76	Embedded bollards	No	1	1,466.00	1,466.00
77	Retractable/Removal bollards	No	1	1,750.00	1,750.00
	<u>Corobrik Concrete Blockwork Copings, Sills etc or equal Architect approved</u>				
78	Blockwork coping to 190mm block wall to be Corobrik® Coroblok M200 sill blocks set flush	m	1	120.00	120.00
79	Blockwork 190mm wide lintel to be Corobrik® Coroblok M200 lintel blocks filled solid with 19MPa 19mm concrete including R20 steel reinforcing bars embedded in concrete	m	1	105.00	105.00
80	Blockwork 390mm wide lintel to be Corobrik® Coroblok M200 lintel blocks filled solid with 19MPa 19mm concrete including R20 steel reinforcing bars embedded in concrete	m	1	140.00	140.00
81	Blockwork 140mm wide lintel to be Corobrik® Coroblok M150 lintel blocks filled solid with 19MPa 19mm concrete including R20 steel reinforcing bars embedded in concrete	m	1	120.00	120.00
82	Blockwork 290mm wide lintel to be Corobrik® Coroblok M150 lintel blocks filled solid with 19MPa 19mm concrete including R20 steel reinforcing bars embedded in concrete	m	1	130.00	130.00
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing:</u>				
81	750mm Diameter concrete manhole ring 1000mm long set vertically on prepared filling (elsewhere measured) and filling with mass concrete (elsewhere measured) as base for veranda pole (elsewhere measured).	No	1	5,700.00	5,700.00
	Concrete manhole cover	No	1	900.00	900.00
	<u>PRECAST CONCRETE BASIN TROUGH</u>				
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing:</u>				
82	Single laundry tub, size 760 x 635 x 900mm high with supports mortared into position and onto trough	No	1	1,250.00	1,250.00
83	Twin laundry tub, size 1 080 x 705mm wide with reinforcing to extend from below supports, mortared into position and onto trough	No	1	1,850.00	1,850.00
	<u>BALUSTRADING</u>				
	<u>Betcrete Concrete Balustrading on Concrete Slab or equal Architect approved</u>				
84	980mm high in Stair balustrade design code 1BS1000STR, fixed to concrete slab with cast-in round bar drilled into the slab and epoxy fixed.	m	1	1,150.00	1,150.00
85	980mm high in Barrister design code 1BS1000BAR, fixed to concrete slab with cast-in round bar drilled into the slab and epoxy fixed.	m	1	1,150.00	1,150.00

	<u>Blockwork in class II mortar</u>				
7	90mm block walls	m2	1	205.00	205.00
8	90mm block walls circular on plan	m2	1	230.00	230.00
9	140mm block walls	m2	1	295.00	295.00
10	140mm block walls circular on plan	m2	1	316.00	316.00
11	190mm block walls	m2	1	375.00	375.00
12	190mm block walls circular on plan	m2	1	385.00	385.00
13	190 x 390 x 190mm high "U" block in ring beams including filling cavity with 25 MPa concrete well tamped around and including one 6mm diameter high tensile steel reinforcing bar	m	1	285.00	285.00
	<u>BLOCKWORK SUNDRIES</u>				
	<u>Fair face to blockwork pointed with flush horizontal and vertical joints</u>				
14	Extra over for fair face	m2	1	160.00	160.00
	<u>Fair face to blockwork pointed with recessed horizontal and vertical joints</u>				
15	Extra over for fair face	m2	1	160.00	160.00
	<u>Bagging of 1:3 cement and sand mixture</u>				
16	On block walls	m2	1	45.00	45.00
	<u>Cement wash of 1:3 liquid cement and sand mixture applied with a brush</u>				
17	On block walls	m2	1	45.00	45.00
	<u>FACE BLOCKWORK</u>				
	<u>390 x 90 x 190mm face blocks in class II mortar pointed with flush horizontal and vertical joints</u>				
18	Extra over 190mm skin of blockwork for face blockwork	m2	1	160.00	160.00
19	90mm cut block linings to concrete	m2	1	283.00	283.00
20	90mm Block walls pointed both sides	m2	1	273.00	273.00
21	140mm Block walls pointed both sides	m2	1	290.00	290.00
22	190mm Block walls pointed both sides	m2	1	340.00	340.00
23	90mm Block walls pointed both sides in foundations (Provisional)	m2	1	273.00	273.00
24	140mm Block walls pointed both sides in foundations (Provisional)	m2	1	290.00	290.00
25	190mm Block walls pointed both sides in foundations (Provisional)	m2	1	340.00	340.00
26	90mm Block walls pointed on both sides circular on plan	m2	1	300.30	300.30
27	140mm Block walls pointed on both sides circular on plan	m2	1	319.00	319.00
28	190mm Block walls pointed on both sides circular on plan	m2	1	374.00	374.00
	<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>				
29	Piers	m3	1	2,910.00	2,910.00
30	Half brick walls.	m2	1	260.00	260.00
31	Half brick walls circular on plan	m2	1	280.00	280.00
32	One brick walls.	m2	1	470.00	470.00
33	One brick walls circular on plan	m2	1	510.00	510.00
34	280mm Hollow walls of two half brick skins (no wire ties)	m2	1	630.00	630.00
35	280mm Hollow walls of two half brick skins including wire ties	m2	1	637.00	637.00
36	280mm Hollow walls of two half brick skins including wire ties circular on plan	m2	1	637.00	637.00
37	230mm Solid walls	m2	1	601.00	601.00

38	330mm Hollow walls of two half brick skins	m2	1	650.00	650.00
39	330mm Hollow walls of two half brick skins circular on plan	m2	1	670.00	670.00
40	One and half brick walls	m2	1	888.00	888.00
41	One and half brick walls circular on plan	m2	1	919.00	919.00
42	395mm Hollow walls of one half brick and one brick skins including wire ties	m2	1	927.00	927.00
43	395mm Hollow walls of one half brick and one one brick skins including wire ties circular on plan	m2	1	913.00	913.00
44	Two brick walls	m2	1	1,152.00	1,152.00
45	Two brick walls circular on plan	m2	1	1,183.00	1,183.00
	<u>Brickwork of concrete bricks in class I mortar</u>				
46	Piers	m3	1	2,292.00	2,292.00
47	One brick walls	m2	1	456.00	456.00
48	One brick walls circular on plan	m2	1	484.00	484.00
49	280mm Hollow walls of two half brick skins (no wire ties)	m2	1	484.00	484.00
50	280mm Hollow walls of two half brick skins including wire ties	m2	1	492.00	492.00
51	280mm Hollow walls of two half brick skins including wire ties circular on plan	m2	1	492.00	492.00
52	230mm Solid walls	m2	1	456.00	456.00
53	One and a half brick walls	m2	1	670.00	670.00
54	One and a half brick walls circular on plan	m2	1	702.00	702.00
55	395mm Hollow walls of one half brick and one one brick skins including wire ties	m2	1	709.00	709.00
56	395mm Hollow walls of one half brick and one one brick skins including wire ties circular on plan	m2	1	709.00	709.00
57	Two brick walls	m2	1	862.00	862.00
58	Two brick walls circular on plan	m2	1	893.00	893.00
	<u>Brickwork of calcium silicate bricks in class I mortar</u>				
59	Piers	m3	1	2,229.00	2,229.00
60	One brick walls	m2	1	441.00	441.00
61	One brick walls circular on plan	m2	1	470.00	470.00
62	280mm Hollow walls of two half brick skins (no wire ties)	m2	1	470.00	470.00
63	280mm Hollow walls of two half brick skins including wire ties	m2	1	478.00	478.00
64	280mm Hollow walls of two half brick skins including wire ties circular on plan	m2	1	478.00	478.00
65	230mm Solid walls	m2	1	441.00	441.00
66	One and a half brick walls	m2	1	648.00	648.00
67	One and a half brick walls circular on plan	m2	1	680.00	680.00
68	395mm Hollow walls of one half brick and one one brick skins including wire ties	m2	1	687.00	687.00
69	395mm Hollow walls of one half brick and one one brick skins including wire ties circular on plan	m2	1	687.00	687.00
70	Two brick walls	m2	1	833.00	833.00
71	Two brick walls circular on plan	m2	1	864.00	864.00
	<u>Brickwork of NFP clay bricks in class I mortar</u>				
72	Piers	m3	1	2,570.00	2,570.00
73	One brick walls	m2	1	521.00	521.00
74	One brick walls circular on plan	m2	1	550.00	550.00
75	280mm Hollow walls of two half brick skins (no wire ties)	m2	1	550.00	550.00
76	280mm Hollow walls of two half brick skins including wire ties	m2	1	557.00	557.00

77	280mm Hollow walls of two half brick skins including wire ties circular on plan	m2	1	557.00	557.00
78	230mm Solid walls	m2	1	512.00	512.00
79	One and a half brick walls	m2	1	768.00	768.00
80	One and a half brick walls circular on plan	m2	1	800.00	800.00
81	395mm Hollow walls of one half brick and one one brick skins including wire ties	m2	1	807.00	807.00
82	395mm Hollow walls of one half brick and one one brick skins including wire ties circular on plan	m2	1	807.00	807.00
83	Two brick walls	m2	1	993.00	993.00
84	Two brick walls circular on plan	m2	1	1,024.00	1,024.00
<u>Brickwork of NFPE clay bricks (14 MPa nominal compressive strength) in class I mortar in loadbearing walls etc</u>					
85	Piers	m3	1	2,747.00	2,747.00
86	One brick walls	m2	1	563.00	563.00
87	One brick walls circular on plan	m2	1	592.00	592.00
88	280mm Hollow walls of two half brick skins (no wire ties)	m2	1	592.00	592.00
89	280mm Hollow walls of two half brick skins including wire ties	m2	1	599.00	599.00
90	280mm Hollow walls of two half brick skins including wire ties circular on plan	m2	1	599.00	599.00
91	230mm Solid walls	m2	1	563.00	563.00
92	One and a half brick walls	m2	1	830.00	830.00
93	One and a half brick walls circular on plan	m2	1	862.00	862.00
94	395mm Hollow walls of one half brick and one one brick skins including wire ties	m2	1	869.00	869.00
95	395mm Hollow walls of one half brick and one one brick skins including wire ties circular on plan	m2	1	869.00	869.00
96	Two brick walls	m2	1	1,076.00	1,076.00
97	Two brick walls circular on plan	m2	1	1,107.00	1,107.00
<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>Brickwork of NFX clay bricks (14 MPa nominal compressive strength) in class I mortar</u>					
98	Piers	m3	1	3,282.00	3,282.00
99	L-shaped piers	m3	1	3,282.00	3,282.00
100	H-shaped piers	m3	1	3,282.00	3,282.00
101	Half brick walls	m2	1	341.00	341.00
102	Half brick walls circular on plan	m2	1	358.00	358.00
103	Half brick walls against existing surfaces	m2	1	341.00	341.00
104	Half brick walls against waterproofing	m2	1	341.00	341.00
105	Half brick walls against waterproofing circular on plan	m2	1	358.00	358.00
106	Half brick walls in beamfilling	m2	1	358.00	358.00
107	Half brick walls in beamfilling circular on plan	m2	1	341.00	341.00
108	Half brick linings to concrete	m2	1	341.00	341.00
109	Half brick linings to concrete circular on plan	m2	1	341.00	341.00
110	Half brick linings 50mm away from concrete	m2	1	341.00	341.00
111	Half brick linings 50mm away from concrete circular on plan	m2	1	341.00	341.00
112	One brick walls	m2	1	601.00	601.00
113	One brick walls circular on plan	m2	1	630.00	630.00
114	One brick walls against existing surfaces	m2	1	602.00	602.00

115	One brick walls in beamfilling	m2	1	630.00	630.00
116	One brick walls in beamfilling circular on plan	m2	1	630.00	630.00
117	One brick walls of two half brick skins bagged and sealed	m2	1	684.00	684.00
118	280mm Hollow walls of two half brick skins (no wire ties)	m2	1	630.00	630.00
119	280mm Hollow walls of two half brick skins including wire ties	m2	1	637.00	637.00
120	280mm Hollow walls of two half brick skins including wire ties circular on plan	m2	1	637.00	637.00
121	230mm Solid walls	m2	1	601.00	601.00
122	One and a half brick walls	m2	1	888.00	888.00
123	One and a half brick walls circular on plan	m2	1	919.00	919.00
124	395mm Hollow walls of one half brick and one one brick skins including wire ties	m2	1	927.00	927.00
125	395mm Hollow walls of one half brick and one one brick skins including wire ties circular on plan	m2	1	913.00	913.00
126	Two brick walls	m2	1	1,152.00	1,152.00
127	Two brick walls circular on plan	m2	1	1,183.00	1,183.00
128	Half brick walls in lintels	m2	1	341.00	341.00
129	One brick walls in lintels	m2	1	601.00	601.00
130	230mm Solid walls in lintels	m2	1	601.00	601.00
131	One and a half brick walls in lintels	m2	1	888.00	888.00
132	Two brick walls in lintels	m2	1	1,152.00	1,152.00
	<u>Brickwork of concrete bricks in class I mortar</u>				
133	Piers	m3	1	2,292.00	2,292.00
134	Brick-on-edge walls	m2	1	195.00	195.00
135	Half brick walls	m2	1	260.00	260.00
136	Half brick walls circular on plan	m2	1	275.00	275.00
137	Half brick walls against existing surfaces	m2	1	260.00	260.00
138	Half brick linings to concrete	m2	1	260.00	260.00
139	Half brick linings to concrete circular on plan	m2	1	275.00	275.00
140	One brick walls	m2	1	465.00	465.00
141	One brick walls circular on plan	m2	1	484.00	484.00
142	One brick walls against existing surfaces	m2	1	456.00	456.00
143	One brick walls in beamfilling	m2	1	484.00	484.00
144	280mm Hollow walls of two half brick skins including wire ties	m2	1	492.00	492.00
145	230mm Solid walls	m2	1	456.00	456.00
146	One and a half brick walls	m2	1	670.00	670.00
147	Two brick walls	m2	1	862.00	862.00
148	One brick walls in lintels	m2	1	456.00	456.00
149	230mm Solid walls in lintels	m2	1	456.00	456.00
	<u>Brickwork of calcium silicate bricks in class I mortar</u>				
150	Piers	m3	1	2,229.00	2,229.00
151	Brick-on-edge walls	m2	1	165.00	165.00
152	Half brick walls	m2	1	222.00	222.00
153	Half brick walls circular on plan	m2	1	237.00	237.00

154	Half brick walls against existing surfaces	m2	1	222.00	222.00
155	Half brick linings to concrete	m2	1	222.00	222.00
156	Half brick linings to concrete circular on plan	m2	1	237.00	237.00
157	One brick walls	m2	1	441.00	441.00
158	One brick walls circular on plan	m2	1	470.00	470.00
159	One brick walls against existing surfaces	m2	1	441.00	441.00
160	One brick walls in beamfilling	m2	1	470.00	470.00
161	280mm Hollow walls of two half brick skins including wire ties	m2	1	442.00	442.00
162	230mm Solid walls	m2	1	441.00	441.00
163	One and a half brick walls	m2	1	648.00	648.00
164	Two brick walls	m2	1	833.00	833.00
165	One brick walls in lintels	m2	1	441.00	441.00
166	230mm Solid walls in lintels	m2	1	441.00	441.00
	<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar:</u>				
167	Piers	m3	1	2,747.00	2,747.00
168	Brick-on-edge walls	m2	1	240.00	240.00
169	Half brick walls.	m2	1	320.00	320.00
170	Half brick walls circular on plan	m2	1	375.00	375.00
171	Half brick walls against existing surfaces	m2	1	320.00	320.00
172	Half brick linings to concrete	m2	1	320.00	320.00
173	Half brick linings to concrete circular on plan	m2	1	335.00	335.00
174	One brick walls.	m2	1	563.00	563.00
175	One brick walls circular on plan	m2	1	591.00	591.00
176	One brick walls against existing surfaces	m2	1	563.00	563.00
177	One brick walls in beamfilling	m2	1	591.00	591.00
178	280mm Hollow walls of two half brick skins including wire ties	m2	1	599.00	599.00
179	230mm Solid walls	m2	1	563.00	563.00
180	One and a half brick walls	m2	1	830.00	830.00
181	330mm Hollow walls of two half brick skins	m2	1	650.00	650.00
182	330mm Hollow walls of two half brick skins circular on plan	m2	1	670.00	670.00
183	One and half brick walls	m2	1	888.00	888.00
184	One and half brick walls circular on plan	m2	1	919.00	919.00
185	Two brick walls	m2	1	1,076.00	1,076.00
186	One brick walls in lintels	m2	1	563.00	563.00
187	230mm Solid walls in lintels	m2	1	563.00	563.00
188	Two brick walls circular on plan	m2	1	1,183.00	1,183.00
	<u>BRICKWORK AND BLOCKWORK SUNDRIES</u>				
	<u>General</u>				
189	Cutting toothings and bonding new brickwork to existing	m2	1	47.00	47.00
190	Extra for building brickwork to battered face with each course set back 25mm	m2	1	55.00	55.00
191	Extra for building brickwork to battered face with sloping bed joints	m2	1	55.00	55.00
192	Extra for building brickwork to oversailing face with each course projecting 25mm	m2	1	55.00	55.00

193	Splayed mortar fillet one course high in 105mm cavity	m	1	50.00	50.00
194	Splayed mortar fillet two courses high in 105mm cavity	m	1	50.00	50.00
195	Closing 105mm cavity of hollow wall vertically with brickwork half brick wide	m	1	38.00	38.00
196	Closing 105mm cavity of hollow wall horizontally with one course of brickwork	m	1	38.00	38.00
197	Closing 105mm cavity of hollow wall horizontally with two courses of brickwork	m	1	55.00	55.00
198	Closing 105mm cavity at raking top of hollow wall with two courses of brickwork	m	1	55.00	55.00
199	450 x 600mm Horizontal flue in brickwork including rendering smooth in mortar	m	1	8.00	8.00
200	450 x 600mm Vertical flue in brickwork including rendering smooth in mortar	m	1	8.00	8.00
201	450 x 600mm Raking flue in brickwork including rendering smooth in mortar	m	1	8.00	8.00
202	Extra for rough segmental arch in half brick wall 1200mm span and 350mm high formed of 1 brick-on-edge header ring(s) including centre	No	1	300.00	300.00
203	Extra for rough segmental arch in one brick wall 1200mm span and 350mm high formed of 1 brick-on-edge header ring(s) including centre	No	1	300.00	300.00
204	Extra for 1200mm diameter rough semi-circular arch in half brick wall formed of 1 brick-on-edge header ring(s) including centre	No	1	300.00	300.00
205	Extra for 1200mm radius rough semi-circular arch in one brick wall formed of 1 brick-on-edge header ring(s) including centre	No	1	300.00	300.00
206	Extra for 900mm diameter rough bullseye arch in half brick wall formed of 1 brick-on-edge header ring(s) including centre	No	1	300.00	300.00
207	Extra for 900mm diameter rough bullseye arch in one brick wall formed of 1 brick-on-edge header ring(s) including centre	No	1	300.00	300.00
208	Extra of 900mm diameter 115mm deep rough semi-circular niche in brickwork including centre	No	1	300.00	300.00
<u>Fair face to brickwork in horizontal stretcher bond pointed with flush horizontal and vertical joints</u>					
209	Extra for fair face	m2	1	250.00	250.00
210	Half brick walls pointed on both sides	m2	1	302.00	302.00
<u>Fair face to brickwork in horizontal stretcher bond pointed with recessed horizontal and flush vertical joints</u>					
211	Extra for fair face	m2	1	250.00	250.00
212	Half brick walls pointed on both sides	m2	1	302.00	302.00
<u>Fair face to brickwork in horizontal stretcher bond pointed with recessed horizontal and vertical joints</u>					
213	Extra for fair face	m2	1	250.00	250.00
214	Half brick walls pointed on both sides	m2	1	302.00	302.00
<u>Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixeal" bitumen emulsion waterproofing coating:</u>					
215	To walls (Provisional).	m2	1	40.00	40.00
216	On brick walls, piers, etc	m2	1	40.00	40.00
217	On concrete ceilings, beams, etc including removing fins, irregularities, etc	m2	1	40.00	40.00
218	On concrete walls, columns, etc including removing fins, irregularities, etc	m2	1	40.00	40.00

	<u>Joint forming material in movement joints:</u>				
219	10mm Fibre board built in vertically between brick skins	m2	1	85.00	85.00
220	10mm Fibre board built in vertically through brick walls	m2	1	85.00	85.00
221	10mm Bitumen impregnated soft board built in vertically between brick skin and reinforced concrete columns for the full height to form an expansion joint.	m2	1	150.00	150.00
222	10mm Bitumen impregnated soft board built in vertically between brick skin and concrete slabs to form an expansion joint.	m2	1	150.00	150.00
223	25mm Expanded polystyrene (X Grade) built in vertically between brick skins	m2	1	75.00	75.00
224	25mm Expanded polystyrene (X - Grade) with one tear off strip built in vertically through brick walls	m2	1	75.00	75.00
225	10mm thick strip jointex placed along the concrete and brick interface to create a movement joint impregnated fibre board built in vertically between brick skins.	m2	1	75.00	75.00
226	12mm Bitumen impregnated fibre board built in vertically between brick skins.	m2	1	45.00	45.00
227	12mm Bitumen impregnated fibre board built in vertically between brickwork and concrete work.	m2	1	45.00	45.00
	<u>Steel bar reinforcement</u>				
228	8mm Diameter mild steel bars built in horizontally	t	1	21,297.00	21,297.00
229	8mm Diameter high tensile steel bars built in horizontally	t	1	22,085.00	22,085.00
230	8mm Diameter galvanised mild steel bars built in horizontally	t	1	21,297.00	21,297.00
231	8mm Diameter galvanised high tensile steel bars built in horizontally	t	1	22,085.00	22,085.00
	<u>Brickwork reinforcement:</u>				
232	75mm Wide reinforcement built in horizontally	m	1	8.00	8.00
233	150mm Wide reinforcement built in horizontally	m	1	8.00	8.00
234	115mm Wide reinforcement built in horizontally.	m	1	8.00	8.00
235	Ditto, but in foundations (Provisional).	m	1	8.00	8.00
236	230mm Wide reinforcement built in horizontally.	m	1	8.00	8.00
237	Ditto, but in foundations (Provisional).	m	1	8.00	8.00
	<u>Prestressed fabricated lintels:</u>				
238	110 x 75mm Lintels in lengths exceeding 1.5m but not exceeding 3m	m	1	145.00	145.00
239	110 x 75mm Lintels in lengths exceeding 3m but not not exceeding 6m	m	1	145.00	145.00
240	150 x 75mm Lintels in lengths exceeding 4m but not not exceeding 3m	m	1	145.00	145.00
241	90 x 75mm Lintels in lengths exceeding 5m but not not exceeding 4m	m	1	145.00	145.00
242	115 x 75mm Lintels in lengths not exceeding 3m.	m	1	145.00	145.00
	<u>Galvanised wire ties etc</u>				
243	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	1	10.00	10.00
244	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end cast into concrete	No	1	10.00	10.00
	<u>Galvanised hoop iron cramps, ties, etc</u>				
245	40 x 1,6mm "Tibond" wall tie strips shot pinned to concrete and with ties bent out and built into brickwork	m	1	35.00	35.00
246	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	1	10.00	10.00
247	30 x 1,6mm Wall tie 500mm long with one end cast into concrete and other end built into brickwork	No	1	10.00	10.00
248	30 x 1,6mm Wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork	No	1	10.00	10.00
249	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	1	30.00	30.00
250	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end cast into concrete	No	1	30.00	30.00
251	30 x 1,6mm Ceiling hanger 1m long with one end fixed to timber and other end shot pinned to concrete	No	1	18.00	18.00

	<u>Turning pieces:</u>				
252	100mm Wide turning piece to lintels etc.	m	1	55.00	55.00
	<u>Cramps, ties, etc:</u>				
253	30 x 2mm Galvanized roof tie 1500mm long with one end fixed to timber and other built into brickwork or concrete.	No	1	40.00	40.00
254	40 x 1,6mm "Tibond" wall tie strips shot pinned to concrete and with ties bent out and built into brickwork	No	1	40.00	40.00
	<u>Air bricks etc:</u>				
255	229 x 76mm Clay vermin proof air brick	No	1	47.00	47.00
256	229 x 152mm Clay vermin proof air brick	No	1	54.00	54.00
257	230 x 160mm Cement vermin proof air brick	No	1	30.00	30.00
258	233 x 175mm Foam plastic air vent	No	1	35.00	35.00
259	262 x 210mm Fibrous plaster air vent	No	1	84.00	84.00
260	262 x 185mm Fibrous plaster air vent	No	1	50.00	50.00
	<u>Sundries:</u>				
261	Building ends of timber beams into brick walls and caulk with cement mortar.	No	1	100.00	100.00
262	Splayed mortar fillet one course high in 50mm cavity	m	1	120.00	120.00
263	Closing 50mm cavity of hollow wall vertically with brickwork half brick wide	m	1	120.00	120.00
264	Closing 50mm cavity of hollow wall horizontally with one course of brickwork	m	1	120.00	120.00
265	Closing 50mm cavity of hollow wall horizontally with two courses of brickwork	m	1	120.00	120.00
	<u>FACE BRICKWORK</u>				
	<u>"Corobrik Agate Travertine Imperial FBX" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>				
266	Extra over brickwork for face brickwork	m2	1	450.00	450.00
267	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	450.00	450.00
268	Extra over brickwork for face brickwork circular on plan	m2	1	495.00	495.00
269	Extra over brickwork for face brickwork in soldier courses	m2	1	450.00	450.00
270	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	450.00	450.00
271	110mm cut linings to concrete	m2	1	815.00	815.00
272	110mm cut linings to concrete circular on plan	m2	1	860.00	860.00
273	Half brick walls pointed on both sides	m2	1	815.00	815.00
274	One brick wall pointed on both sides	m2	1	1,700.00	1,700.00
275	Extra over brickwork for brick-on-flat header course band	m	1	220.00	220.00
276	Extra over brickwork for brick-on-edge header course band	m	1	220.00	220.00
277	Extra over brickwork for brick-on-end soldier course band	m	1	220.00	220.00
278	Extra over brickwork for brick-on-edge header course lintel	m	1	220.00	220.00
279	Extra over brickwork for brick-on-end soldier course lintel	m	1	220.00	220.00
280	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	220.00	220.00
	<u>"Corobrik Silver Grey Satin Imperial FBX" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>				
281	Extra over brickwork for face brickwork	m2	1	450.00	450.00
282	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	450.00	450.00
283	Extra over brickwork for face brickwork circular on plan	m2	1	450.00	450.00
284	Extra over brickwork for face brickwork in soldier courses	m2	1	450.00	450.00

285	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	450.00	450.00
286	110mm cut linings to concrete	m2	1	815.00	815.00
287	110mm cut linings to concrete circular on plan	m2	1	860.00	860.00
288	Half brick walls pointed on both sides	m2	1	815.00	815.00
289	One brick wall pointed on both sides	m2	1	1,508.00	1,508.00
290	Extra over brickwork for brick-on-flat header course band	m	1	220.00	220.00
291	Extra over brickwork for brick-on-edge header course band	m	1	220.00	220.00
292	Extra over brickwork for brick-on-end soldier course band	m	1	220.00	220.00
293	Extra over brickwork for brick-on-edge header course lintel	m	1	220.00	220.00
294	Extra over brickwork for brick-on-end soldier course lintel	m	1	220.00	220.00
295	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	220.00	220.00
<u>"Corobrik Golden Wheat Travertine Imperial FBX" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
296	Extra over brickwork for face brickwork	m2	1	210.00	210.00
297	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	210.00	210.00
298	Extra over brickwork for face brickwork circular on plan	m2	1	230.00	230.00
299	Extra over brickwork for face brickwork in soldier courses	m2	1	210.00	210.00
300	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	230.00	230.00
301	110mm cut linings to concrete	m2	1	491.00	491.00
302	110mm cut linings to concrete circular on plan	m2	1	541.00	541.00
303	Half brick walls pointed on both sides	m2	1	513.00	513.00
304	One brick wall pointed on both sides	m2	1	983.00	983.00
305	Extra over brickwork for brick-on-flat header course band	m	1	125.00	125.00
306	Extra over brickwork for brick-on-edge header course band	m	1	125.00	125.00
307	Extra over brickwork for brick-on-end soldier course band	m	1	125.00	125.00
308	Extra over brickwork for brick-on-edge header course lintel	m	1	125.00	125.00
309	Extra over brickwork for brick-on-end soldier course lintel	m	1	125.00	125.00
310	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	125.00	125.00
<u>"Corobrik Golden Harvest Rustic Imperial FBS" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
311	Extra over brickwork for face brickwork	m2	1	339.00	339.00
312	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	339.00	339.00
313	Extra over brickwork for face brickwork circular on plan	m2	1	373.00	373.00

314	Extra over brickwork for face brickwork in soldier courses	m2	1	339.00	339.00
315	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	373.00	373.00
316	110mm cut linings to concrete	m2	1	600.00	600.00
317	110mm cut linings to concrete circular on plan	m2	1	660.00	660.00
318	Half brick walls pointed on both sides	m2	1	690.00	690.00
319	One brick wall pointed on both sides	m2	1	1,380.00	1,380.00
320	Extra over brickwork for brick-on-flat header course band	m	1	158.00	158.00
321	Extra over brickwork for brick-on-edge header course band	m	1	158.00	158.00
322	Extra over brickwork for brick-on-end soldier course band	m	1	158.00	158.00
323	Extra over brickwork for brick-on-edge header course lintel	m	1	158.00	158.00
324	Extra over brickwork for brick-on-end soldier course lintel	m	1	158.00	158.00
325	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	158.00	158.00
<u>"Corobrik Topaz Travertine Imperial FBS" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
326	Extra over brickwork for face brickwork	m2	1	300.00	300.00
327	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	300.00	300.00
328	Extra over brickwork for face brickwork circular on plan	m2	1	330.00	330.00
329	Extra over brickwork for face brickwork in soldier courses	m2	1	300.00	300.00
330	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	330.00	330.00
331	110mm cut linings to concrete	m2	1	600.00	600.00
332	110mm cut linings to concrete circular on plan	m2	1	660.00	660.00
333	Half brick walls pointed on both sides	m2	1	690.00	690.00
334	One brick wall pointed on both sides	m2	1	1,250.00	1,250.00
335	Extra over brickwork for brick-on-flat header course band	m	1	158.00	158.00
336	Extra over brickwork for brick-on-edge header course band	m	1	158.00	158.00
337	Extra over brickwork for brick-on-end soldier course band	m	1	158.00	158.00
338	Extra over brickwork for brick-on-edge header course lintel	m	1	158.00	158.00
339	Extra over brickwork for brick-on-end soldier course lintel	m	1	158.00	158.00
<u>"Corobrik Nebraska Travertine Imperial FBS" clay face brick or equal Architect approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
340	Extra over brickwork for face brickwork	m2	1	185.00	185.00
341	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	185.00	185.00
342	Extra over brickwork for face brickwork circular on plan	m2	1	204.00	204.00
343	Extra over brickwork for face brickwork in soldier courses	m2	1	185.00	185.00
344	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	204.00	204.00
345	110mm cut linings to concrete	m2	1	491.00	491.00
346	110mm cut linings to concrete circular on plan	m2	1	541.00	541.00
347	Half brick walls pointed on both sides	m2	1	513.00	513.00
348	One brick wall pointed on both sides	m2	1	983.00	983.00
349	Extra over brickwork for brick-on-flat header course band	m	1	110.00	110.00
350	Extra over brickwork for brick-on-edge header course band	m	1	110.00	110.00
351	Extra over brickwork for brick-on-end soldier course band	m	1	110.00	110.00

352	Extra over brickwork for brick-on-edge header course lintel	m	1	110.00	110.00
353	Extra over brickwork for brick-on-end soldier course lintel	m	1	110.00	110.00
354	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	110.00	110.00
<u>"Corobrik Mopani Travertine Imperial FBS" clay face brick or equal Architect approved, Size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
355	Extra over brickwork for face brickwork	m2	1	150.00	150.00
356	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	150.00	150.00
357	Extra over brickwork for face brickwork circular on plan	m2	1	165.00	165.00
358	Extra over brickwork for face brickwork in soldier courses	m2	1	150.00	150.00
359	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	165.00	165.00
360	110mm cut linings to concrete	m2	1	443.00	443.00
361	110mm cut linings to concrete circular on plan	m2	1	487.00	487.00
362	Half brick walls pointed on both sides	m2	1	443.00	443.00
363	One brick wall pointed on both sides	m2	1	886.00	886.00
364	Extra over brickwork for brick-on-flat header course band	m	1	90.00	90.00
365	Extra over brickwork for brick-on-edge header course band	m	1	90.00	90.00
366	Extra over brickwork for brick-on-end soldier course band	m	1	90.00	90.00
367	Extra over brickwork for brick-on-edge header course lintel	m	1	90.00	90.00
368	Extra over brickwork for brick-on-end soldier course lintel	m	1	90.00	90.00
369	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	90.00	90.00
<u>"Corobrik Bergendal Light Satin Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
370	Extra over brickwork for face brickwork	m2	1	202.00	202.00
371	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	202.00	202.00
372	Extra over brickwork for face brickwork circular on plan	m2	1	223.00	223.00
373	110mm cut linings to concrete	m2	1	513.00	513.00
374	Half brick walls pointed on both sides	m2	1	513.00	513.00
375	One brick wall pointed on both sides	m2	1	1,025.00	1,025.00
376	Extra over brickwork for brick-on-flat header course band	m	1	105.00	105.00

<u>"Corobrik Country Manor Travertine Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
377	Extra over brickwork for face brickwork	m2	1	185.00	185.00
378	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	185.00	185.00
379	Extra over brickwork for face brickwork circular on plan	m2	1	204.00	204.00
380	Extra over brickwork for face brickwork in soldier courses	m2	1	185.00	185.00
381	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	204.00	204.00
382	110mm cut linings to concrete	m2	1	491.00	491.00
383	110mm cut linings to concrete circular on plan	m2	1	541.00	541.00
384	Half brick walls pointed on both sides	m2	1	513.00	513.00
385	One brick wall pointed on both sides	m2	1	983.00	983.00
386	Extra over brickwork for brick-on-flat header course band	m	1	110.00	110.00
387	Extra over brickwork for brick-on-edge header course band	m	1	110.00	110.00
388	Extra over brickwork for brick-on-end soldier course band	m	1	110.00	110.00
389	Extra over brickwork for brick-on-edge header course lintel	m	1	110.00	110.00
390	Extra over brickwork for brick-on-end soldier course lintel	m	1	110.00	110.00
391	Extra over brickwork for horizontal corbelled band 3 courses high and 110mm projection	m	1	110.00	110.00
<u>"Corobrik Wild Wheat Travertine Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
392	Extra over brickwork for face brickwork	m2	1	220.00	220.00
393	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	220.00	220.00
394	Extra over brickwork for face brickwork circular on plan	m2	1	242.00	242.00
395	110mm cut linings to concrete	m2	1	532.00	532.00
396	Half brick walls pointed on both sides	m2	1	532.00	532.00
397	One brick wall pointed on both sides	m2	1	1,100.00	1,100.00
398	Extra over brickwork for brick-on-flat header course band	m	1	110.00	110.00
399	Extra over brickwork for brick-on-edge header course band	m	1	110.00	110.00
<u>"Corobrik Bergendal Blend Travertine Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
400	Extra over brickwork for face brickwork	m2	1	220.00	220.00
401	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	220.00	220.00
402	Extra over brickwork for face brickwork circular on plan	m2	1	242.00	242.00
403	110mm cut linings to concrete	m2	1	532.00	532.00
404	Half brick walls pointed on both sides	m2	1	532.00	532.00
405	One brick wall pointed on both sides	m2	1	1,100.00	1,100.00
406	Extra over brickwork for brick-on-flat header course band	m	1	110.00	110.00
407	Extra over brickwork for brick-on-edge header course band	m	1	110.00	110.00
<u>"Corobrik Namaqua Blend Travertine Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
408	Extra over brickwork for face brickwork	m2	1	180.00	180.00
409	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	180.00	180.00
410	Extra over brickwork for face brickwork circular on plan	m2	1	190.00	190.00

411	Extra over brickwork for face brickwork in soldier courses	m2	1	180.00	180.00
412	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	190.00	190.00
413	110mm cut linings to concrete	m2	1	367.00	367.00
414	Half brick walls pointed on both sides	m2	1	367.00	367.00
415	One brick wall pointed on both sides	m2	1	734.00	734.00
416	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
417	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Bergendal Cottage Satin Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
418	Extra over brickwork for face brickwork	m2	1	220.00	220.00
419	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	220.00	220.00
420	Extra over brickwork for face brickwork circular on plan	m2	1	242.00	242.00
421	110mm cut linings to concrete	m2	1	532.00	532.00
422	Half brick walls pointed on both sides	m2	1	532.00	532.00
423	One brick wall pointed on both sides	m2	1	1,100.00	1,100.00
424	Extra over brickwork for brick-on-flat header course band	m	1	110.00	110.00
425	Extra over brickwork for brick-on-edge header course band	m	1	110.00	110.00
<u>"Corobrik Burnt Apricot Satin Imperial FBA" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
426	Extra over brickwork for face brickwork	m2	1	180.00	180.00
427	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	190.00	190.00
428	Extra over brickwork for face brickwork circular on plan	m2	1	190.00	190.00
429	110mm cut linings to concrete	m2	1	310.00	310.00
430	Half brick walls pointed on both sides	m2	1	310.00	310.00
431	One brick wall pointed on both sides	m2	1	620.00	620.00
432	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
433	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Montrose Travertine Imperial FBA" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
434	Extra over brickwork for face brickwork	m2	1	130.00	130.00
435	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	130.00	130.00
436	Extra over brickwork for face brickwork circular on plan	m2	1	135.00	135.00
437	110mm cut linings to concrete	m2	1	310.00	310.00
438	Half brick walls pointed on both sides	m2	1	310.00	310.00
439	One brick wall pointed on both sides	m2	1	620.00	620.00
440	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
441	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Firelight Satin Imperial FBX" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
442	Extra over brickwork for face brickwork	m2	1	245.00	245.00
443	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	245.00	245.00
444	Extra over brickwork for face brickwork circular on plan	m2	1	270.00	270.00
445	110mm cut linings to concrete	m2	1	683.00	683.00

446	Half brick walls pointed on both sides	m2	1	683.00	683.00
447	One brick wall pointed on both sides	m2	1	1,200.00	1,200.00
448	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
449	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Firelight Travertine Imperial FBX" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
450	Extra over brickwork for face brickwork	m2	1	245.00	245.00
451	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	245.00	245.00
452	Extra over brickwork for face brickwork circular on plan	m2	1	270.00	270.00
453	110mm cut linings to concrete	m2	1	683.00	683.00
454	Half brick walls pointed on both sides	m2	1	683.00	683.00
455	One brick wall pointed on both sides	m2	1	1,200.00	1,200.00
456	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
457	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Roan Satin Imperial FBX" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
458	Extra over brickwork for face brickwork	m2	1	245.00	245.00
459	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	245.00	245.00
460	Extra over brickwork for face brickwork circular on plan	m2	1	270.00	270.00
461	110mm cut linings to concrete	m2	1	683.00	683.00
462	Half brick walls pointed on both sides	m2	1	683.00	683.00
463	One brick wall pointed on both sides	m2	1	1,200.00	1,200.00
464	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
465	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Roan Travertine Imperial FBX" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
466	Extra over brickwork for face brickwork	m2	1	245.00	245.00
467	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	245.00	245.00
468	Extra over brickwork for face brickwork circular on plan	m2	1	270.00	270.00
469	110mm cut linings to concrete	m2	1	683.00	683.00
470	Half brick walls pointed on both sides	m2	1	683.00	683.00
471	One brick wall pointed on both sides	m2	1	1,200.00	1,200.00
472	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
473	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
<u>"Corobrik Country Classic Imperial FBS" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>					
474	Extra over brickwork for face brickwork	m2	1	245.00	245.00
475	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	245.00	245.00
476	Extra over brickwork for face brickwork circular on plan	m2	1	270.00	270.00
477	110mm cut linings to concrete	m2	1	683.00	683.00
478	Half brick walls pointed on both sides	m2	1	683.00	683.00
479	One brick wall pointed on both sides	m2	1	1,200.00	1,200.00
480	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
481	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00

	<u>"Corobrik Fireside Travertine Imperial FBA" clay face brick or equal and approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints:</u>				
482	Extra over brickwork for face brickwork	m2	1	180.00	180.00
483	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1	180.00	180.00
484	Extra over brickwork for face brickwork circular on plan	m2	1	190.00	190.00
485	Extra over brickwork for face brickwork in soldier courses	m2	1	190.00	190.00
486	Extra over brickwork for face brickwork in soldier courses circular on plan	m2	1	195.00	195.00
487	110mm cut linings to concrete	m2	1	367.00	367.00
488	Half brick walls pointed on both sides	m2	1	367.00	367.00
489	One brick wall pointed on both sides	m2	1	734.00	734.00
490	Extra over brickwork for brick-on-flat header course band	m	1	120.00	120.00
491	Extra over brickwork for brick-on-edge header course band	m	1	120.00	120.00
	<u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u>				
492	Coping on top of half brick wall	m	1	140.00	140.00
493	Coping on top of one brick wall	m	1	140.00	140.00
494	Coping on top of one and half brick wall	m	1	140.00	140.00
495	Coping on top of one brick wall circular on plan	m	1	160.00	160.00
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>				
	<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs, etc.</u>				
496	15 x 150mm Wide Everite fibre cement sills (Product No.: 031-509) set flat and slightly projecting.	m	1	120.00	120.00
497	150 x 150mm Quarry tile sills internally and externally to match existing	m	1	145.00	145.00
	<u>DECORATIVE SCREEN WALLS AND GRILLES</u>				
	<u>Screen walls of type Grill 190 Size 190 x 190 x 190mm (PC - R 450 / m2) grille blocks bedded and jointed in class 1 mortar, with continuous joints in both directions and pointed with recessed horizontal and vertical joints</u>				
498	190mm Walls pointed on both sides	m2	1	630.00	630.00
	<u>GLASS BLOCK WALLS</u>				
	<u>Aluglass Bautech Saint-Gobain bulletproof Clearview 198 glass blocks colour White, size 190 x 190 x 80mm thick or equal similar Architect approved, installed in panels not exceeding three blocks high. First course laid on surface coated with bitumen emulsion or similar material. Blocks bedded and jointed in Class II mortar mixed with emulsifying agent and pointed with smooth 10mm wide joints. Allow 15mm clear space at sides and top of panel and fill with polyurethane backing strip and silicone sealant. Reinforce every horizontal and vertical joint with 26-65mm wide corrosion resistant metal strips or mesh nailed to adjacent walls or columns, or with 6mm diameter galvanized reinforcing rods drilled 50mm deep into surrounding structure or other equal Architect approved system</u>				
499	80mm Walls	m2	1	580.00	580.00
500	80mm Walls circular on plan	m2	1	610.00	610.00
	<u>Aluglass Bautech SEVES Broadcross 198 glass bricks colour White, size 190 x 190 x 80mm thick or equal similar Architect approved, installed using cement mortar, all in accordance with manufacturer's recommendations or other equal Architect approved system</u>				
501	80mm Walls	m2	1	610.00	610.00
502	80mm Walls circular on plan	m2	1	620.00	620.00
	<u>Sundries</u>				
503	10mm Wide horizontal slip joints below glass blocks consisting of two layers type FV dampproofing	m	1	80.00	80.00
504	8mm Diameter galvanised mild steel bar reinforcement horizontally and vertically	t	1	19,500.00	19,500.00
	<u>NATURAL STONEWORK</u>				
	<u>RUBBLE WALLS</u>				

	<u>Rubble walls of uncoursed random local stone to the principal agent's approval</u>				
505	Mass and irregular walls (facing and pointing elsewhere)	m3	1	360.00	360.00
	<u>Rubble walls of uncoursed random local stone to the principal agent's approval, including facing and pointing on one side</u>				
506	250mm Walls	m2	1	360.00	360.00
507	250mm Walls circular on plan	m2	1	365.00	365.00
	<u>Facing and pointing</u>				
508	To mass and irregular work	m2	1	250.00	250.00
509	To tops, ends and reveals of walls	m2	1	260.00	260.00
	<u>STONEWORK OF SLATE, MARBLE, GRANITE, ETC</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Slate, marble, granite, etc</u>				
	Slate, marble, granite, etc is to be best quality from an approved quarry free from cracks and other defects and equal to samples to be submitted to and approved by the principal agent. Each stone is to hold its full size, square to the back and to be set on its natural quarry bed where applicable				
	<u>Setting out</u>				
	Care shall be exercised in setting out the work, the preparation of templates and the checking of the detail drawings. All measurements shall be taken on the site where necessary and the full size setting out shall be done at the yard so as to ensure the proper fitting of each stone				
	Before putting any work in hand the contractor is to submit to the principal agent for his approval, details of the manner in which he proposes to set out the slabs and joints in all wall facings, pavings, margins, skirtings, sills, treads, risers, etc together with samples of grain or pattern matching. Joints in margins, skirtings, sills, treads, risers, etc are to be kept to a minimum				
	<u>Face labours</u>				
	Face labours are to match samples to be submitted to and approved by the principal agent				
	Arrises are to be clean and sharp except to treads and thresholds where they are to be slightly rounded				
	Unless otherwise described all exposed edges, projections, etc shall be finished to match the face finish				
	<u>Bedding and jointing</u>				
	Slate, marble, granite and other floor pavings are to be bedded solidly on and including mortar beddings and are to have tightly fitting butt joints unless otherwise stated				
	Where stonework is to be fixed with adhesive to screeded or plastered surfaces, the adhesive is to be suitable for and compatible with the type of stone. The contractor will be liable for any defects to stonework caused by the adhesive. The screeds and plaster will be executed by others and will be given separately. Where wall linings are to be mechanically fixed, phosphor bronze rods, expanding bolts, etc are to be used with solid cement mortar bedding. The fixing system shall be concealed and shall be submitted to the principal agent for approval before the work commences. Such approval will not release the contractor from his responsibility for the work				
	Where soffit linings are suspended the suspension system shall be concealed and shall be submitted to the principal agent for approval before work commences				
	Where tolerance screws are required these are to be stainless steel expanding bolt type with matching stainless steel brackets and PVC clad dowels with nuts, washers, etc				
	<u>Damaged work</u>				
	Damaged stonework shall be discarded and replaced at the contractor's expense. No touching up will be permitted except in exceptional cases with the principal agent's consent				
	<u>Descriptions</u>				
	Descriptions of stonework shall be deemed to include preparatory work, labours to backs, beds and joints, templates, mortices for bolts etc and for hoisting and setting in position, bedding, jointing and pointing, casing and protecting from injury and cleaning down at completion and sealing of marble surfaces with two coats ultra-high gloss polished finish sealant				
	Descriptions of recessed pointing to stonework shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	<u>MARBLE WALL LININGS ETC</u>				

	<u>Marble wall linings (PC R 800 per m2) with polished finish, fixed with adhesive mechanically fixed including mortar backing</u>				
510	Lining to walls of 20mm thick slabs not exceeding 0,5m ² on face	m2	1	1,120.00	1,120.00
511	Lining to walls of 20mm thick slabs exceeding 0,5m ² and not exceeding 1m ² on face	m2	1	1,120.00	1,120.00
512	Lining to sides and soffits of beams in slabs not exceeding 0,5m ² on face	m2	1	1,120.00	1,120.00
513	Fair circular cutting	m	1	300.00	300.00
514	Polished fair edges to 20mm thick linings	m	1	250.00	250.00
515	Polished bullnosed edges to 20mm thick linings	m	1	220.00	220.00
	<u>GRANITE WALL LININGS ETC</u>				
	<u>Interlocking granite wall linings (PC - R 750 per m2) with polished finish, fixed with adhesive mechanically fixed including mortar backing</u>				
516	Lining to walls of 20mm thick slabs not exceeding 0,5m ² on face	m2	1	975.00	975.00
517	Lining to walls of 20mm thick slabs exceeding 0,5m ² and not exceeding 1m ² on face	m2	1	975.00	975.00
518	Lining to sides and soffits of beams in slabs not exceeding 0,5m ² on face	m2	1	975.00	975.00
519	Fair circular cutting	m	1	300.00	300.00
520	Polished fair edges to 20mm thick linings	m	1	200.00	200.00
521	Polished bullnosed edges to 20mm thick linings	m	1	200.00	200.00
	<u>Random cladding dry-packed in random mix pattern, fixed to rough brickwork surfaces applying one coat Cemflex universal waterproofer and bonding agent and fix using Class II mortar, all in accordance with the manufacturer's recommendations.</u>				
522	Lining to walls of 30mm thick slabs not exceeding 0,5m ² on face	m2	1	975.00	975.00
523	Lining to walls of 30mm thick slabs exceeding 0,5m ² and not exceeding 1m ² on face	m2	1	975.00	975.00
524	Lining to sides and soffits of beams in slabs not exceeding 0,5m ² on face	m2	1	975.00	975.00
525	Fair circular cutting	m	1	300.00	300.00
526	Polished fair edges to 30mm thick linings	m	1	200.00	200.00
527	Polished bullnosed edges to 30mm thick linings	m	1	200.00	200.00
	Carried to Final Summary				
				R	339,062.30

	BILL NO. 7				
	WATERPROOFING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	SUPPLEMENTARY PREAMBLES				
	Proprietary products in descriptions:				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':				
1	Under surface beds.	m2	1	40.00	40.00
	One layer of 375 micron embossed dampcourse waterproof sheeting below walls, sills, etc:				
2	Under surface beds	m2	1	57.00	57.00
3	Below walls, sills, etc.	m2	1	57.00	57.00
4	On walls, stepped up in cavities, under cills, etc.	m2	1	57.00	57.00
5	Vertically to jambs in 110mm widths	m	1	45.00	45.00
	Two coats 'Brixal' or equal similar Architect approved bitumen emulsion waterproof coating				
6	On bagged outer face of inner skin of brick walls, etc	m2	1	68.00	68.00
7	On concrete floors	m2	1	45.00	45.00
8	On concrete walls, columns and beams	m2	1	45.00	45.00
9	On concrete walls and columns in foundations (Provisional)	m2	1	45.00	45.00
10	On brick walls	m2	1	45.00	45.00
	Primer and two coats "Durabit" or equal similar Architect approved rubber bitumen emulsion paint				
11	On concrete floors	m2	1	68.00	68.00
12	On concrete walls, columns and beams	m2	1	75.00	75.00
13	On concrete walls and columns in foundations (Provisional)	m2	1	75.00	75.00
14	On brick walls	m2	1	68.00	68.00
15	On bagged brick walls	m2	1	68.00	68.00
	Primer three coats "Durabit" or equal similar Architect approved rubber bitumen emulsion paint and one coat "Silvershield" aluminium coating				
16	On concrete floors	m2	1	130.00	130.00
17	On concrete walls, columns and beams	m2	1	130.00	130.00
18	On concrete walls and columns in foundations (Provisional)	m2	1	130.00	130.00
19	On brick walls	m2	1	130.00	130.00
20	On bagged brick walls	m2	1	130.00	130.00
	Elastocrete				
	Apply two coats of elastocrete to walls	m2	1	250.00	250.00
	Apply three coats of elastocrete to walls	m2	1	275.00	275.00
	Coprox waterproofing system, or equal similar Architect approved The surface is to be clean, sound and dry prior to applications of the waterproofing.				
21	To shower floors	m2	1	205.00	205.00

	<u>EM22 primer waterproofing system, or equal similar Architect approved, The surface is to be clean, sound and dry prior to applications of the waterproofing.</u>				
22	To shower floors	m2	1	195.00	195.00
	<u>Robex , or equal similar Architect approved.</u>				
23	To shower walls and floors	m2	1	205.00	205.00
	<u>Three coat "Super Laycryl" fibre reinforced heavy duty maintenance free acrylic waterproofing</u>				
24	On flat floors	m2	1	180.00	180.00
25	On sloping floors with 10 degrees pitch	m2	1	180.00	180.00
26	On balcony floors	m2	1	180.00	180.00
27	On shower floors	m2	1	180.00	180.00
28	On walls	m2	1	180.00	180.00
29	On bottoms and sides of floor ducts, channels, etc	m2	1	180.00	180.00
	<u>Three layers type 60 roofing felt sealed with hot bitumen compound</u>				
30	On flat floors	m2	1	340.00	340.00
31	On balcony floors	m2	1	340.00	340.00
32	On shower floors	m2	1	340.00	340.00
33	On walls	m2	1	340.00	340.00
34	Sealing edges to brickwork or concrete	m	1	340.00	340.00
35	On internal surfaces of 450 x 450 x 300mm deep sump, catchpit, etc	No	1	565.00	565.00
	<u>Bondaglass or equal similar Architect approved flexible reinforced waterproofing.</u>				
36	On flat floors	m2	1	250.00	250.00
	<u>4mm "Abedex" fully bonded waterproofing</u>				
37	On flat floors	m2	1	210.00	210.00
38	On balcony floors	m2	1	210.00	210.00
39	On shower floors	m2	1	210.00	210.00
40	On walls	m2	1	210.00	210.00
41	On internal surfaces of 450 x 450 x 300mm deep sump, catchpit, etc	No	1	210.00	210.00
42	Sealing edges to brickwork or concrete	m	1	65.00	65.00
	<u>4mm "Abedex" waterproofing covered with type 40 bituminous fibreglass felt loose laid protection layer with coarse building sand blinding</u>				
43	On flat floors	m2	1	250.00	250.00
44	On balcony floors	m2	1	250.00	250.00
45	On shower floors	m2	1	250.00	250.00
46	On walls	m2	1	250.00	250.00
47	Sealing edges to brickwork or concrete	m	1	65.00	65.00
	<u>One layer Derbigum SP3 or equal similar Architect approved waterproofing membrane, with 75mm side laps, sealed by 'torch-fusion'</u>				
48	To side and top of parapet wall	m2	1	355.00	355.00
	<u>One layer Derbigum SP4 or equal similar Architect approved fully sealed (as described for roof areas), up and over plinths with a sheet metal capping detail over the plinths to serve as protection to the membrane. Allow sufficient height for maintenance purposes (600mm).</u>				
49	Plinths	m2	1	355.00	355.00
	<u>Gundle API Tanking membrane or equal Architect approved</u>				
50	API 250µm Hyperlastic Orange waterproof sheeting in walls manufactured in accordance with SANS 952-1:2011, laid in accordance with manufacturer's recommendations.	m2	1	330.00	330.00

51	API 250µm Hyperlastic Orange waterproof sheeting under concrete surface beds manufactured in accordance with SANS 952-1:2011, laid in accordance with manufacturer's recommendations.	m	1	330.00	330.00
	<u>Derbigum or equal similar Architect approved waterproofing to retaining walls</u>				
52	Waterproofing to concrete retaining walls to be one layer Derbigum CG4 waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to primed surfaces by means of 'torch-fusion', to receive Delta MS8 dimpled drainage layer to receive compacted fill (to engineers specification) on top of geo drainage pipe system (elsewhere specified). Waterproofing to be installed by an Approved Derbigum Contractor.	m2	1	380.00	380.00
53	Waterproofing to bagged brick retaining walls to be one layer Derbigum CG3 waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to primed surfaces by means of 'torch-fusion', to receive Delta MS8 dimpled drainage layer to receive compacted fill (to engineers specification) on top of geo drainage pipe system (elsewhere specified). Waterproofing to be installed by an Approved Derbigum Contractor.	m2	1	380.00	380.00
	<u>WATERPROOFING TO ROOFS</u>				
	<u>Three coat "Super Laycrl" or equal similar Architect approved fibre reinforced heavy duty maintenance free acrylic waterproofing</u>				
54	On flat roofs	m2	1	210.00	210.00
55	On sloping roofs with 17,5 degrees pitch	m2	1	210.00	210.00
56	On tops and sides of inverted beams	m2	1	210.00	210.00
57	Sealing edges to brickwork or concrete including trowelled mastic bead	m	1	95.00	95.00
58	On bottoms and sides of box gutters	m2	1	210.00	210.00
59	On bottoms and sides of planter boxes	m2	1	210.00	210.00
60	On internal surfaces of 450 x 450 x 300mm deep sump, catchpit, etc	No	1	105.00	105.00
61	Sealing edges to brickwork or concrete	m	1	95.00	95.00
62	Flashing strip 100mm girth at turn-ups including sealing top edge into groove with mastic	m	1	95.00	95.00
63	Additional membrane 100mm girth at internal and external angles	m	1	95.00	95.00
64	Additional membrane 100mm girth at internal and external angles circular on plan including forming darts as necessary	m	1	95.00	95.00
65	Additional membrane 100mm girth at turn-ups including flashing strip 100mm girth and sealing top edge into groove with mastic	m	1	95.00	95.00
66	Additional membrane at rainwater outlet	No	1	70.00	70.00
67	Collar around pipe not exceeding 100mm internal diameter	No	1	70.00	70.00
	<u>Three layers type 60 roofing felt sealed with hot bitumen compound or equal similar Architect approved</u>				
68	On flat roofs	m2	1	460.00	460.00
69	On sloping roofs with 17,5 degrees pitch	m2	1	460.00	460.00
70	On bottoms and sides of box gutters	m2	1	460.00	460.00
71	On internal surfaces of 450 x 450 x 300mm deep sump, catchpit, etc	No	1	580.00	580.00
72	Flashing strip 100mm girth at turn-ups including sealing top edge into groove with mastic	m	1	260.00	260.00
73	Additional membrane 100mm girth at internal and external angles	m	1	260.00	260.00
74	Additional membrane at rainwater outlet	No	1	120.00	120.00
75	Collar around pipe not exceeding 100mm internal diameter	No	1	120.00	120.00
	<u>4mm "Abedex" or equal similar Architect approved fully bonded waterproofing</u>				
76	On flat roofs	m2	1	240.00	240.00
77	On sloping roofs with 25 degrees pitch	m2	1	240.00	240.00
78	On internal surfaces of 450 x 450 x 300mm deep sump, catchpit, etc	No	1	140.00	140.00
79	Flashing strip 200mm girth at turn-ups including sealing top edge into groove with mastic	m	1	70.00	70.00
80	Additional membrane 200mm girth at internal and external angles	m	1	70.00	70.00
81	Additional membrane 200mm girth at turn-ups including flashing strip 200mm girth and sealing top edge into groove with mastic	m	1	70.00	70.00

82	Additional membrane at rainwater outlet	No	1	70.00	70.00
83	Collar around pipe not exceeding 100mm internal diameter	No	1	90.00	90.00
	4mm "Abedex" waterproofing or equal Architect approved covered with type 40 bituminous fibreglass felt loose laid protection layer with coarse building sand blinding				
84	On flat roofs	m2	1	240.00	240.00
85	On sloping roofs with 17,5 degrees pitch	m2	1	240.00	240.00
	<u>One layer Derbigum SP4 waterproofing membrane or equal Architect approved, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and cross falls by 'torch-fusion' finished with two coats bituminous aluminium paint. Waterproofing to be installed by an Architect Approved Derbigum Contractor under a ten year guarantee.</u>				
86	On flat roofs.	m2	1	355.00	355.00
	<u>One layer Derbigum SP4 waterproofing membrane or equal Architect approved, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by 'torch-fusion' finished with one coat of acrylic primer followed by two coats acrylic paint. Waterproofing to be installed by an Approved Derbigum Contractor under a ten year guarantee.</u>				
87	On flat roofs.	m2	1	355.00	355.00
	<u>One layer Derbigum SP4 waterproofing membrane or equal Architect approved, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by "torch-fusion" including protection of 50mm thick layer clean 19-25mm crushed stone on Interdek separation layer. Waterproofing to be installed by an Approved Derbigum Contractor under a ten-year guarantee.</u>				
88	On flat roofs.	m2	1	330.00	330.00
	<u>Derbigum CG2 underlay mechanically fastened with selected nails and 38mm diameter roofing washers at 13/m2 and one layer Derbigum SP4, with 75mm side laps and 100mm end laps, sealed to underlay by 'torchfusion' finished with bituminous aluminium paint or equal Architect approved system</u>				
89	On flat timber boarded surface	m2	1	330.00	330.00
	<u>"Laticrete 301/355" or equal similar Architect approved trowel applied waterproof membrane as manufactured by Laticrete (SA) (Pty) Ltd, Tel. 011 839 1911/3, laid in strict accordance with the manufacturer's instructions:</u>				
90	To concrete slab, including turnups, turndown, working to angles, dressing to outlets, around pipes, etc.	m2	1	330.00	330.00
	<u>"Robex Protadeck/Protaseal" or equal similar Architect approved waterproofing laid on screed to falls (screed elsewhere measured). Tenders to please note Polyurea or robex (spray on waterproofing) on the slab need to cure properly before application (max 5% measured moisture content).</u>				
91	On flat roofs to falls and currents	m2	1	475.00	475.00
92	On tops and sides of inverted beams	m2	1	475.00	475.00
93	Sealing edges to brickwork or concrete	m	1	90.00	90.00
	<u>19mm Crushed stone evenly spread with larger stones around outlets</u>				
94	50mm Thick on waterproofing to flat roofs	m2	1	105.00	105.00
	<u>Five coat "Acrylastic" or equal similar Architect approved fibre reinforced heavy duty maintenance free acrylic waterproofing</u>				
95	Flashings	m2	1	190.00	190.00
96	Bandage cover flashing strip 250mm wide including sealing edges	m	1	135.00	135.00
	<u>Two coats bituminous aluminium paint</u>				
97	On waterproofing to roofs	m2	1	150.00	150.00
	<u>Two coats "Silvakote" aluminium paint</u>				
98	On waterproofing to roofs	m2	1	130.00	130.00
99	On waterproofing to box gutters	m2	1	45.00	45.00
	<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC</u>				
	<u>"Kirk" PVC or equal similar Architect approved waterstops cast into concrete</u>				
100	5mm "Kirk" waterstops	m	1	135.00	135.00
	<u>Compriband bitumen impregnated foam plastic joint sealing strips</u>				

101	10 x 100mm In joints between frames and walls	m	1	40.00	40.00
102	10 x 100mm In expansion joints	m	1	40.00	40.00
	<u>Clear Neutral silicone sealant:</u>				
103	In joint sealing and pointing all round external window and door frames.	m	1	45.00	45.00
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>				
104	6 x 6mm In saw cut joints in floors	m	1	35.00	35.00
105	6 x 12mm In saw cut joints in floors	m	1	41.00	41.00
106	10 x 10mm In expansion joints in floors	m	1	55.00	55.00
107	10 x 10mm In vertical expansion joints	m	1	55.00	55.00
108	10 x 10mm In expansion joints in soffits	m	1	55.00	55.00
109	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	1	55.00	55.00
110	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	1	55.00	55.00
111	10 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m	1	55.00	55.00
	<u>"Secomastic" non setting mastic sealant or equal similar Architect approved, applied cold with a hand pressure caulking gun and leave perfectly watertight.</u>				
112	Around steel windows and door frames.	m	1	65.00	65.00
113	Between fibre cement facia and "Danpalon" polycarbonate roofing sheets.	m	1	80.00	80.00
114	Along slip joint. (Provisional).	m	1	80.00	80.00
	<u>Dymonic polyurethane elastometric or equal similar Architect approved uv-resistant flexible joint sealant suitable for painting.</u>				
115	10mm joints around the windows.	m	1	85.00	85.00
	<u>Two-part grey polyurethane sealing or equal similar Architect approved, compound including backing cord, bond breaker, primer, etc</u>				
116	15 x 20mm In expansion joints in floors	m	1	85.00	85.00
	<u>Sundries</u>				
117	10 x 10 mm Polysulphide sealant in expansion joint including scraping out softboard. (Provisional).	m	1	68.00	68.00
	Carried to Final Summary				
				R	21,222.00

BILL NO. 8					
ROOF COVERINGS ETC.					
PREAMBLES					
The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.					
Fixing:					
Fixing shall be done according to SABS 1200HB with minimum 225mm end laps.					
Guarantee:					
The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years.					
Pricing:					
Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net).					
SLATES					
<u>Everite Nutec Charcoal plain mitred (Code: 020-902) roof slates, manufactured in accordance with SANS 803:2005, size 610 x 406 x 5mm thick, fixed at a pitch of 20°, each slate twice nailed with 40 x 2,8mm galvanised clout nails (Code : 605-133) to sawn softwood battens at 250mm centres, fixed to trusses with slates fastened together with copper disc rivets (Code : 605-011) or equal Architect approved system</u>					
1	Roof covering with pitches not exceeding 25 degrees	m2	1	640.00	640.00
2	Circular cutting	m	1	25.00	25.00
TILES					
<u>420 x 332mm Marley Double Roman "Plus" concrete tiles or equal Architect approved tiles nailed with non-corrosive tile nails to and including 38 x 38mm sawn softwood battens at 760mm centres</u>					
3	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	240.00	240.00
4	Ridge tile bedded and pointed in tinted cement mortar.	m	1	120.00	120.00
<u>420 x 332mm Marley Double Roman "Plus" concrete tiles or equal Architect approved tiles nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>					
5	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	240.00	240.00
6	Ridge tile bedded and pointed in tinted cement mortar.	m	1	120.00	120.00
<u>420 x 332mm Marley Double Roman "Plus" concrete tiles or similar equal Approved concrete tiles nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 1000mm centres</u>					
7	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
<u>420 x 332mm Marley Monarch concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 38mm sawn softwood battens at 760mm centres</u>					
8	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
9	Ridge tile bedded and pointed in tinted cement mortar.	m	1	120.00	120.00
<u>420 x 332mm Marley Monarch concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 1000mm centres</u>					
10	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
11	Ridge tile bedded and pointed in tinted cement mortar.	m	1	120.00	120.00
<u>420 x 332mm Marley Ludlow concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>					
12	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00

13	Ridge tile bedded and pointed in tinted cement mortar. <u>420 x 332mm Marley Modern concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>	m	1	120.00	120.00
14	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
15	Ridge tile bedded and pointed in tinted cement mortar. <u>420 x 332mm Coverland Taunus concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>	m	1	120.00	120.00
16	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
17	Ridge tile bedded and pointed in tinted cement mortar. <u>420 x 330mm Coverland Elite Concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>	m	1	120.00	120.00
18	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
19	Ridge tile bedded and pointed in tinted cement mortar. <u>420 x 332mm Coverland Cupola Concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>	m	1	120.00	120.00
20	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
21	Ridge tile bedded and pointed in tinted cement mortar. <u>420 x 332mm Coverland Perspective Concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>	m	1	120.00	120.00
22	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
23	Ridge tile bedded and pointed in tinted cement mortar. <u>420 x 332mm Tuscan Concrete tiles or equal Architect approved nailed with non-corrosive tile nails to and including 38 x 50mm sawn softwood battens at 900mm centres</u>	m	1	120.00	120.00
24	Tiles fixed to flat slope on timber battens (elsewhere measured).	m2	1	220.00	220.00
25	Ridge tile bedded and pointed in tinted cement mortar. <u>Sundries</u>	m	1	120.00	120.00
26	Raking cutting and waste.	m	1	80.00	80.00
27	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	1	140.00	140.00
28	Verge capping tiles to match roofing tiles fixed with non-corrosive fixing accessories <u>THATCH</u> <u>150mm Thick thatch of hand cut grass of the hyparrhenia species in lengths varying from 760 to 1020mm laid in bundles of suitable size, compacted to a minimum density of 30kg/m²/150 mm thickness and fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured with tarred twine to and including eucalyptus battens CCA treated in accordance with SANS 457-2, varying in diameter from 20 to 40mm, spaced at maximum 300mm centres generally and at closer centres nearer to eaves, including a fire-retardent interlay of multi-layered reinforced double-sided aluminium foil sheeting in accordance with SANS 1381-4 with a mass of not less than 272g/m² and a Class I fire rating in accordance with SANS 0177-3</u>	m	1	160.00	160.00
29	Covering to general roof slopes	m2	1	600.00	600.00
30	Covering to general roof slopes including a spreadlayer to exposed soffit	m2	1	650.00	650.00
31	Covering to dormers, turrets, etc	m2	1	670.00	670.00
32	Roof-apex caps, neatly formed floated and finished Ridges formed by extending covering above ridge level on the one roof slope, bending over and down on the opposite slope and fixing and securing as described for roof covering and repeating the process on the opposite roof slope including covering with galvanised wire bird netting 900mm girth and necessary additional fixing rods	No	1	650.00	650.00
33	Prefabricated continuous glass fibre ridge cappings over thatch roof covering of not less than 1,5mm thick material 1300mm girth and in suitable lengths, securely fixed to thatch with 75mm wide lapped and sealed heading joints, including grass filling under	m	1	320.00	320.00
34	Extra over ridge capping for purpose made angle piece	m	1	160.00	160.00
35		No	1	430.00	430.00

36	Extra over ridge capping for purpose made curved returned end piece	No	1	430.00	430.00
37	Allow for fire treatment of the thatch	m2	1	145.00	145.00
<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>					
<u>0.5mm Z275 Galvanised Coating Steel IBR with integral stiffening rib steel roof sheeting and accessories fixed to 38 x 38mm timber purlins or rails with a 760mm to 1000mm spacing. All sheeting is to be clearly marked on the reverse side at one-metre intervals indicating thickness, material quality and coating thickness.</u>					
38	Roof covering with pitch not exceeding 50 degrees.	m2	1	250.00	250.00
39	Side cladding	m2	1	250.00	250.00
40	Ridge capping 450mm girth, including "Sondor" corrugated pattern polyclosers.	m	1	150.00	150.00
<u>0.58mm Z275 Galvanised Coating Steel IBR with integral stiffening rib steel roof sheeting and accessories fixed to 38 x 38mm timber purlins or rails with a 760mm to 1000mm spacing. All sheeting is to be clearly marked on the reverse side at one-metre intervals indicating thickness, material quality and coating thickness.</u>					
41	Roof covering with pitch not exceeding 50 degrees.	m2	1	270.00	270.00
42	Side cladding	m2	1	270.00	270.00
43	Ridge capping 450mm girth, including "Sondor" corrugated pattern polyclosers.	m	1	160.00	160.00
<u>0.5mm Factory painted IBR profile roof sheeting (colour as per Architect's approval) on 50 x 76mm S.A. Pine purlins fixed to rafters at maximum 1 200mm centres on pitch of 25 degrees. Roof structure to be tied down into walls with galvanised hoop iron streps taken down 600mm(elsewhere). Sheeting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>					
47	Roof covering with pitch not exceeding 25 degrees.	m2	1	300.00	300.00
48	Side cladding	m2	1	300.00	300.00
<u>0.5mm Nominal thickness ditto, but flashings:</u>					
49	Ridge 550mm girth with minimum 225mm laps, fixed to roof sheeting (measured net).	m	1	180.00	180.00
50	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	1	150.00	150.00
51	Raking valley gutter 550mm girth and six times bent along girth.	m	1	150.00	150.00
52	Gable trim 550mm girth and three times bent along girth.	m	1	150.00	150.00
<u>0.58mm Factory painted IBR profile roof sheeting (colour as per Architect's approval) on 50 x 76mm S.A. Pine purlins fixed to rafters at maximum 1 200mm centres on pitch of 25 degrees. Roof structure to be tied down into walls with galvanised hoop iron streps taken down 600mm(elsewhere). Sheeting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>					
53	Roof covering with pitch not exceeding 25 degrees.	m2	1	320.00	320.00
54	Side cladding	m2	1	320.00	320.00
<u>0.58mm Nominal thickness ditto, but flashings:</u>					
55	Ridge 550mm girth with minimum 225mm laps, fixed to roof sheeting (measured net).	m	1	190.00	190.00
56	Hip capping 550mm girth, three times bent along girth and notched on site to suit roof profile.	m	1	170.00	170.00
57	Raking valley gutter 550mm girth and six times bent along girth.	m	1	170.00	170.00
<u>ROOF VENTILATORS AND ROOFLIGHTS</u>					
<u>"Windmaster" or equal Architect approved</u>					
64	Aluminium tornado industrial roof ventilation system, including all the cutting and installation and all insulations. colour to match roof.	No	1	2,500.00	2,500.00
65	Galvanised whirlybird	No	1	3,750.00	3,750.00
<u>ROOF AND WALL INSULATION</u>					
<u>2 ply 400 micron polypropylene laminate undertile membrane</u>					

65	Insulation laid taut over purlins and fixed concurrent with roof covering including Galvanized steel straining wires and sisalation tape. <u>100mm Thick, non-combustible, lightweight "Factorylite" building insulation with reinforced foil (white metalised foil) facing on both sides with thermal resistance of 2.56 m2.K/W. This system or other equal Architect approved system installed as per manufacturer's specifications</u>	m2	1	85.00	85.00
66	Insulation laid taut over purlins and fixed concurrent with roof covering including Galvanized steel straining wires and sisalation tape.	m2	1	110.00	110.00
67	One layer of Durafoil Ultra over purlins and over Factorylite. Durafoil to be laid longitudinally over working from the eaves to the ridge and lapped 150mm at joints. <u>Heavy Industrial Grade 420 - Double sided reflective foil laminate incorporating layers of kraft paper and reinforcing scrim, laminated together with low density polyethylene (293gsm).</u>	m2	1	85.00	85.00
68	Insulation laid taut over timber purlins (at approximately 900mm centres) and fixed concurrent with purlins, etc. <u>100mm Thick Polystyrene insulation</u>	m2	1	75.00	75.00
69	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires <u>"Sisalation 430" or similar approved heavy industrial grade aluminium foil based insulation</u>	m2	1	75.00	75.00
70	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires <u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u> <u>0,58mm Galvanised sheet iron</u>	m2	1	85.00	85.00
71	Headwall Flashing 462mm girth	m	1	170.00	170.00
72	Flashings 500mm girth	m2	1	190.00	190.00
73	Linings to valleys with riveted and soldered joints 462mm girth. <u>EAGLE EYE OPTICAL BIRD SCARE DEVICE</u>	m2	1	190.00	190.00
74	Supply and install Eagle eye as per manufactures instruction	No	1	3,000.00	3,000.00
Carried to Final Summary				R	<u>23,165.00</u>

BILL NO. 09**CARPENTRY AND JOINERY****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Prefabricated roof trusses:

Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.

Prices must include for all cross and windbracing according to the manufacturer's instruction.

Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.

Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.

Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements: (a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Institute for Timber Construction. (b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services. (c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work. (d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

The following minimum information shall be shown on the drawings:

- (a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.
- (b) Bracing as recommended by the Institute for Timber Construction.
- (c) Sizes and grading of the timber components.
- (d) Truss sizes, e.g. height of ridge or angle of pitch
- (e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).
- (f) Separate connection details for hip, valley and jack rafters.
- (g) Maximum spacing for purlins and bracing to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.
- (h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Joinery:

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.

	Fixing:				
	All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.				
	Where items are described as "bolted" the bolts have been measured elsewhere.				
	<u>ROOFS ETC</u>				
	<u>Sawn softwood:</u>				
1	38 x 114mm Wall plate.	m	1	45.00	45.00
2	38 x 114mm Longitudinal bracing (Provisional).	m	1	45.00	45.00
3	50 x 76mm Cross bracing (Provisional).	m	1	45.00	45.00
4	50 x 76mm Longitudinal bracing etc.	m	1	35.00	35.00
5	50 x 228mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m.	m	1	105.00	105.00
6	50 x 228mm Ditto exceeding 6.6m.	m	1	105.00	105.00
7	50 x 76mm Trimmers.	m	1	40.00	40.00
8	76 x 76mm Purlins	m	1	50.00	50.00
9	76 x 76mm Splayed gutter purlins.	m	1	55.00	55.00
10	76 x 114mm False timber fixed onto truss for barge boards	m	1	135.00	135.00
11	50 x 185mm x 1mm thick Mitek eCo galvanised steel long truss hanger, fixed to tie beam with 35mm x 3,15mm diameter Mitek eCo Permafix mild steel collar nails and fixed to concrete filled blockwork with 4 x M12 rawl bolts	No	1	95.00	95.00
	<u>Sawn softwood grade S5</u>				
12	25mm Gutter boarding	m2	1	40.00	40.00
13	38mm Boarding to tank stands	m2	1	250.00	250.00
14	22mm Tongued and grooved roof boarding in 102mm widths	m2	1	550.00	550.00
15	Raking cutting to 38mm boarding	m	1	45.00	45.00
16	Circular cutting to 38mm boarding	m	1	10.00	10.00
17	38 x 114mm Wall plates	m	1	40.00	40.00
18	38 x 114mm Wall plates bolted	m	1	45.00	45.00
19	38 x 114mm Bracing	m	1	45.00	45.00
20	38 x 38mm Hangers	m	1	25.00	25.00
21	38 x 114mm Runners	m	1	45.00	45.00
22	38 x 114mm Trimmers	m	1	45.00	45.00
23	38 x 114mm Sprockets	m	1	45.00	45.00
24	38 x 114mm Ceiling joists in lengths not exceeding 2,4m	m	1	45.00	45.00
25	38 x 114mm Ceiling joists in lengths exceeding 2m and not exceeding 3m	m	1	45.00	45.00
26	38 x 114mm Rafters in lengths not exceeding 2,4m	m	1	45.00	45.00
27	38 x 114mm Rafters in lengths exceeding 2,4m and not exceeding 3,9m	m	1	45.00	45.00
28	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	1	45.00	45.00
29	38 x 114mm Rafters in lengths exceeding 6,6m	m	1	45.00	45.00
30	38 x 114mm Bearers bolted	m	1	45.00	45.00
31	38 x 114mm Bearers in lengths exceeding 2,4m and not exceeding 3,9m	m	1	45.00	45.00
32	38 x 114mm Bearers in lengths exceeding 3,9m and not exceeding 6,6m	m	1	45.00	45.00

33	38 x 114mm Bearers in lengths exceeding 6,6m	m	1	45.00	45.00
34	38 x 114mm Bolted roof truss members in lengths not exceeding 2,4m	m	1	45.00	45.00
35	38 x 114mm Bolted roof truss members in lengths exceeding 2,4m and not exceeding 3,9m	m	1	45.00	45.00
36	38 x 114mm Bolted roof truss members in lengths exceeding 3,9m and not exceeding 6,6m	m	1	45.00	45.00
37	38 x 114mm Bolted roof truss members in lengths exceeding 6,6m	m	1	45.00	45.00
38	38 x 114mm Valley boarding	m	1	45.00	45.00
39	38 x 114mm Gangboarding	m	1	45.00	45.00
40	38 x 38mm Battens for roof covering	m	1	25.00	25.00
41	50 x 76mm Tilting fillets	m	1	45.00	45.00
42	38 x 38mm Cross battens at hips, valleys, etc	m	1	25.00	25.00
43	50 x 76mm Purlins	m	1	45.00	45.00
44	50 x 76mm Purlins bolted	m	1	45.00	45.00
45	50 x 76mm Splayed purlins	m	1	45.00	45.00
46	50 x 76mm Blocking piece 1000mm long	No	1	45.00	45.00
<u>Wrought softwood grade 4:</u>					
47	50 x 76mm Bearer fascia support (Provisional).	m	1	45.00	45.00
48	38 x 228mm Valley boarding.	m	1	85.00	85.00
49	50 x 228mm Gangboarding.	m	1	105.00	105.00
<u>Laminated S. A. pine:</u>					
50	75 x 228mm beam.	m	1	150.00	150.00
51	45 x 231mm Bearers bolted	m	1	230.00	230.00
52	45 x 231mm Beams, pergola beams, etc bolted	m	1	230.00	230.00
<u>Sundries:</u>					
53	Wrought faces on sawn timbers	m2	1	20.00	20.00
54	Two coats creosote on sawn timbers	m2	1	25.00	25.00
55	TRI FIX or equal hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	1	25.00	25.00
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>					
<u>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.</u>					
<u>Plate nailed timber roof truss construction:</u>					
The contractor will be required to provide a certificate of approval signed by a registered Profesional Engineer that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications					
56	Double pitch truss 4,00 x 1,50m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,100.00	1,100.00
57	Double pitch truss 5,00 x 1,50m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,200.00	1,200.00
58	Double pitch truss 6,00 x 1,50m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,350.00	1,350.00
59	Double pitch truss 8,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,350.00	1,350.00
60	Double pitch truss 10,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,650.00	1,650.00
61	Double pitch truss 12,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,750.00	1,750.00
62	Double pitch truss 14,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,950.00	1,950.00
63	Mono pitch truss 4,00 x 1,50m high overall with 900mm eaves overhang with truss sprocket at eaves	No	1	1,100.00	1,100.00
64	Mono pitch truss 5,00 x 1,50m high overall with 900mm eaves overhang with truss sprocket at eaves	No	1	1,200.00	1,200.00

65	Mono pitch truss 6,00 x 1,50m high overall with 900mm eaves overhang with truss sprocket at eaves	No	1	1,350.00	1,350.00
66	Mono pitch truss 8,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,650.00	1,650.00
67	Mono pitch truss 10,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	1,850.00	1,850.00
68	Mono pitch truss 12,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	2,150.00	2,150.00
69	Mono pitch truss 14,00 x 1,80m high overall with 1200mm eaves overhang with truss sprocket at eaves	No	1	2,350.00	2,350.00
<u>Sawn Softwood</u>					
70	Design, supply and install roof truss system complete in accordance with the Standard Building Regulations to suit roof area (measured on flat floor area inclusive of overhangs, etc)	m2	1	150.00	150.00
<u>EAVES, VERGES, ETC</u>					
<u>Pressed fibre-cement:</u>					
71	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	1	175.00	175.00
72	Extra on last for splay cut end.	No	1	45.00	45.00
73	Extra for 90 degree bend.	No	1	65.00	65.00
74	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	1	175.00	175.00
<u>High density plain fibre-cement flat sheets</u>					
75	6mm Eaves soffit covering (brandering elsewhere)	m2	1	95.00	95.00
76	6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 500 mm centres across sheets	m2	1	185.00	185.00
77	6mm Verge soffit covering (brandering elsewhere)	m2	1	95.00	95.00
78	6mm Verge soffit covering including 38 x 38mm sawn softwood branders along edges and at 500mm centres across sheets	m2	1	185.00	185.00
<u>SKIRTINGS</u>					
<u>Hardwood Skirting:</u>					
79	19 x 70mm Skirting including 19mm quadrant bead nailed.	m	1	85.00	85.00
<u>Pine</u>					
80	22 x 70mm skirting	m	1	70.00	70.00
81	22 x 105mm skirting	m	1	175.00	175.00
82	22 x 140mm skirting	m	1	200.00	200.00
<u>DOORS ETC</u>					
<u>Semi-solid flush doors with 10mm hardwood edges and faced with tempered smooth faced hardwood suitable for painting both sides:</u>					
83	40mm Door 813 x 1932mm high.	No	1	1,100.00	1,100.00
84	40mm Door 813 x 2032mm high.	No	1	1,350.00	1,350.00
85	40mm Door 877 x 1900mm high	No	1	1,350.00	1,350.00
86	40mm Door 900 x 2032mm high	No	1	1,450.00	1,450.00
<u>Solid Laminated exterior door with gabon veneer , suitable for painting both sides</u>					
87	44mm Door 813 x 2032mm high.	No	1	2,800.00	2,800.00
<u>Solid Laminated exterior door with gaboone veneer trimmed 100mm , suitable for painting both sides</u>					
88	44mm Door 813 x 2032mm high.	No	1	2,800.00	2,800.00
<u>Solid Laminated interior door with gaboone veneer trimmed 100mm , suitable for painting both sides</u>					
89	44mm Door 1000 x 2032mm high.	No	1	2,900.00	2,900.00

	<u>Hardwood timber single door with 105mm horizontal timber midrail positioned 905mm from base of double bottom rail,</u>				
90	44mm Door 813 x 2032mm high.	No	1	2,800.00	2,800.00
	<u>Solid core tempered hardboard faced solid laminated S.A. Pine flush doors with and including 2 no. x 10mm hardwood edges and suitable for painting both sides with and including 300mm kick plates to both sides:</u>				
91	40mm Door 813 x 2032mm high.	No	1	1,650.00	1,650.00
	<u>Solid core flush door with 15mm hardwood rounded meeting styles, faced with tempered smooth faced hardboard, suitable for painting both sides with and including 300mm kick plates to both sides and a safety glass panel</u>				
92	40mm Door 813 x 2032mm high.	No	1	1,600.00	1,600.00
	<u>Internal solid core flush panel door faced with tempered smooth faced hardboard with 10mm hardwood edges and suitable for painting both sides with and including 300mm kick plates to both sides:</u>				
93	40mm Door 813 x 2032mm high.	No	1	2,100.00	2,100.00
	<u>Internal solid core flush panel door faced with tempered smooth faced hardboard with 10mm hardwood edges and suitable for painting both sides:</u>				
94	40mm Door 813 x 2032mm high.	No	1	1,800.00	1,800.00
	<u>Selected Red Meranti Framed, ledged, braced and battened door with 6mm smooth tempered hardboard flush panel internally, with top rails and styles size 108x45mm, lock rail and bottom rail size 220x22mm and 22mm v-jointed Meranti T&G boarding</u>				
95	40mm Door 813 x 2032mm high.	No	1	2,500.00	2,500.00
96	Extra for 500 x 600mm opening for aluminium louvre unit.	No	1	350.00	350.00
	Extra for 500 x 600mm opening for Meranti opening louvre unit.	No	1	350.00	350.00
	<u>Selected Red Meranti Framed, ledged, braced and battened door with 6mm smooth tempered hardboard flush panel internally, with top rails and styles size 108x45mm, lock rail and bottom rail size 220x22mm and 22mm v-jointed Meranti T&G boarding</u>				
97	40mm Door 813 x 2032mm high.	No	1	2,500.00	2,500.00
	<u>Selected Red Meranti Framed, ledged, braced and battened door with 6mm smooth tempered hardboard flush panel internally, with top rails and styles size 108x40mm, lock rail and bottom rail size 220x20mm and 20mm v-jointed Meranti T&G boarding</u>				
98	40mm Door 813 x 2032mm high.	No	1	2,500.00	2,500.00
	<u>Selected Red Meranti Framed, ledged, braced and battened double door with rebated meeting styles matching panels, with top rails and styles size 108x40mm, lock rail and bottom rail size 220x40mm and including 19mm louvres at 45 degrees and stainless steel gauze vermin proofing</u>				
99	40mm Door 1506 x 2050mm high.	No	1	4,100.00	4,100.00
	<u>Selected Red Meranti Framed, ledged, braced and battened double door with 6mm smooth tempered hardboard flush panel internally, with top rails and styles size 108x40mm, lock rail and bottom rail size 220x20mm and 20mm v-jointed Meranti T&G boarding :</u>				
100	40mm Door 1500 x 2032mm high.	No	1	4,100.00	4,100.00
	<u>Solid core tempered hardboard faced solid laminated S.A. Pine flush door with and including 2no. x 10mm hardwood edges suitable for painting both sides:</u>				
101	40mm Door 813 x 2032mm high.	No	1	2,100.00	2,100.00
	<u>Solid core laminated double door with rebated meeting edges faced with 6mm tempered hardwood & 10mm hardwood edging suitable for painting both sides :</u>				
102	40mm Door 1511 x 2032mm high.	No	1	4,200.00	4,200.00
103	Extra for 300 x 300mm opening for aluminium louvre unit.	No	1	350.00	350.00
	<u>Swartland Cape Culture Meranti Doors or Equal Architect approved</u>				
104	Size 813 x 2 032mm high comprising bottom panel with bolelection moulds and glass top (SD18)	No	1	5,480.00	5,480.00
105	Size 813 x 2 400mm high comprising bottom panel with bolelection moulds and glass Top (SD18/2.4)	No	1	7,958.00	7,958.00
106	Size 813 x 2 032mm high comprising bottom panel with bolelection moulds and small pane glass top (SD19)	No	1	5,670.00	5,670.00
107	Size 813 x 2 032mm high comprising bottom panel with bolelection moulds and small pane glass top (SD19/2.4)	No	1	8,181.00	8,181.00
108	Size 813 x 2 032mm high framed, ledged, braced and battened bottom with full glass top (SD14)	No	1	3,665.00	3,665.00

109	Size 813 x 2 032mm high framed, ledged, braced and battened bottom with three pane glass top (SD6)	No	1	3,846.00	3,846.00
110	Size 813 x 2032mm high with full glass SD7	No	1	2,869.00	2,869.00
111	Size 813 x 2 400mm high with full glass (SD7/2.4)	No	1	3,957.00	3,957.00
112	Size 813 x 2 032mm high with happy full glass top (SD23)	No	1	4,936.00	4,936.00
113	Size 813 2 032mm high with happy full glass top (SD23/2.4)	No	1	6,887.00	6,887.00
114	Size 813 x 2 032mm high with happy patio (SD22)	No	1	4,936.00	4,936.00
115	Size 813 x 2 400mm high with happy patio (SD22/2.4)	No	1	6,887.00	6,887.00
116	Size 762 x 2 032mm high with happy patio (SD22/762)	No	1	4,936.00	4,936.00
117	Size 813 x 2 032mm high raised field bottom panel and full glass top (SD25)	No	1	4,583.00	4,583.00
118	Size 813 x 2 400mm high raised field bottom panel and full glass top (SD25/2.4)	No	1	6,608.00	6,608.00
119	Size 813 x2 032mm high with small pane glass (SD10)	No	1	3,195.00	3,195.00
120	Size 813 x 2 032mm high with small pane glass (SD10/2.4)	No	1	4,425.00	4,425.00
121	Size 813 x 2 032mm high with small pane glass (SD11)	No	1	3,665.00	3,665.00
122	Size 813 x 2 032mm high with two panel glass (SD20)	No	1	3,303.00	3,303.00
123	Size 813 x 2 032mm high, with two panel glass (SD20/2.4)	No	1	4,610.00	4,610.00
124	Size 762 x 2 032mm high comprising with two panel glass (SD20/762)	No	1	80.00	80.00
125	Size 1 200 x 2 032mm high, pivot comprising bottom panel with bollection moulds and full glass top (SD18P/1.2)	No	1	9,272.00	9,272.00
126	Size 1 500 x 2 032mm high, pivot comprising bottom panel with bollection moulds and full glass top (SD18P/1.5)	No	1	12,082.00	12,082.00
127	Size 1 200 x 2 032mm high pivot comprising bottom panel with raised field and full glass top (SD25P/1.2)	No	1	7,732.00	7,732.00
128	Size 1 200 x 2 400mm high, pivot comprising bottom panel with raised field and full glass top (SD25P/1.2/2.4)	No	1	10,946.00	10,946.00
129	Size 1 500 x 2 032mm high pivot comprising bottom panel with raised field and full glass top (SD25P/1.5)	No	1	10,020.00	10,020.00
130	Size 1 500 x 2 400mm high pivot comprising bottom panel with raised field and full glass top (SD25P/1.5/2.4)	No	1	14,220.00	14,220.00
131	Size 1 348 x 2 144mm high, hung in frame raised bottom field and full glass top (DIFSD25P/1.2)	No	1	14,864.00	14,864.00
132	Size 1 348 x 2 512mm high hung in frame raised bottom field and full glass top (DIFSD25P/1.2/2.4)	No	1	19,352.00	19,352.00
133	Size 1 648 x 2 144mm high hung in frame raised bottom field and full glass top (DIFSD25P/1.5)	No	1	19,352.00	19,352.00
134	Size 1 648 x 2 512 hung in frame raised bottom field and full glass top (DIFSD25P/1.5/2.4)	No	1	24,309.00	24,309.00
135	Size 813 x 2 032mm high comprising bottom panel with bolection moulds and glass top stable (OI SD18S/2.4/OI)	No	1	7,998.00	7,998.00
136	Size 813 x 2 032mm high comprising bottom panel with bolection moulds and glass top stable (OI SD18S/OI)	No	1	5,599.00	5,599.00
137	Size 813 x 2 032mm high comprising bottom panel with bolection moulds and glass top stable (OO SD18S/2.4/OO)	No	1	7,998.00	7,998.00
138	Size 813 x 2 032mm high comprising bottom panel with bolection moulds and glass top stable (OO SD18S/OO)	No	1	5,599.00	5,599.00
139	Size 813 x 2 032mm high comprising bottom panel with bolection moulds and small pane glass top stable (OI SD19S/OI)	No	1	6,797.00	6,797.00
140	Size 813 x 2 032mm high comprising bottom panel with bolection moulds and small pane glass top stable (OO SD19S/OO)	No	1	6,797.00	6,797.00
141	Size 813 x 2 032mm high framed, ledged, braced and battened bottom, full glass top stable (OO SD14S/OI)	No	1	3,924.00	3,924.00
142	Size 813 x 2 032mm high framed, ledged, braced and battened bottom, full glass top stable (OO SD14S/OO)	No	1	3,924.00	3,924.00
143	Size 1 210 x 2 032mm High Full Glass Pair Open In (SD7/1210/OI)	No	1	5,763.00	5,763.00
144	Size 1 612 x 2 400mm High Full Glass Pair Open In (SD7/1612/2.4/OI)	No	1	8,304.00	8,304.00
145	Size 1 612 x 2 032mm High Full Glass Pair Open In (SD7/1612/OI)	No	1	5,852.00	5,852.00
146	Size 1 210 x 2 032mm High Full Glass Pair Open Out (SD7/1210/OO)	No	1	5,852.00	5,852.00

147	Size 1 612 x 2 400mm High Full Glass Pair Open Out (SD7/1612/2.4/OO)	No	1	8,304.00	8,304.00
148	Size 1 612 x 2 032mm High Full Glass Pair Open Out (SD7/1612/OO)	No	1	5,852.00	5,852.00
149	Size 1 210 x 2 032mm High Happy Pair Open In (SD22/1210/OI)	No	1	8,888.00	8,888.00
150	Size 1 612 x 2 400mm High Comprising Happy Pair Open In (SD22/1612/2.4/OI)	No	1	14,241.00	14,241.00
151	Size 1 612 x 2 032mm High Comprising Happy Pair Open In (SD22/1612/OI)	No	1	9,984.00	9,984.00
152	Size 1 210 x 2 032mm High Comprising Happy Pair Open Out (SD22/1210/OO)	No	1	8,888.00	8,888.00
153	Size 1 612 x 2 400mm High Comprising Happy Pair Open Out (SD22/1612/2.4/OO)	No	1	14,241.00	14,241.00
154	Size 1 612 x 2 032mm High Comprising Happy Pair Open Out (SD22/1612/OO)	No	1	9,984.00	9,984.00
155	Size 1 210 x 2 032mm High Comprising Happy with Full Glass Top Pair Open In (SD23/1210/OI)	No	1	8,888.00	8,888.00
156	Size 1 612 x 2 400mm High Comprising Happy with Full Glass Top Pair Open In (SD23/1612/2.4/OI)	No	1	14,241.00	14,241.00
157	Size 1 612 x 2 032mm High Comprising Happy with Full Glass Top Pair Open In (SD23/1612/OI)	No	1	9,984.00	9,984.00
158	Size 1 612 x 2 400mm High Comprising Happy with Full Glass Top Pair Open Out (SD23/1612/2.4/OO)	No	1	14,241.00	14,241.00
159	Size 1 612 x 2 032mm High Comprising Happy with Full Glass Top Pair Open Out (SD23/1612/OO)	No	1	9,984.00	9,984.00
160	Size 1 210 x 2 032mm High Comprising Happy with Full Glass Top Pair Open Out (SD23/1210/OO)	No	1	8,888.00	8,888.00
161	Size 1 210 x 2 032mm High Comprising Small Pane Glass Pair Open In (SD10/1210/OI)	No	1	6,134.00	6,134.00
162	Size 1 612 x 2 400 Comprising Small Pane Glass Pair Open In (SD10/1612/2.4/OI)	No	1	6,503.00	6,503.00
163	Size 1 612 x 2032mm High Comprising Small Pane Glass Pair Open In (SD10/1612/OI)	No	1	9,760.00	9,760.00
164	Size 1 210 x 2 032mm High Comprising Small Pane Glass Pair Open In (SD11/1210/OI)	No	1	6,824.00	6,824.00
165	Size 1 612 x 2 032mm High Comprising Small Pane Glass Pair Open In (SD11/1612/OI)	No	1	7,443.00	7,443.00
166	Size 1 210 x 2 032mm High Comprising Small Pane Glass Pair Open Out (SD10/1210/OO)	No	1	6,134.00	6,134.00
167	Size 1 612 x 2 032mm High Comprising Small Pane Glass Pair Open Out (SD10/1612/2.4/OO)	No	1	9,760.00	9,760.00
168	Size 1 612 x 2 032mm High Comprising Small Pane Glass Pair Open Out (SD10/1612/OO)	No	1	6,503.00	6,503.00
169	Size 1 210 x 2 032mm High Comprising Small Pane Glass Pair Open Out (SD11/1210/OO)	No	1	6,824.00	6,824.00
170	Size 1 612 x 2 032mm High Comprising Small Pane Glass Pair Open Out (SD11/1612/OO)	No	1	7,443.00	7,443.00
171	Size 1 210 x 2 032mm High Comprising Two Pane Glass Pair Open In (SD20/1210/OI)	No	1	6,571.00	6,571.00
172	Size 1 612 x 2 032mm High Comprising Two Pane Glass Pair Open In (SD20/1612/2.4/OI)	No	1	9,720.00	9,720.00
173	Size 1 612 x 2 032mm High Comprising Two Pane Glass Pair Open In (SD20/1612/OI)	No	1	6,720.00	6,720.00
174	Size 1 210 x 2 032mm High Comprising Two Pane Glass Pair Open Out (SD20/1210/OO)	No	1	6,571.00	6,571.00
175	Size 1 612 x 2 032mm High Comprising Two Pane Glass Pair Open Out (SD20/1612/2.4/OO)	No	1	9,720.00	9,720.00
176	Size 1 612 x 2 032mm High Comprising Two Pane Glass Pair Open Out (SD20/1612/OO)	No	1	6,720.00	6,720.00
177	Size 813x 2032mm High Framed, Ledged, Braced and Battened Ply back (SD2/PB)	No	1	4,318.00	4,318.00
178	Size 762 x 2032mm High Framed, Ledged, Braced and Battened Ply back (SD2/PB/762)	No	1	4,318.00	4,318.00
179	Size 813 x 2032mm High Framed, Ledged, Braced and Battened (SD2/OB/BR)	No	1	3,884.00	3,884.00
180	Size 762 x 2032mm High Framed, Ledged, Braced and Battened (SD2/OB/BR/762)	No	1	3,884.00	3,884.00
181	Size 1 348 x 2 144mm High Pivot Hung in Frame with 2 Panel (DIFSD16P/1.2)	No	1	19,587.00	19,587.00
182	Size 1 348 x 2 512mm High Pivot Hung in Frame with 2 Panel (DIFSD16P/1.2/2.4)	No	1	26,475.00	26,475.00
183	Size 1 648 x 2 144mm High Pivot Hung in Frame with 2 Panel (DIFSD16P/1.5)	No	1	24,564.00	24,564.00
184	Size 1 648 x 2 512mm High Pivot Hung in Frame with 2 Panel (DIFSD16P/1.5/2.4)	No	1	33,612.00	33,612.00
185	Size 1 348 x 2 144mm High Pivot Hung in Frame Cape (Dutch DIFSD24P/1.2)	No	1	20,602.00	20,602.00
186	Size 1 348 x 2 512 Pivot Door Hung in Frame Cape Dutch (DIFSD24P/1.2/2.4)	No	1	27,973.00	27,973.00
187	Size 1 648 x 2 144mm High Pivot Hung in Frame Cape Dutch (DIFSD24P/1.5)	No	1	25,876.00	25,876.00

188	Size 1 648 x 2 512mm High Pivot Hung in Frame Cape Dutch (DIFSD24P/1.5/2.4)	No	1	35,298.00	35,298.00
189	Size 1 348 x 2 144mm High Pivot Hung in Frame Diagonal Slatted (DIFSD31P/1.2)	No	1	16,777.00	16,777.00
190	Size 1 348 x 2512mm High Pivot Hung in Frame Diagonal Slatted (DIFSD31P/1.2/2.4)	No	1	22,352.00	22,352.00
191	Size 1 648 x 2 144mm High Pivot Hung in Frame Diagonal Slatted (DIFSD31P/1.5)	No	1	20,927.00	20,927.00
192	Size 1 648 x 2 512mm High Pivot Hung in Frame Diagonal Slatted (DIFSD31P/1.5/2.4)	No	1	31,514.00	31,514.00
193	Size 1 348 x 2 144mm High Pivot Hung in Frame Horizontal Slatted (DIFSD30P/1.2)	No	1	15,839.00	15,839.00
194	Size 1 348 x 2 512mm High Pivot Hung in Frame Horizontal Slatted (DIFSD30P/1.2/2.4)	No	1	20,927.00	20,927.00
195	Size 1 648 x 2 144mm High Pivot Hung in Frame Horizontal Slatted (DIFSD30P/1.5)	No	1	19,693.00	19,693.00
196	Size 1 648 x 2 512mm High Pivot Hung in Frame Horizontal Slatted (DIFSD30P/1.5/2.4)	No	1	29,335.00	29,335.00
197	Size 1 348 x 2 144mm High Pivot Hung in Frame with Raised Top and Bottom Field (DIFSD26P/1.2)	No	1	16,777.00	16,777.00
198	Size 1 348 x 2 512mm High Pivot Hung in Frame with Raised Top and Bottom Field (DIFSD26P/1.2/2.4)	No	1	21,974.00	21,974.00
199	Size 1 648 x 2 144mm High Pivot Hung in Frame with Raised Top and Bottom Field (DIFSD26P/1.5)	No	1	20,927.00	20,927.00
200	Size 1 648 x 2 512mm High Pivot Hung in Frame with Raised Top and Bottom Field (DIFSD26P/1.5/2.4)	No	1	27,689.00	27,689.00
201	Size 813 x 2 032mm High Cape Dutch with Bolection Moulds (SD24)	No	1	7,958.00	7,958.00
202	Size 813 x 2 400mm High Cape Dutch with Bolection Moulds (SD24/2.4)	No	1	11,518.00	11,518.00
203	Size 813 x 2 032mm High Diagonal Slatted (SD31)	No	1	5,706.00	5,706.00
204	Size 813 x 2 400mm High Diagonal Slatted (SD31/2.4)	No	1	8,254.00	8,254.00
205	Size 813 x 2 032mm High Horizontal Slatted (SD30)	No	1	5,148.00	5,148.00
206	Size 813 x 2 400mm High Horizontal Slatted (SD30/2.4)	No	1	7,431.00	7,431.00
207	Size 813 x 2 032mm High Comprising One Panel with Bolection Moulds (SD15)	No	1	6,724.00	6,724.00
208	Size 813 x 2 400mm High Comprising One Panel with Bolection Moulds (SD15/2.4)	No	1	9,680.00	9,680.00
209	Size 813 x 2 032mm High Comprising Three Panel with Bolection Moulds (SD17)	No	1	7,879.00	7,879.00
210	Size 813 x 2 400mm High Comprising Three Panel with Bolection Moulds (SD17/2.4)	No	1	11,369.00	11,369.00
211	Size 813 x 2 032mm High With Top and Bottom Raised Field Panel (SD26)	No	1	5,706.00	5,706.00
212	Size 813 x 2 400mm High With Top and Bottom Raised Field Panel (SD26/2.4)	No	1	8,254.00	8,254.00
213	Size 813 x 2 032mm High With Two Panel with Bolection Moulds (SD16)	No	1	7,472.00	7,472.00
214	Size 813 x 2 400mm High With Two Panel with Bolection Moulds (SD16/2.4)	No	1	10,804.00	10,804.00
215	Size 762 x 2 032mm High Comprising Two Panel with Bolection Moulds (SD16/762)	No	1	7,472.00	7,472.00
216	Size 1 200 x 2 032mm High Pivot Comprising 2 Panel with Bolection Moulds (SD16P/1.2)	No	1	12,455.00	12,455.00
217	Size 1 200 x 2 400mm High Pivot Comprising 2 Panel with Bolection Moulds (SD16P/1.2/2.4)	No	1	18,079.00	18,079.00
218	Size 1 500 x 2 032mm High Pivot Comprising 2 Panel with Bolection Moulds (SD16P/1.5)	No	1	16,169.00	16,169.00
219	Size 1 500 x 2 400mm High Pivot Comprising 2 Panel with Bolection Moulds (SD16P/1.5/2.4)	No	1	23,403.00	23,403.00
220	Size 1 200 x 2 032mm High Pivot Comprising Cape Dutch with Bolection Moulds (SD24P/1.2)	No	1	13,470.00	13,470.00
221	Size 1 200 x 2 400mm High Pivot Comprising Cape Dutch with Bolection Moulds (SD24P/1.2/2.4)	No	1	19,578.00	19,578.00
222	Size 1 500 x 2 032mm High Pivot Comprising Cape Dutch with Bolection Moulds (SD24P/1.5)	No	1	17,480.00	17,480.00
223	Size 1 500 x 2 400mm High Pivot Comprising Cape Dutch with Bolection Moulds (SD24P/1.5/2.4)	No	1	25,089.00	25,089.00
224	Size 1 200 x 2 032mm High Pivot With Diagonal Slatted (SD31P/1.2)	No	1	9,645.00	9,645.00
225	Size 1 200 x 2 400mm High Pivot With Diagonal Slatted (SD31P/1.2/2.4)	No	1	13,956.00	13,956.00
226	Size 1 500 x 2 032mm High Pivot With Diagonal Slatted (SD31P/1.5)	No	1	12,531.00	12,531.00
227	Size 1 500 x 2 400mm High Pivot With Diagonal Slatted (SD31P/1.5/2.4)	No	1	21,305.00	21,305.00
228	Size 1 200 x 2 032mm High Pivot With Horizontal Slatted (SD30P/1.2)	No	1	8,706.00	8,706.00
229	Size 1 200 x 2 400mm High Pivot With Horizontal Slatted (SD30P/1.2/2.4)	No	1	12,531.00	12,531.00

230	Size 1 500 x 2 032mm High Pivot With Horizontal Slatted (SD30P/1.5)	No	1	11,297.00	11,297.00
231	Size 1 500 x 2 400mm High Pivot with Horizontal Slatted (SD30P/1.5/2.4)	No	1	19,126.00	19,126.00
232	Size 1 200 x 2 032mm High Pivot With Top and Bottom Raised Field Panel (SD26P/1.2)	No	1	9,645.00	9,645.00
233	Size 1 200 x 2 400mm High Pivot With Top and Bottom Raised Field Panel (SD26P/1.2/2.4)	No	1	13,578.00	13,578.00
234	Size 1 500 x 2 032mm High Pivot With Top and Bottom Raised Field Panel (SD26P/1.5)	No	1	12,531.00	12,531.00
235	Size 1 500 x 2 400mm High Pivot With Top and Bottom Raised Field Panel (SD26P/1.5/2.4)	No	1	17,480.00	17,480.00
236	Size 813 x 2 032mm High Cape Dutch with Bolection Moulds Stable (OI SD24S/OI)	No	1	7,846.00	7,846.00
237	Size 813 x 2 032mm High Cape Dutch with Bolection Moulds Stable (OO SD24S/OO)	No	1	7,846.00	7,846.00
238	Size 813 x 2 032mm High Framed, Ledged, Braced and Battened Ply back Stable (OI SD25/PB/OI)	No	1	4,611.00	4,611.00
239	Size 813 x 2 032mm High Framed, Ledged, Braced and Battened Ply back Stable (OO SD25/PB/OO)	No	1	4,611.00	4,611.00
240	Size 813 x 2 032mm High Framed, Ledged, Braced and Battened Stable (OI SD25/OI)	No	1	4,252.00	4,252.00
241	Size 813 x 2 032mm High Framed, Ledged, Braced and Battened Stable (OO SD25/OO)	No	1	4,252.00	4,252.00
242	Size 813 x 2 032mm High Comprising Two Panel with Bolection Moulds Stable (OI SD16S/OI)	No	1	8,109.00	8,109.00
243	Size 813 x 2 032mm High Comprising Two Panel with Bolection Moulds Stable (OO SD16S/OO)	No	1	8,109.00	8,109.00
244	Size 1 612 x 2 032mm High With Full Louvre Pair OI (SD21/1612/OI)	No	1	9,654.00	9,654.00
245	Size 1 612 x 2 032mm High With Full Louvre Pair OO (SD21/1612/OO)	No	1	9,654.00	9,654.00
246	Size 1 612 x 2 032mm High With Horizontal Slatted Pair (OI SD30/1612/OI)	No	1	10,409.00	10,409.00
247	Size 1 612 x 2 032mm High With Horizontal Slatted Pair (OO SD30/1612/OI)	No	1	10,409.00	10,409.00
248	Size 1 210 x 2 032mm High Comprising Two Panel with Bolection Moulds Pair (OI SD16/1210/OI)	No	1	15,057.00	15,057.00
249	Size 1 612 x 2 032mm High Comprising Two Panel with Bolection Moulds Pair (OI SD16/1612/OI)	No	1	15,057.00	15,057.00
250	Size 1 210 x 2 032mm High Comprising Two Panel with Bolection Moulds Pair (OO SD16/1210/OO)	No	1	15,057.00	15,057.00
251	Size 1 612 x 2 032mm High Comprising Two Panel with Bolection Moulds Pair (OO SD16/1612/OO)	No	1	15,057.00	15,057.00
252	Size 1 612 x 2 032mm High Framed, Ledged, Braced and Battened Pair (OI SD2/OB/1612/OI)	No	1	7,882.00	7,882.00
253	Size 1 612 x 2 032mm High Framed, Ledged, Braced and Battened Pair (OO SD2/OB/1612/OO)	No	1	7,882.00	7,882.00
254	Size 813 x 2 032mm High Comprising Happy Full Glass (PD3)	No	1	1,619.00	1,619.00
255	Size 762 x 2 032mm High Comprising Happy Full Glass (PD3/762)	No	1	1,619.00	1,619.00
256	Size 813 x 2 032mm High Comprising Happy Full Glass Top (PD12)	No	1	2,772.00	2,772.00
257	Size 762 x 2 032mm High Comprising Happy Full Glass Top (PD12/762)	No	1	2,772.00	2,772.00
258	Size 813x 2 032mm High Comprising Happy Full Glass (PD11)	No	1	2,772.00	2,772.00
259	Size 762 x 2 032mm high PD11/762	No	1	2,772.00	2,772.00
260	Size 813 x 2 032mm high PD4	No	1	2,037.00	2,037.00
261	Size 762 x 2 032mm high PD4/762	No	1	2,037.00	2,037.00
262	Size 813 x 2 032mm high PD6	No	1	1,863.00	1,863.00
263	Size 762 x 2 032mm high Patio Two Pane Glass PD6/762	No	1	1,863.00	1,863.00
264	Size 813 x 2032mm High Comprising Ply Panel Bottom Full Glass Top (PD14)	No	1	2,458.00	2,458.00
265	Size 813 x 2 032mm High Comprising Ply Panel Bottom Small Pane Glass Top (PD10)	No	1	2,840.00	2,840.00
266	Size 813 x 2 032mm High Comprising Panel Bottom Three Pane Glass Top (PD9)	No	1	2,607.00	2,607.00
267	Size 813 x 2 032mm High FLB Bottom With Full Glass Top (PD13)	No	1	2,211.00	2,211.00
268	Size 813 x 2 032mm High FLB Bottom With Small Pane Glass Top (PD5/PB)	No	1	2,598.00	2,598.00
269	Size 813 x 2 032mm High FLB Bottom With Three Pane Glass Top (PD2/PB)	No	1	2,318.00	2,318.00
270	Size 813 x 2 032mm High Patio Comprising Happy Full Glass Top Stable Open In (PD12S/OI)	No	1	2,950.00	2,950.00

271	Size 813 x 2 032mm High Patio Comprising Happy Full Glass Top Stable Open Out (PD12S/OO)	No	1	2,950.00	2,950.00
272	Size 813 x 2 032mm High Patio Comprising Happy Stable Open In (PD11S/OI)	No	1	2,950.00	2,950.00
273	Size 813 x 2 032mm High Patio Comprising Happy Stable Open Out (PD11S/OO)	No	1	2,950.00	2,950.00
274	Size 813 x 2 032mm High With Ply Panel Bottom Full Glass Top Stable Open In PD14S/OI w:813 h:2032	No	1	2,599.00	2,599.00
275	Size 813 x 2 032mm High With Ply Panel Bottom And Full Glass Top Stable Open Out (PD14S/OO)	No	1	2,599.00	2,599.00
276	Size 813 x 2 032mm High With Ply Panel Bottom And Small Pane Glass Top Stable Open In (PD10S/OI)	No	1	2,984.00	2,984.00
277	Size 813 x 2032mm High Comprising Ply Panel Bottom With Small Pane Glass Top Stable Open Out (PD10S/OO)	No	1	2,984.00	2,984.00
278	Size 813 x 2 032mm High Comprising Ply Panel Bottom With Three Pane Glass Top Stable Open In (PD9S/OI)	No	1	2,742.00	2,742.00
279	Size 813 x 2 032mm High Comprising Ply Panel Bottom With Three Pane Glass Top Stable Open Out (PD9S/OO)	No	1	2,742.00	2,742.00
280	Size 813 x 2 032mm High with FLB Bottom Full Glass Top Stable Open In (PD13S/OI)	No	1	2,324.00	2,324.00
281	Size 813 x 2 032mm High with FLB Bottom Full Glass Top Stable Open Out (PD13S/OO)	No	1	2,324.00	2,324.00
282	Size 813 x 2 032mm High with FLB Bottom Small Pane Glass Top Stable Open In (PD5S/PB/OI)	No	1	2,742.00	2,742.00
283	Size 813 x 2 032mm High with FLB Bottom Small Pane Glass Top Stable Open Out (PD5S/PB/OO)	No	1	2,742.00	2,742.00
284	Size 813 x 2 032mm High with FLB Bottom Three Pane Glass Top Stable Open In (PD2S/PB/OI)	No	1	2,428.00	2,428.00
285	Size 813 x 2 032mm High With FLB Bottom Three Pane Glass Top Stable Open Out (PD2S/PB/OO)	No	1	2,428.00	2,428.00
286	Size 813 x 2 032mm High Comprising Happy Small Pane Top (PD19)	No	1	2,772.00	2,772.00
287	Size 1 210 x 2 032mm High Comprising Full Glass Pair (PD3/1210)	No	1	3,236.00	3,236.00
288	Size 1 511 x 2 032mm High Comprising Patio Full Glass Pair (PD3/1511)	No	1	3,351.00	3,351.00
289	Size 1 612 x 2 032mm High Comprising Patio Full Glass Pair (PD3/1612)	No	1	3,351.00	3,351.00
290	Size 1 210 x 2 032mm High Comprising Patio Happy Full Glass Top Pair (PD12/1210)	No	1	4,941.00	4,941.00
291	Size 1 511 x 2 032mm High Comprising Patio Happy Full Glass Top Pair (PD12/1511)	No	1	5,657.00	5,657.00
292	Size 1 612 x 2 032mm High Comprising Patio Happy Full Glass Top Pair (PD12/1612)	No	1	5,657.00	5,657.00
293	Size 1 210 x 2 032mm High Comprising Patio Happy Pair (PD11/1210)	No	1	4,941.00	4,941.00
294	Size 1 511 x 2 032mm High Comprising Patio Happy Pair (PD11/1511)	No	1	5,657.00	5,657.00
295	Size 1 612 x 2 032mm High Comprising Patio Happy Pair (PD11/1612)	No	1	5,657.00	5,657.00
296	Size 1 210 x 2 032mm High Comprising Patio Small Pane Glass Pair (PD4/1210)	No	1	3,828.00	3,828.00
297	Size 1 511 x 2 032mm High Comprising Patio Small Pane Glass Pair (PD4/1511)	No	1	4,188.00	4,188.00
298	Size 1 612 x 2 032mm High Comprising Patio Small Pane Glass Pair (PD4/1612)	No	1	4,188.00	4,188.00
299	Size 1 210 x 2 032mm High Comprising Patio Two Pane Glass Pair (PD6/1210)	No	1	3,688.00	3,688.00
300	Size 1 511 x 2 032mm High Comprising Patio Two Pane Glass Pair (PD6/1511)	No	1	3,840.00	3,840.00
301	Size 1 612 x 2 032mm High Comprising Patio Two Pane Glass Pair (PD6/1612)	No	1	3,840.00	3,840.00
302	Size 1 612 x 2 032mm High Comprising Ply Panel Bottom with Small Pane Glass Top Pair (PD10/1612)	No	1	5,793.00	5,793.00
303	Size 813 x 2 032mm High Framed and Battened Bottom Flyscreen Top (PD73)	No	1	1,978.00	1,978.00
304	Size 813 x 2 032mm High Framed, Ledged and Battened Flush Back (PD1/FB)	No	1	2,415.00	2,415.00
305	Size 813 x 2 032mm High Framed, Ledged and Battened Open Back (PD1/OB)	No	1	1,976.00	1,976.00

306	Size 762 x 2 032mm High Framed, Ledged and Battened Open Back (PD1/OB/762)	No	1	1,976.00	1,976.00
307	Size 813 x 2 032mm High Framed, Ledged and Battened Ply Back (PD1/PB)	No	1	2,222.00	2,222.00
308	Size 762 x 2 032mm High Framed, Ledged and Battened Ply Back (PD1/PB/762)	No	1	2,222.00	2,222.00
309	Size 813 x 2 032mm High Framed, Ledged and Battened Ply Back with Lock Rail (PD1L/PB)	No	1	2,222.00	2,222.00
310	Size 813 x 2 032mm High Braces for Framed, Ledged and Battened Open Back (PD1/OB/BR)	No	1	2,089.00	2,089.00
311	Size 813 x 2 032mm High Horizontal Slatted no Frame (PD60)	No	1	3,285.00	3,285.00
312	Size 813 x 2 032mm High Horizontal Slatted Ply Back (PD1H)	No	1	2,367.00	2,367.00
313	Size 1 348 x 2 144mm High Pivot Hung in Frame 12 Panel (DIFPD32P/1.2)	No	1	150.00	150.00
314	Size 1 348 x 2 144mm High Pivot Hung in Frame Horizontal Slatted (DIFPD60P/1.2)	No	1	80.00	80.00
315	Size 813 x 2 032mm High Carolina (PD46)	No	1	2,548.00	2,548.00
316	Size 813 x 2 032mm High Comprising Eight Panel Colonial (PD28)	No	1	1,920.00	1,920.00
317	Size 813 x 2 032mm High Flyscreen With 4 Panel (PD74)	No	1	2,141.00	2,141.00
318	Size 813 x 2 032mm High Four Panel Colonial (PD24)	No	1	1,920.00	1,920.00
319	Size 762 x 2 032mm High Four Panel Colonial (PD24/762)	No	1	1,920.00	1,920.00
320	Size 813 x 2 032mm High Kentucky (PD48)	No	1	2,329.00	2,329.00
321	Size 813 x 2 032mm High Security With 6 Panel (PD56)	No	1	3,043.00	3,043.00
322	Size 813 x 2 032mm High Security With 8 Panel (PD58)	No	1	3,370.00	3,370.00
323	Size 813 x 2 032mm High Security With 8 Panel (PD58)	No	1	3,043.00	3,043.00
324	Size 813 x 2 032mm High With Six Panel Colonial (PD26)	No	1	1,920.00	1,920.00
325	Size 813 x 2 032mm High With Six Panel (Equal PD26E)	No	1	1,920.00	1,920.00
326	Size 813 x 2 032mm High With Ten Panel Colonial (PD30)	No	1	2,006.00	2,006.00
327	Size 813 x 2 032mm High Comprising Three Ply Panel (PD7)	No	1	2,483.00	2,483.00
328	Size 813 x 2 032mm High Comprising Two Panel Cape Dutch (PD22)	No	1	2,329.00	2,329.00
329	Size 813 x 2 032mm High Comprising Two Ply Panel (PD8)	No	1	2,263.00	2,263.00
330	Size 813 x 2 032mm High Comprising Two Ply Panel (PD8/762)	No	1	2,263.00	2,263.00
331	Size 813 x 2 032mm High Comprising Two Raised and Fielded Panel (PD20)	No	1	2,030.00	2,030.00
332	Size 762 x 2 032mm High Comprising Two Raised and Fielded Panel (PD20/762)	No	1	2,030.00	2,030.00
333	Size 813 x 2 032mm High Framed, Ledged and Battened Openback Stable (PD1S/OB)	No	1	2,061.00	2,061.00
334	Size 813 x 2 032mm High Framed, Ledged and Battened Ply Back Stable (PD1S/PB)	No	1	2,267.00	2,267.00
335	Size 762 x 2 032mm High Framed, Ledged and Battened Ply Back Stable (PD1S/PB/762)	No	1	2,267.00	2,267.00
336	Size 813 x 2 032mm High Braces for Framed, Ledged and Battened Openback Stable (PD1S/OB/BR)	No	1	2,227.00	2,227.00
337	Size 813 x 2 032mm High Comprising Eight Panel Colonial Stable (PD28S)	No	1	2,425.00	2,425.00

338	Size 813 x 2 032mm High Comprising Horizontal Slatted Ply Back Stable (PD1HS)	No	1	2,543.00	2,543.00
339	Size 813 x 2 032mm High Comprising Horizontal Slatted Stable no Frame (PD60S)	No	1	119.00	119.00
340	Size 813 x 2 032mm High Security With 6 Panel Stable (OI PD56S/OI)	No	1	3,409.00	3,409.00
341	Size 813 x 2 032mm High Comprising Two Panel With Stable Open In (PD8S/OI)	No	1	2,491.00	2,491.00
342	Size 813 x 2 032mm High Comprising Two Panel With Stable Open Out (PD8S/OO)	No	1	2,491.00	2,491.00
343	Size 1 612 x 2 032mm High With Two Ply Panel Pair (PD8/1612)	No	1	4,640.00	4,640.00
344	Size 1 210 x 2 032mm High With Two Raised and Fielded Panel Pair (PD20/1210)	No	1	4,174.00	4,174.00
345	Size 1 612 x 2 032mm High With Two Raised and Fielded Panel Pair (PD20/1612)	No	1	4,174.00	4,174.00
346	Size 1 210 x 2 032mm High Framed, Ledged and Battened Open Back Pair (PD1/OB/1210)	No	1	3,876.00	3,876.00
347	Size 1 612 x 2 032mm High Framed, Ledged and Battened Open Back Pair (PD1/OB/1612)	No	1	3,876.00	3,876.00
348	Size 1 210 x 2 032mm High Framed, Ledged and Battened Ply Back Pair (PD1/PB/1210)	No	1	4,359.00	4,359.00
349	Size 1 612 x 2 032mm High Framed, Ledged and Battened Ply Back Pair (PD1/PB/1612)	No	1	4,369.00	4,369.00
350	Size 1 210 x 2 032mm High Comprising Horizontal Slatted Pair with no frame (PD60/1210)	No	1	160.00	160.00
351	Size 1 612 x 2 032mm High Comprising Horizontal Slatted Pair with no frame (PD60/1612)	No	1	160.00	160.00
352	Size 1 348 x 2 144mm High Hung in Frame Comprising of 6 Panel with Buffalo Craft Centre Panel (DIFCDBFLHSOP/1.2)	No	1	80.00	80.00
353	Size 1 348 x 2 144mm High Hung in Frame Comprising of 6 Panel with Elephant Craft Centre Panel (DIFCDELPHSOP/1.2)	No	1	80.00	80.00
354	Size 1 348 x 2 144mm High Hung in Frame Comprising of 6 Panel with Lion Craft Centre Panel (DIFCDLIOHSOP/1.2)	No	1	80.00	80.00
355	Size 1 348 x 2 144mm High Hung in Frame Comprising of 6 Panel with Rhino Craft Centre Panel (DIFCDRHNHSOP/1.2)	No	1	80.00	80.00
356	Size 1 348 x 2 144mm High Hung in Frame Comprising of 6 Panel with Symphony Craft Centre Panel (DIFCDSPNHSOP/1.2)	No	1	80.00	80.00
	<u>Lotus Meranti Cotage Doors or equal Architect approved</u>				
357	Size 2 630 x 2 032mm High with Sidelights	No	1	23,897.00	23,897.00
358	Size 3 030 x 2 032mm High with Sidelights	No	1	25,272.00	25,272.00
359	Size 2 630 x 2 032mm High with Sidelights	No	1	23,168.00	23,168.00
360	Size 3 030 x 2 032mm High with Sidelights	No	1	24,544.00	24,544.00
	<u>TDM Flushback Hardwood Doors or equal Architect approved</u>				
361	Size 762 x 2 032mm High Single Sided Linenfold	No	1	2,830.00	2,830.00
362	Size 762 x 2 032mm High BB	No	1	2,379.00	2,379.00
363	Size 813 x 2 032mm High BB	No	1	2,000.00	2,000.00
364	Size 813 x 2 032mm High BB Finger Jointed	No	1	2,025.00	2,025.00
365	Size 813 x 2 032mm High BB Square Joint	No	1	3,298.00	3,298.00
366	Size 762 x 2 032mm High Openback Hardwood Single Sided Linenfold	No	1	2,625.00	2,625.00
367	Size 762 x 2 032mm High S.A. Pine BB Finger Jointed	No	1	1,206.00	1,206.00
368	Size 813 x 2 032mm High S.A. Pine BB Finger Jointed	No	1	1,092.00	1,092.00
369	Size 813 x 2 032mm High Saligna BB Finger Jointed	No	1	1,020.00	1,020.00
370	Size 813 x 2 032mm High S.A. Pine BB Finger Jointed Stable	No	1	788.00	788.00
371	Size 813 x 2 032mm High Saligna BB Finger Jointed Stable	No	1	1,125.00	1,125.00
372	Size 813 x 2 032mm High S.A. Pine BB Finger Jointed Stable	No	1	788.00	788.00
373	Size 813 x 2 032mm High Saligna BB Finger Jointed Stable	No	1	1,125.00	1,125.00
	<u>AC Double Sided Meranti Doors or equal Architect approved</u>				

374	Size 813 x 2 032 x 44mm Thick Diagonally Slatted	No	1	5,213.00	5,213.00
375	Size 813 x 2 032 x 44mm Thick Herringbone Slatted	No	1	6,489.00	6,489.00
376	Size 813 x 2 032 x 44mm Thick Horizontally Slatted (HS15)	No	1	4,369.00	4,369.00
377	Size 813 x 2 032 x 44mm Thick Horizontally Slatted (HS15)	No	1	4,369.00	4,369.00
378	Size 813 x 2 032 x 44mm Thick Vertically Slatted Double Full Arched (AC Arch)	No	1	3,980.00	3,980.00
379	Size 813 x 2 032mm High Linenfold Flushback	No	1	2,346.00	2,346.00
380	Size 813 x 2 032mm High Linenfold Openback	No	1	5,020.00	5,020.00
381	Size 813 x 2 032mm High Horizontally Slatted Double Sided Stable (HS15)	No	1	4,784.00	4,784.00
	<u>Lotus Meranti Doors or equal Architect approved</u>				
382	Size 813 x 2 032mm High Diagonally Slatted Entrance	No	1	6,479.00	6,479.00
383	Size 813 x 2 032mm High Herring Bone Slatted Entrance	No	1	7,760.00	7,760.00
384	Size 813 x 2 032mm High Horizontally Slatted Entrance	No	1	4,382.00	4,382.00
385	Size 813 x 2 032mm High Vertically Slatted Entrance	No	1	4,876.00	4,876.00
	<u>Meranti Pine Louvre Door or Equal Architect Approved</u>				
386	Size 305 x 1 220 x 32mm Thick	No	1	808.00	808.00
387	Size 305 x 2 032 x 32mm Thick	No	1	931.00	931.00
388	Size 305 x 457 x 32mm Thick	No	1	271.00	271.00
389	Size 305 x 610 x 32mm Thick	No	1	335.00	335.00
390	Size 305 x 762 x 32mm Thick	No	1	335.00	335.00
391	Size 305 x 915 x 32mm Thick	No	1	624.00	624.00
392	Size 381 x 1 220 x 32mm Thick	No	1	880.00	880.00
393	Size 381 x 1 524 x 32mm Thick	No	1	1,060.00	1,060.00
394	Size 381 x 1 830 x 32mm Thick	No	1	1,036.00	1,036.00
395	Size 381 x 2 032 x 32mm Thick	No	1	1,141.00	1,141.00
396	Size 381 x 457 x 32mm Thick	No	1	318.00	318.00
397	Size 381 x 610 x 32mm Thick	No	1	398.00	398.00
398	Size 381 x 762 x 32mm Thick	No	1	478.00	478.00
399	Size 610 x 915 x 32mm Thick	No	1	717.00	717.00
400	Size 406 x 2032 x 32mm Thick	No	1	1,211.00	1,211.00
401	Size 453 x 1 220 x 32mm Thick	No	1	988.00	988.00
402	Size 457 x 1 524 x 32mm Thick	No	1	1,196.00	1,196.00
403	Size 457 x 1 830 x 32mm Thick	No	1	1,226.00	1,226.00
404	Size 813 x 1 200mm High Yard Gate Slatted	No	1	120.00	120.00
405	Size 813 x 1 800mm High Yard Gate Slatted	No	1	120.00	120.00
406	Size 813 x 2 032mm High Yard Gate Slatted	No	1	120.00	120.00
407	Size 900 x 1 800mm High B Grade Yard Gate	No	1	1,910.00	1,910.00
	<u>Hollow core flush doors with veneer hung to steel/timber frames</u>				
408	Size 610 x 2 032mm High Hardboard (EE)	No	1	530.00	530.00
409	Size 610 x 2 032mm High Sapele Fibro (2CE)	No	1	1,474.00	1,474.00
	<u>Swartland Blue Door or equal Architect approved</u>				
410	Size 1 206 x 2 032mm high Cupboard Hardboard Standard Light Duty EE CBSTDLI012062	No	1	1,009.00	1,009.00
411	Size 813 x 2 032mm high Interior Hardboard Horizontal Light Duty EE HBHRZLI0	No	1	595.00	595.00

412	Size 813 x 2 032mm High Interior Embossed Deep Heavy Duty Canterbury (EE EBCTBHS0)	No	1	2,163.00	2,163.00
413	Size 813 x 2 032mm High Interior Embossed Deep Heavy Duty Elegance (EE EBELGHS0)	No	1	2,290.00	2,290.00
414	Size 813 x 2 032mm High Interior Embossed Deep Light Duty Canterbury (EE EBCTBLI0)	No	1	860.00	860.00
415	Size 762 x 2 032mm High Interior Embossed Deep Light Duty Colonist (EE EBCLNLI0762)	No	1	860.00	860.00
416	Size 813 x 2 032mm High Interior Embossed Deep Light Duty Elegance (EE EBELGLI0)	No	1	1,072.00	1,072.00
417	Size 813 x 2 032mm High Interior Embossed Shallow Light Duty Albany Brown (EE EBABNLI0BR)	No	1	724.00	724.00
418	Size 762 x 2 032mm High Interior Embossed Shallow Light Duty Albany White (EE EBABNLI0WH762)	No	1	842.00	842.00
419	Size 813 x 2 032mm High Interior Embossed Shallow Light Duty Regency Brown (EE EBRGCLIOBR)	No	1	724.00	724.00
420	Size 813 x 2 032mm High Interior Veneer Commercial Light Duty (1CE VNCOMLI1)	No	1	853.00	853.00
421	Size 813 x 2 032mm High Veneer Commercial Light Duty (2CE VNCOMLI2)	No	1	898.00	898.00
422	Size 813 x 2 032mm High Interior Veneer Sapele Light Duty (2CE VNSAPLI2)	No	1	1,009.00	1,009.00
	<u>Semi-solid flush doors with veneer hung to steel/timber frames</u>				
423	Size 813 x 2 032mm High Lotus Supawood or Equal Architect Approved Comprising 2 Panel Sup (020)	No	1	1,985.00	1,985.00
424	Size 813 x 2 032mm High Lotus Supawood or Equal Architect Approved Comprising 4 Panel	No	1	2,048.00	2,048.00
425	Size 813 x 2 032mm High Lotus Supawood or Equal Architect Approved Comprising 6 Panel	No	1	2,321.00	2,321.00
426	Size 813 x 2 032mm High Lotus Supawood or Equal Architect Approved with Heavy Fielding Sup 2 Panel (H/B)	No	1	4,002.00	4,002.00
427	Size 813 x 2 032mm High Lotus Supawood or Equal Architect Approved Comprising Single Panel Sup (010)	No	1	3,881.00	3,881.00
428	Size 813 x 2 032mm High Swartland Blue or Equal Architect Approved Interior Hardboard Standard Medium Duty 2CE (HBSTDMI2)	No	1	853.00	853.00
429	Size 813 x 2 032mm High Lotus Supawood or Equal Architect Approved Slatted Horizontal	No	1	1,996.00	1,996.00
430	Size 813 x 2 032mm High Sapele or Equal Architect Approved (2CE)	No	1	1,207.00	1,207.00
431	Size 813 x 2 032mm High Swartland Kayo or Equal Architect Approved Bergsun Exterior Medium Duty Aztec (EE BSAZTMS0)	No	1	1,183.00	1,183.00
432	Size 813 x 2 032mm High Swartland Kayo or Equal Architect Approved Bergsun Exterior Medium Duty Garnett Half Security (EE BSGNTMS0HS)	No	1	1,380.00	1,380.00
433	Size 813 x 2 032mm High Swartland Kayo or Equal Architect Approve Bergsun Exterior Medium Duty Quartz Half Security (EE BSQTZMS0HS)	No	1	1,463.00	1,463.00
434	Size 813 x 2 032mm High Swartland Kayo or Equal Architect Approved Bergsun Exterior Medium Duty Sapphire Full Security (EE BSSPRMS0FS)	No	1	1,556.00	1,556.00
435	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved With Interior Veneer Commercial Medium Duty (2CE VNCOMMI2)	No	1	1,130.00	1,130.00
436	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved With Interior Veneer Sapele Medium Duty (1CE VNSAPMI1)	No	1	1,074.00	1,074.00
437	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved With Interior Veneer Sapele Medium Duty 2CE (VNSAPMI2)	No	1	1,140.00	1,140.00
438	Size 813 x 2 032mm High Swartland Blue or Equal Architect Approved Comprising Interior Hardboard Standard Heavy Duty (2CE HBSTDHI2)	No	1	1,291.00	1,291.00
	<u>Solid chipcore flush doors with veneer hung to steel/timber frames</u>				
439	Size 813 x 2 032mm High Swartland Kayo or Equal Architect Approved Crafted Heavy Duty Semi Exterior Buffalo (CDBFLHS0)	No	1	3,484.00	3,484.00
440	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved Interior Veneer Commercial Heavy Duty (2CE VNCOMHI2)	No	1	1,493.00	1,493.00
441	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved Comprising Semi-Exterior Heavy Duty Pine With Royal Top Light Avoca Rose (PNRTLHSO)	No	1	2,939.00	2,939.00
442	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved Comprising Semi-Exterior Heavy Duty Pine With Victorian Four Panel (PNVFPHSO)	No	1	2,331.00	2,331.00
443	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Comprising Semi-Exterior Heavy Duty Pine With Victorian Top Light (PNVTLHSO)	No	1	2,740.00	2,740.00

	<u>Bitcon Industries fire doors with veneer or Equal Architect Approved</u>				
444	Size 813 x 2 032mm High Swartland Blue or Equal Architect Approved Comprising Fire Semi-Exterior Hardboard (EE HBSTDFS0)	No	1	1,360.00	1,360.00
445	Size 813 x 2 032mm High Swartland Winsters or Equal Architect Approved Comprising Fire Semi Exterior Bergsun Horizontal (2CE BSHRZFS2)	No	1	2,483.00	2,483.00
	<u>Swartland Folding Doors Including Sliding Gear, Ironmongery or Equal Architect Approved</u>				
446	Size 813 x 2 032mm High Comprising Fire Semi Exterior Embossed With Shallow Albany Brown (EE EBABNFS0BR)	No	1	1,422.00	1,422.00
447	Size 813 x 2 032mm High Comprising Fire Semi Exterior Embossed With Shallow Regency Brown (EE EBRGCF50BR)	No	1	1,422.00	1,422.00
448	Size 813 x 2 032mm High Comprising Fire Semi Exterior Embossed With Shallow Regency White (EE EBRGCF50WH)	No	1	1,581.00	1,581.00
449	Size 813 x 2 032mm High Comprising Fire Semi-Exterior Veneer Commercial (2CE VNCOMFS2)	No	1	1,603.00	1,603.00
450	Size 813 x 2 032mm High Comprising Fire Semi-Exterior Veneer Sapele (2CE VNSAPFS2)	No	1	1,692.00	1,692.00
451	Size 3 120 x 2 140mm High Comprising Small Pane Double Sliding WDSP (3.120)	No	1	25,697.00	25,697.00
452	Size 3 515 x 2 140mm High Comprising Small Pane Double Sliding (WDSP 3.515)	No	1	26,784.00	26,784.00
453	Size 4 115 x 2 140mm High Comprising Small Pane Double Sliding (WDSP 4.115)	No	1	28,715.00	28,715.00
454	Size 1 790 x 2 140mm High Comprising Small Pane Single Sliding Left(WSDP 1.8L)	No	1	15,603.00	15,603.00
455	Size 2 090 x 2 140mm High Comprising Small Pane Single Sliding Left (WSDP 2.1L)	No	1	17,060.00	17,060.00
456	Size 2 390 x 2 140mm High Comprising Small Pane Single Sliding Left (WSDP 2.4L)	No	1	17,500.00	17,500.00
457	Size 2 999 x 2 140mm High Comprising Small Pane Single Sliding Left (WSDP 3.0L)	No	1	19,532.00	19,532.00
458	Size 3 590 x 2 140mm High Comprising Small Pane Single Sliding Door, Left (WSDP 3.6L)	No	1	20,829.00	20,829.00
459	Size 1 790 x 2 140mm High Comprising Small Pane Single Sliding Right (WSDP 1.8R)	No	1	15,603.00	15,603.00
460	Size 2 090 x 2 140mm High Comprising Small Pane Single Sliding Door, Right (WSDP 2.1R)	No	1	17,058.00	17,058.00
461	Size 2 390 x 2 140mm High Comprising Small Pane Single, Sliding Right (WSDP 2.4R)	No	1	17,500.00	17,500.00
462	Size 2 999 x 2 140mm High Comprising Small Pane Single Sliding Right (WSDP 3.0R)	No	1	19,352.00	19,352.00
463	Size 3 590 x 2 140mm High Comprising Small Pane Single Sliding Right WSDP (3.6R)	No	1	20,829.00	20,829.00
464	Size 3 120 x 2 140mm High Comprising Full Pane Double Sliding (WSDS 3.120)	No	1	19,108.00	19,108.00
465	Size 3 515 x 2 140mm High Comprising Full Pane Double Sliding (WSDS 3.515)	No	1	20,671.00	20,671.00
466	Size 4 115 x 2 140mm High Comprising Full Pane Double Sliding (WSDS 4.115)	No	1	22,060.00	22,060.00
467	Size 1 790 x 2 140mm High Comprising Full Pane Single Sliding Left (WSD 1.8L)	No	1	11,483.00	11,483.00
468	Size 2 390 x 2 140mm High Comprising Full Pane Single Sliding Left (WSD 2.4L)	No	1	12,519.00	12,519.00
469	Size 3 590 x 2 140mm High Comprising Full Pane Single Sliding Left (WSD 3.6L)	No	1	14,701.00	14,701.00
470	Size 1 790 x 2 140mm High Comprising Full Pane Single Sliding Right(WSD 1.8R)	No	1	11,483.00	11,483.00
471	Size 2 990 x 2 140mm High Comprising Full Pane Single Sliding Right (WSD 3.0R)	No	1	13,841.00	13,841.00
472	Size 3 590 x 2 140mm High Comprising Full Pane Single Sliding Right (WSD 3.6R)	No	1	14,757.00	14,757.00
473	Size 3 120 x 2 140mm High Full Pane Double Sliding (CDSL3.120)	No	1	40,301.00	40,301.00
474	Size 3 515 x 2 140mm High Full Pane Double Sliding (CDSL3.515)	No	1	42,272.00	42,272.00
475	Size 1 800 x 2 140mm High Full Pane Single Sliding Left (CSDL 1.8L)	No	1	22,731.00	22,731.00
476	Size 2 100 x 2 140mm High Full Pane Single Sliding Left (CSDL 2.1L)	No	1	23,278.00	23,278.00
477	Size 2 400 x 2 140mm High Full Pane Single Sliding Left (CSDL 2.4L)	No	1	23,912.00	23,912.00
478	Size 3 000 x 2 140mm High Full Pane Single Sliding Left (CSDL 3.0L)	No	1	25,066.00	25,066.00
479	Size 3 600 x 2 140mm High Full Pane Single Sliding Left (CSDL 3.6L)	No	1	26,550.00	26,550.00
480	Size 1 800 x 2 140mm High Full Pane Single Sliding Right (CSDL 1.8R)	No	1	22,732.00	22,732.00

481	Size 2 100 x 2 140mm High Full Pane Single Sliding Right(CSDL 2.1R)	No	1	23,278.00	23,278.00
482	Size 2 400 x 2 140mm High Full Pane Single Sliding Right (CSDL 2.4R)	No	1	23,912.00	23,912.00
483	Size 3 120 x 2 140mm High Comprising Small Pane Double Sliding CDSPL3.120)	No	1	43,833.00	43,833.00
484	Size 3 515 x 2 140mm High Comprising Small Pane Double Sliding (CDSPL3.515)	No	1	45,038.00	45,038.00
485	Size 4 115 x 2 140mm High Small Pane Double Sliding Door (CDSPL4.115)	No	1	47,447.00	47,447.00
486	Size 1 800 x 2 140mm High Small Pane Single Sliding Left (CSDPL 1.8L)	No	1	24,824.00	24,824.00
487	Size 2 100 x 2 140mm High Small Pane Single Sliding Left (CSDPL 2.1L)	No	1	25,603.00	25,603.00
488	Size 2 400 x 2 140mm High Small Pane Single Sliding Left (CSDPL 2.4L)	No	1	26,376.00	26,376.00
489	Size 3 000 x 2 140mm High Small Pane Single Sliding Left (CSDPL 3.0L)	No	1	28,036.00	28,036.00
490	Size 3 600 x 2 140mm High Small Pane Single Sliding Left (CSDPL 3.6L)	No	1	30,378.00	30,378.00
491	Size 1 800 x 2 140mm HighSmall Pane Single Sliding Right (CSDPL 1.8R)	No	1	24,824.00	24,824.00
492	Size 2 100 x 2 140mm High Small Pane Single Sliding Right (CSDPL 2.1R)	No	1	25,603.00	25,603.00
493	Size 2 400 x 2 140mm High Small Pane Single Sliding Right (CSDPL 2.4R)	No	1	26,376.00	26,376.00
494	Size 3 000 x 2 140mm High Small Pane Single Sliding Right (CSDPL 3.0R)	No	1	28,036.00	28,036.00
495	Size 3 600 x 2 140mm High Small Pane Single Sliding Right (CSDPL 3.6R)	No	1	30,378.00	30,378.00
496	Size 2 570 x 2 120mm High Comprising 3 x PD11 Happy, Open to the Left (FAS3PD11L)	No	1	26,785.00	26,785.00
497	Size 2 570 x 2 120mm High Comprising 3 x PD11 Happy, Open to the Right (FAS3PD11R)	No	1	26,785.00	26,785.00
498	Size 1 955 x 2 120mm High Comprising 3 x PD3 611mm Wide Leaf Full Glass, Open to the Left (FAS3PD3/611L)	No	1	23,034.00	23,034.00
499	Size 2 570 x 2 120mm High Comprising 3 x PD3 Full Glass, Open to the Left (FAS3PD3L)	No	1	23,043.00	23,043.00
500	Size 2 570 x 2 120mm High Comprising 3 x PD4 Small Pane Glass, Open to the Left (FAS3PD4L)	No	1	25,748.00	25,748.00
501	Size 2 570 x 2 120mm High Comprising 3 x PD6 2 Pane Glass, Open to the Left (FAS3PD6L)	No	1	23,564.00	23,564.00
502	Size 3 380 x 2 120mm High Comprising 4 x PD11 Happy, Open to the Left (FAS4PD11L)	No	1	32,290.00	32,290.00
503	Size 3 380 x 2 120mm High Comprising 4 x PD3 Full Glass, Open to the Left (FAS4PD3L)	No	1	27,955.00	27,955.00
504	Size 3 380 x 2 120mm High Comprising 4 x PD4 Small Pane Glass, Open to the Left (FAS4PD4L)	No	1	31,183.00	31,183.00
505	Size 3 380 x 2 120mm High Comprising 4 x PD6 2 Pane Glass, Open to the Left (FAS4PD6L)	No	1	28,544.00	28,544.00
506	Size 4 190 x 2 120mm High Comprising 5 x PD11 Happy, Open to the Left (FAS5PD11L)	No	1	42,584.00	42,584.00
507	Size 3 165 x 2 120mm High Comprising 5 x PD12 611mm Wide Leaf Happy Full Glass Top, Open to the Left (FAS5PD12/611L)	No	1	42,569.00	42,569.00
508	Size 4 190 x 2 120mm High Comprising 5 x PD12 Happy Full Glass Top, Open to the Left (FAS5PD12L)	No	1	42,584.00	42,584.00
509	Size 3 165 x 2 120mm High Comprising, 5 x PD3 611mm Wide Leaf Full Glass, Open to the Left (FAS5PD3/611L)	No	1	36,634.00	36,634.00
510	Size 4 190 x 2 120mm High Comprising 5 x PD3 Full Glass, Open to the Left (FAS5PD3L)	No	1	36,649.00	36,649.00
511	Size 4 190 x 2 120mm High Comprising 5 x PD4 Small Pane Glass, Open to the Left (FAS5PD4L)	No	1	40,953.00	40,953.00
512	Size 4 190 x 2 120mm High Comprising 5 x PD6 2 Pane Glass, Open to the Left (FAS5PD6L)	No	1	37,483.00	37,483.00
513	Size 3 165 x 2 120mm High Comprising 5 x PD6 611mm Wide Leaf With 2 Pane Glass, Open to the Left (FAS5PD6/611L)	No	1	37,468.00	37,468.00
514	Size 4 995 x 2 120mm High Comprising 6 x PD11 Happy, Open from the Centre (FAS6PD11C)	No	1	48,089.00	48,089.00
515	Size 4 995 x 2 120mm High Comprising, 6 x PD3 Full Glass, Open from the Centre (FAS6PD3C)	No	1	41,044.00	41,044.00
516	Size 4 995 x 2 120mm High Comprising 6 x PD3 Full Glass, Open to the Left (FAS6PD3L)	No	1	41,044.00	41,044.00
517	Size 4 995 x 2 120mm High Comprising 6 x PD6 2 Pane Glass, Open from the Centre (FAS6PD6C)	No	1	42,433.00	42,433.00
518	Timber Garage Door Double - Overhead Sectional (Tension System)	No	1	360.00	360.00
519	Timber Garage Door Single - Overhead Sectional (Tension System)	No	1	240.00	240.00
WINDOWS					
Swartland Cape Culture Cape Dutch windows or equal Architect approved					

520	Size 794 x 900mm (Small Pane) Mock Sash (SMS1.5 CD)	No	1	4,920.00	4,920.00
521	Size 898 x 1 300mm (Small Pane) Mock Sash Window (SMS2 CD)	No	1	5,660.00	5,660.00
522	Size 1 590 x 895mm High (Small Pane) Mock Sash Window (SMS2.5 CD)	No	1	9,635.00	9,635.00
523	Size 1 095 x 1 550mm High (Small Pane) Mock Sash Window SMS3 CD	No	1	6,250.00	6,250.00
524	Size 1 095 x 1 750mm high (Small Pane) Mock Sash Window SMS4 CD	No	1	6,638.00	6,638.00
525	Size 1 245 x 1 750mm high (Small Pane) Mock Sash Window SMS5 CD	No	1	7,030.00	7,030.00
526	Size 1 245 x 2 000mm high (Small Pane) Mock Sash Window SMS6 CD	No	1	7,599.00	7,599.00
527	Size 595 x 1 750mm high (Small Pane) Mock Sash Window SMS7 CD	No	1	5,725.00	5,725.00
528	Size 595 x 1 200mm high (Small Pane) Mock Sash Window SMS8 CD	No	1	186.00	186.00
529	Size 716 x 1 155mm high (Small Pane) Mock Sash Window STMS1 CD	No	1	3,697.00	3,697.00
530	Size 716 x 870mm high (Small Pane) Mock Sash Window STMS1.5 CD	No	1	3,373.00	3,373.00
531	Size 822 x 1 260mm high (Small Pane) Mock Sash Window STMS2 CD	No	1	3,909.00	3,909.00
532	Size 1 440 x 870mm high (Small Pane) Mock Sash Window STMS2.5 CD	No	1	6,100.00	6,100.00
533	Size 1 018 x 1 505mm high (Small Pane) Mock Sash Window STMS3 CD	No	1	4,342.00	4,342.00
534	Size 1 018 x 1 712mm high (Small Pane) Mock Sash Window STMS4 CD	No	1	4,661.00	4,661.00
535	Size 1 168 x 1 712mm high (Small Pane) Mock Sash Window STMS5 CD	No	1	4,886.00	4,886.00
536	Size 1 168 x 1 960mm high (Small Pane) Mock Sash Window STMS6 CD	No	1	5,062.00	5,062.00
537	Size 520 x 1 712 (Small Pane) Mock Sash Window STMS7 CD	No	1	4,322.00	4,322.00
538	Size 520 x 1 155mm high (Small Pane) Mock Sash Window STMS8 CD	No	1	185.00	185.00
539	Size 716 x 1 155mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS1 CD BS	No	1	3,887.00	3,887.00
540	Size 716 x 870mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS1.5 CD BS	No	1	3,445.00	3,445.00
541	Size 822 x 1 260mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS2 CD BS	No	1	4,117.00	4,117.00
542	Size 1 440 x 870mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS2.5 CD BS	No	1	6,243.00	6,243.00
543	Size 1 018 x 1 505mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS3 CD BS	No	1	4,578.00	4,578.00
544	Size 1 018 x 1 712mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS4 CD BS	No	1	4,910.00	4,910.00
545	Size 1 168 x 1 712mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS5 CD BS	No	1	5,178.00	5,178.00
546	Size 1 168 x 1 960mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS6 CD BS	No	1	5,494.00	5,494.00
547	Size 520 x 1 712mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS7 CD BS	No	1	4,425.00	4,425.00
548	Size 520 x 1 155mm high (Small Pane) Mock Sash Window with small pane burglar bars STMS8 CD BS	No	1	185.00	185.00
549	Size 803 x 1 202mm high (Small Pane), Vertical Sliding Opener SS1 CD	No	1	7,391.00	7,391.00
550	Size 803 x 902mm high (Small Pane), Vertical Sliding Opener SS1.5 CD	No	1	6,875.00	6,875.00
551	Size 902 x 1 300mm high (Small Pane), Vertical Sliding Opener SS2 CD	No	1	7,979.00	7,979.00
552	Size 1 606 x 902mm high (Small Pane), Vertical Sliding Opener SS2.5 CD	No	1	13,603.00	13,603.00
553	Size 1 100 x 1 550mm high (Small Pane), Vertical Sliding Opener SS3 CD	No	1	8,685.00	8,685.00
554	Size 1 105 x 1 750mm high (Small Pane), Vertical Sliding Opener SS4 CD	No	1	9,183.00	9,183.00
555	Size 1 252 x 1 750mm high (Small Pane), Vertical Sliding Opener SS5 CD	No	1	9,657.00	9,657.00
556	Size 1 252 x 2 000mm high (Small Pane), Vertical Sliding Opener SS6 CD	No	1	10,431.00	10,431.00
557	Size 607 x 1 754mm high (Small Pane), Vertical Sliding Opener SS7 CD	No	1	7,705.00	7,705.00
558	Size 607 x 1 202mm high (Small Pane), Vertical Sliding Opener SS8 CD	No	1	185.00	185.00
	<u>Swartland Cape Culture Full Glass Round Head windows or equal Architect approved</u>				
559	Size 545 x 273mm high Code SRFG1	No	1	2,171.00	2,171.00

560	Size 1 045 x 522mm high Code SRFG2	No	1	3,378.00	3,378.00
561	Size 1 545 x 522mm high Code SRFG3	No	1	4,161.00	4,161.00
<u>Swartland Cape Culture Full Pane Mock Sash Window or equal Architect approved</u>					
562	Code SMS1 FG Size 794 x 1 200mm high	No	1	4,603.00	4,603.00
563	Code SMS1.5 FG Size 794 x 900mm high	No	1	4,207.00	4,207.00
564	Code SMS2 FG Size 898 x 1 300mm high	No	1	5,040.00	5,040.00
565	Code SMS2.5 FG Size 1 590 x 895mm high	No	1	8,145.00	8,145.00
566	Code SMS3 FG Size 1 095 x 1 550mm high	No	1	5,568.00	5,568.00
567	Code SMS4 FG Size 1 095 x 1 750mm high	No	1	6,090.00	6,090.00
568	Code SMS5 FG Size 1 245 x 1 750mm high	No	1	6,578.00	6,578.00
569	Code SMS6 FG Size 1 245 x 2 000mm high	No	1	7,150.00	7,150.00
570	Code SMS7 FG Size 595 x 1 750mm high	No	1	5,144.00	5,144.00
571	Code SMS8 FG Size 595 x 1 200mm high	No	1	185.00	185.00
572	Code STMS1 FG Size 716 x 1 155mm high	No	1	3,536.00	3,536.00
573	Code STMS1.5 FG Size 716 x 870mm high	No	1	3,275.00	3,275.00
574	Code STMS2 FG Size 822 x 1 260mm high	No	1	3,743.00	3,743.00
575	Code STMS2.5 FG Size 1 440 x 870mm high	No	1	5,908.00	5,908.00
576	Code STMS3 FG Size 1 018 x 1 505mm high	No	1	4,067.00	4,067.00
577	Code STMS4 FG Size 1 018 x 1 712mm high	No	1	4,325.00	4,325.00
578	Code STMS5 FG Size 1 168 x 1 712mm high	No	1	4,568.00	4,568.00
579	Code STMS6 FG Size 1 168 x 1 960mm high	No	1	4,672.00	4,672.00
580	Code STMS7 FG Size 520 x 1 712mm high	No	1	4,049.00	4,049.00
<u>Swartland Cape Culture Full Pane Mock Sash Window with small pane burglar bars or equal Architect approved</u>					
581	Code STMS1 FG BS Size 716 x 1 155mm high	No	1	3,726.00	3,726.00
582	Code STMS1.5 FG BS Size 716 x 870mm high	No	1	3,348.00	3,348.00
583	Code STMS2 FG BS Size 822 x 1 260mm high	No	1	3,950.00	3,950.00
584	Code STMS2.5 FG BS Size 1 440 x 870mm high	No	1	6,052.00	6,052.00
585	Code STMS3 FG BS Size 1 018 x 1 505mm high	No	1	4,303.00	4,303.00
586	Code STMS4 FG BS Size 1 018 x 1 712mm high	No	1	4,573.00	4,573.00
587	Code STMS5 FG BS Size 1 168 x 1 712mm high	No	1	4,860.00	4,860.00
588	Code STMS6 FG BS Size 1 168 x 1 960mm high	No	1	5,102.00	5,102.00
589	Code STMS7 FG BS Size 520 x 1 712mm high	No	1	4,150.00	4,150.00
<u>Swartland Cape Culture Full Pane Window or equal Architect approved</u>					

590	Code SA1 F Size 545 x 1 500mm high	No	1	1,801.00	1,801.00
591	Code SA1L Size 545 x 1 500mm high	No	1	2,057.00	2,057.00
592	Code SA2FL Size 1 045 x 1 500mm high	No	1	3,254.00	3,254.00
593	Code SA2L Size 1 045 x 1 500mm high	No	1	2,677.00	2,677.00
594	Code SA22 Size 1 045 x 1 500mm high	No	1	3,401.00	3,401.00
595	Code SA3F Size 1 545 x 1 500mm high	No	1	4,532.00	4,532.00
596	Code SA3 Size 1 545 x 1 500mm high	No	1	4,024.00	4,024.00
597	Code SA4 F Size 2 045 x 1 500mm high	No	1	5,136.00	5,136.00
598	Code SA4 Size 2 045 x 1 500mm high	No	1	4,376.00	4,376.00
599	Code SA61 L Size 545 x 1 800mm high	No	1	2,690.00	2,690.00
600	Code SA62 L Size 1 045 x 1 800mm high	No	1	3,274.00	3,274.00
601	Code SA622 Size 1 045 x 1 800mm high	No	1	3,998.00	3,998.00
602	Code SA63 Size 1 545 x 1 800mm high	No	1	4,930.00	4,930.00
603	Code SA64 Size 2 045 x 1 800mm high	No	1	5,340.00	5,340.00
604	Code SB1 F Size 545 x 1 200mm high	No	1	1,634.00	1,634.00
605	Code SB1 L Size 545 x 1 200mm high	No	1	1,781.00	1,781.00
606	Code SB2 F L Size 1 045 x 1 200mm high	No	1	2,838.00	2,838.00
607	Code SB2 L Size 1 045 x 1 200mm high	No	1	2,366.00	2,366.00
608	Code SB22 Size 1 045 x 1 200mm high	No	1	2,982.00	2,982.00
609	Code SB3 F Size 1 545 x 1 200mm high	No	1	4,039.00	4,039.00
610	Code SB3 Size 1 545 x 1 200mm high	No	1	3,532.00	3,532.00
611	Code SB4 F Size 2 045 x 1 200mm high	No	1	4,588.00	4,588.00
612	Code SB4 Size 2 045 x 1 200mm high	No	1	3,827.00	3,827.00
613	Code SC1 F Size 545 x 900mm high	No	1	1,453.00	1,453.00
614	Code SC1 L Size 545 x 900mm high	No	1	1,560.00	1,560.00
615	Code SC1 R Size 545 x 900mm high	No	1	1,560.00	1,560.00
616	Code SC2 F L Size 1 045 x 900mm high	No	1	2,546.00	2,546.00
617	Code SC1 R Size 545 x 900mm high	No	1	2,546.00	2,546.00

618	Code SC2 L Size 1 045 x 900mm high	No	1	2,040.00	2,040.00
619	Code SC2 R Size 1 045 x 900mm high	No	1	2,040.00	2,040.00
620	Code SC22 Size 1 045 x 900mm high	No	1	2,580.00	2,580.00
621	Code SC3 F Size 1 545 x 900mm high	No	1	3,600.00	3,600.00
622	Code SC3 Size 1 545 x 900mm high	No	1	3,091.00	3,091.00
623	Code SC4 F Size 2 045 x 900mm high	No	1	4,152.00	4,152.00
624	Code SC4 Size 2 045 x 900mm high	No	1	3,391.00	3,391.00
<u>Swartland Cape Culture Full Pane Window with small pane burglar bars or equal Architect approved</u>					
625	Code SA1 F BS Size 545 x 1 500mm high	No	1	1,859.00	1,859.00
626	Code SA1 L BS Size 545 x 1 500mm high	No	1	2,313.00	2,313.00
627	Code SA1 R BS Size 545 x 1 500mm high	No	1	2,313.00	2,313.00
628	Code SA2 F L BS Size 1 045 x 1 500mm high	No	1	3,570.00	3,570.00
629	Code SA2 F R BS Size 1 045 x 1 500mm high	No	1	3,570.00	3,570.00
630	Code SA2 L BS Size 1 045 x 1 500mm high	No	1	2,932.00	2,932.00
631	Code SA2 R BS Size 1 045 x 1 500mm high	No	1	2,932.00	2,932.00
632	Code SA22 BS Size 1 045 x 1 500mm high	No	1	3,912.00	3,912.00
633	Code SA3 BS Size 1 545 x 1 500mm high	No	1	4,535.00	4,535.00
634	Code SA3 F BS Size 1 545 x 1 500mm high	No	1	5,103.00	5,103.00
635	Code SA4 BS Size 2 045 x 1 500mm high	No	1	4,888.00	4,888.00
636	Code SA4 F BS Size 2 045 x 1 500mm high	No	1	5,734.00	5,734.00
637	Code SA61 L BS Size 545 x 1 800mm high	No	1	2,945.00	2,945.00
638	Code SA62 L BS Size 1 045 x 1 800mm high	No	1	3,531.00	3,531.00
639	Code SA62 R BS Size 1 045 x 1 800mm high	No	1	3,531.00	3,531.00
640	Code SA622 BS Size 1 045 x 1 800mm high	No	1	4,512.00	4,512.00
641	Code SA63 BS Size 1 545 x 1 800mm high	No	1	5,443.00	5,443.00
642	Code SA64 BS Size 2 045 x 1 800mm high	No	1	5,851.00	5,851.00
643	Code SB1 F BS Size 545 x 1 200mm high	No	1	1,694.00	1,694.00
644	Code SB1 L BS Size 545 x 1 200mm high	No	1	1,983.00	1,983.00
645	Code SB1 R BS Size 545 x 1 200mm high	No	1	1,983.00	1,983.00
646	Code SB2 F L BS Size 1 045 x 1 200mm high	No	1	3,102.00	3,102.00
647	Code SB2 F R BS Size 1 045 x 1 200mm high	No	1	3,102.00	3,102.00
648	Code SB2 L BS Size 1 045 x 1 200mm high	No	1	2,569.00	2,569.00
649	Code SB2 R BS Size 1 045 x 1 200mm high	No	1	2,569.00	2,569.00
650	Code SB22 BS Size 1 045 x 1 200mm high	No	1	3,388.00	3,388.00
651	Code SB3 BS Size 1 545 x 1 200mm high	No	1	3,936.00	3,936.00
652	Code SB3 F BS Size 1 545 x 1 200mm high	No	1	4,504.00	4,504.00
653	Code SB4 BS Size 2 045 x 1 200mm high	No	1	4,234.00	4,234.00
654	Code SB4 F BS Size 2 045 x 1 200mm high	No	1	5,080.00	5,080.00
655	Code SC1 F BS Size 545 x 900mm high	No	1	1,511.00	1,511.00
656	Code SC1 L BS Size 545 x 900mm high	No	1	1,705.00	1,705.00
657	Code SC2 F L BS Size 1 045 x 900mm high	No	1	2,751.00	2,751.00
658	Code SC2 F R BS Size 1 045 x 900mm high	No	1	2,751.00	2,751.00

659	Code SC2 L BS Size 1 045 x 900mm high	No	1	2,185.00	2,185.00
660	Code SC2 R BS Size 1 045 x 900mm high	No	1	2,185.00	2,185.00
661	Code SC22 BS Size 1 045 x 900mm high	No	1	2,873.00	2,873.00
662	Code SC3 BS Size 1 545 x 900mm high	No	1	3,384.00	3,384.00
663	Code SC3 F BS Size 1 545 x 900mm high	No	1	3,949.00	3,949.00
664	Code SC4 BS Size 2 045 x 900mm high	No	1	3,682.00	3,682.00
665	Code SC4 F BS Size 2 045 x 900mm high	No	1	4,530.00	4,530.00
<u>Swartland Cape Culture Full Pane, Vertical Sliding Opener window or equal Architect approved</u>					
666	Code SS1 FG Size 803 x 1 202mm high	No	1	6,761.00	6,761.00
667	Code SS1.5 FG Size 803 x 902mm high	No	1	6,263.00	6,263.00
668	Code SS2 FG Size 902 x 1 300mm high	No	1	7,276.00	7,276.00
669	Code SS2.5 FG Size 1 606 x 902mm high	No	1	12,350.00	12,350.00
670	Code SS3 FG Size 1 100 x 1 550mm high	No	1	7,927.00	7,927.00
671	Code SS4 FG Size 1 105 x 1 750mm high	No	1	8,395.00	8,395.00
672	Code SS5 FG Size 1 252 x 1 750mm high	No	1	8,837.00	8,837.00
673	Code SS6 FG Size 1 252 x 2 000mm high	No	1	9,556.00	9,556.00
674	Code SS7 FG Size 607 x 1 754mm high	No	1	6,463.00	6,463.00
675	Code SS8 FG Size 607 x 1 202mm high	No	1	185.00	185.00
<u>Swartland Cape Culture Horizontal Gliding Window or equal Architect approved</u>					
676	Code SGW 1212 L Size 1 200 x 1 200mm high	No	1	6,837.00	6,837.00
677	Code SGW 1212 R Size 1 200 x 1 200mm high	No	1	6,837.00	6,837.00
678	Code SGW 1215 L Size 1 200 x 1 500mm high	No	1	7,454.00	7,454.00
679	Code SGW 1215 R Size 1 200 x 1 500mm high	No	1	7,454.00	7,454.00
680	Code SGW 1290 L Size 1 200 x 900mm high	No	1	6,238.00	6,238.00
681	Code SGW 1290 R Size 1 200 x 900mm high	No	1	6,238.00	6,238.00
682	Code SGW 1512 L Size 1 500 x 1 200mm high	No	1	7,384.00	7,384.00
683	Code SGW 1512 R Size 1 500 x 1 200mm high	No	1	7,384.00	7,384.00
684	Code SGW 1515 L Size 1 500 x 1 500mm high	No	1	7,946.00	7,946.00
685	Code SGW 1515 R Size 1 500 x 1 500mm high	No	1	7,946.00	7,946.00
686	Code SGW 1590 L Size 1 500 x 900mm high	No	1	6,796.00	6,796.00
687	Code SGW 1590 R Size 1 500 x 900mm high	No	1	6,796.00	6,796.00
688	Code SGW 1812 L Size 1 800 x 1 200mm high	No	1	7,768.00	7,768.00
689	Code SGW 1812 R Size 1 800 x 1 200mm high	No	1	7,758.00	7,758.00
690	Code SGW 1815 L Size 1 800 x 1 500mm high	No	1	8,487.00	8,487.00
691	Code SGW 1815 R Size 1 800 x 1 500mm high	No	1	8,487.00	8,487.00
692	Code SGW 1890 L Size 1 800 x 900mm high	No	1	7,188.00	7,188.00
693	Code SGW 1890 R Size 1 800 x 900mm high	No	1	7,188.00	7,188.00
694	Code SGW 2112 L Size 2 100 x 1 200mm high	No	1	8,328.00	8,328.00
695	Code SGW 2112 R Size 2 100 x 1 200mm high	No	1	8,328.00	8,328.00
696	Code SGW 2115 L Size 2 100 x 1 500mm high	No	1	8,939.00	8,939.00
697	Code SGW 2115 R Size 2 100 x 1 500mm high	No	1	8,939.00	8,939.00

698	Code SGW 2190 L Size 2 100 x 900mm high	No	1	7,762.00	7,762.00
699	Code SGW 2190 R Size 2 100 x 900mm high	No	1	7,762.00	7,762.00
	<u>Swartland Cape Culture Round Head Window with Sunrays or equal Architect approved</u>				
700	Code SRSP1 Size 545 x 273mm high	No	1	4,143.00	4,143.00
701	Code SRSP2 Size 1 045 x 522mm high	No	1	5,149.00	5,149.00
702	Code SRSP3 Size 1 545 x 522mm high	No	1	6,760.00	6,760.00
	<u>Swartland Cape Culture Small Pane Window or equal Architect approved</u>				
703	Code SA1 FSP Size 545 x 1 500mm high	No	1	2,506.00	2,506.00
704	Code SA1 SP L Size 545 x 1 500mm high	No	1	2,506.00	2,506.00
705	Code SA1 SP R Size 545 x 1 500mm high	No	1	2,506.00	2,506.00
706	Code SA2 FSP L Size 1 045 x 1 500mm high	No	1	4,230.00	4,230.00
707	Code SA2 FSP R Size 1 045 x 1 500mm high	No	1	4,230.00	4,230.00
708	Code SA2 SP L Size 1 045 x 1 500mm high	No	1	4,122.00	4,122.00
709	Code SA2 SP R Size 1 045 x 1 500mm high	No	1	4,122.00	4,122.00
710	Code SA22 SP Size 1 045 x 1 500mm high	No	1	4,259.00	4,259.00
711	Code SA3 FSP Size 1 545 x 1 500mm high	No	1	6,118.00	6,118.00
712	Code SA3 SP Size 1 545 x 1 500mm high	No	1	5,845.00	5,845.00
713	Code SA4 FSP Size 2 045 x 1 500mm high	No	1	7,963.00	7,963.00
714	Code SA4 SP Size 2 045 x 1 500mm high	No	1	7,212.00	7,212.00
715	Code SA61 SP L Size 545 x 1 800mm high	No	1	3,077.00	3,077.00
716	Code SA61 SP R Size 545 x 1 800mm high	No	1	3,077.00	3,077.00
717	Code SA62 SP L Size 1 045 x 1 800mm high	No	1	5,277.00	5,277.00
718	Code SA62 SP R Size 1 045 x 1 800mm high	No	1	5,277.00	5,277.00
719	Code SA63 SP Size 1 545 x 1 800mm high	No	1	7,673.00	7,673.00
720	Code SA64 SP Size 2 045 x 1 800mm high	No	1	9,287.00	9,287.00
721	Code SB1 FSP Size 545 x 1 200mm high	No	1	2,281.00	2,281.00
722	Code SB1 SP L Size 545 x 1 200mm high	No	1	2,177.00	2,177.00
723	Code SB1 SP R Size 545 x 1 200mm high	No	1	2,177.00	2,177.00
724	Code SB2 FSP L Size 1 045 x 1 200mm high	No	1	3,935.00	3,935.00
725	Code SB3 FSP Size 1 545 x 1 200mm high	No	1	5,480.00	5,480.00
726	Code SB4 FSP Size 2 045 x 1 200mm high	No	1	6,899.00	6,899.00
727	Code SC1 FSP Size 545 x 900mm high	No	1	1,967.00	1,967.00
728	Code SC1 SP R Size 545 x 900mm high	No	1	1,798.00	1,798.00
729	Code SC2 FSP R Size 1 045 x 900mm high	No	1	3,315.00	3,315.00
730	Code SC2 SP L Size 1 045 x 900mm high	No	1	2,972.00	2,972.00
731	Code SC22 SP Size 1 045 x 900mm high	No	1	3,109.00	3,109.00
732	Code SC3 FSP Size 1 545 x 900mm high	No	1	4,591.00	4,591.00
733	Code SC4 SP Size 2 045 x 900mm high	No	1	5,142.00	5,142.00
734	Code SD1 SP Size 545 x 600mm high	No	1	1,521.00	1,521.00
735	Code SD2 SP R Size 1 045 x 600mm high	No	1	2,349.00	2,349.00
736	Code SD22 SP Size 1 045 x 600mm high	No	1	2,516.00	2,516.00
737	Code SD3 SP Size 1 545 x 600mm high	No	1	3,416.00	3,416.00

738	Code SD4 SP Size 2 045 x 600mm high	No	1	4,148.00	4,148.00
<u>Swartland Cape Culture Small Pane Window with small pane burglar bars or equal Architect approved</u>					
739	Code SA1 FSP BS Size 545 x 1 500mm high	No	1	2,566.00	2,566.00
740	Code SA1 SP L BS Size 545 x 1 500mm high	No	1	2,764.00	2,764.00
741	Code SA2 FSP L BS Size 1 045 x 1 500mm high	No	1	4,546.00	4,546.00
742	Code SA22 SP BS Size 1 045 x 1 500mm high	No	1	4,771.00	4,771.00
743	Code SA3 FSP BS Size 1 545 x 1 500mm high	No	1	6,691.00	6,691.00
744	Code SA4 FSP BS Size 2 045 x 1 500mm high	No	1	8,562.00	8,562.00
745	Code SA4 SP BS Size 2 045 x 1 500mm high	No	1	7,724.00	7,724.00
746	Code SA61 SP R BS Size 545 x 1 800mm high	No	1	3,393.00	3,393.00
747	Code SA62 SP R BS Size 1 045 x 1 800mm high	No	1	5,532.00	5,532.00
748	Code SA622 SP BS Size 1 045 x 1 800mm high	No	1	5,997.00	5,997.00
749	Code SA63 SP BS Size 1 545 x 1 800mm high	No	1	8,186.00	8,186.00
750	Code SA64 SP BS Size 2 045 x 1 800mm high	No	1	9,800.00	9,800.00
751	Code SB1 FSP BS Size 545 x 1 200mm high	No	1	2,341.00	2,341.00
752	Code SB1 SP R BS Size 545 x 1 200mm high	No	1	2,380.00	2,380.00
753	Code SB2 FSP R BS Size 1 045 x 1 200mm high	No	1	4,199.00	4,199.00
754	Code SB2 SP R BS Size 1 045 x 1 200mm high	No	1	3,552.00	3,552.00
755	Code SB22 SP BS Size 1 045 x 1 200mm high	No	1	4,097.00	4,097.00
756	Code SB3 FSP BS Size 1 545 x 1 200mm high	No	1	4,947.00	4,947.00
757	Code SB3 SP BS Size 1 545 x 1 200mm high	No	1	5,203.00	5,203.00
758	Code SB4 FSP BS Size 2 045 x 1 200mm high	No	1	7,391.00	7,391.00
759	Code SB4 SP BS Size 2 045 x 1 200mm high	No	1	6,376.00	6,376.00
760	Code SC1 FSP BS Size 545 x 900mm high	No	1	2,025.00	2,025.00
761	Code SC1 SP R BS Size 545 x 900mm high	No	1	1,943.00	1,943.00
762	Code SC2 FSP R BS Size 1 045 x 900mm high	No	1	3,520.00	3,520.00
763	Code SC2 SP R BS Size 1 045 x 900mm high	No	1	3,117.00	3,117.00
764	Code SC22 SP BS Size 1 045 x 900mm high	No	1	3,400.00	3,400.00
765	Code SC3 FSP BS Size 1 545 x 900mm high	No	1	4,974.00	4,974.00
766	Code SC3 SP BS Size 1 545 x 900mm high	No	1	4,505.00	4,505.00
767	Code SC4 FSP BS Size 2 045 x 900mm high	No	1	6,653.00	6,653.00
768	Code SC4 SP BS Size 2 045 x 900mm high	No	1	5,433.00	5,433.00
769	Code SD1 SP BS Size 545 x 600mm high	No	1	1,608.00	1,608.00
770	Code SD2 SP L BS Size 1 045 x 600mm high	No	1	2,436.00	2,436.00
771	Code SD2 SP R BS Size 1 045 x 600mm high	No	1	2,436.00	2,436.00
772	Code SD22 SP BS Size 1 045 x 600mm high	No	1	2,694.00	2,694.00
773	Code SD3 SP BS Size 1 545 x 600mm high	No	1	3,593.00	3,593.00
774	Code SD4 SP BS Size 2 045 x 600mm high	No	1	4,324.00	4,324.00
<u>Swartland Cape Culture Top Hung Window or equal Architect approved</u>					
775	Code SD1 V Size 900 x 600mm high	No	1	1,598.00	1,598.00
776	Code SD1 Size 545 x 600mm high	No	1	1,304.00	1,304.00

777	Code SD2 L Size 1 045 x 600mm high	No	1	1,706.00	1,706.00
778	Code SD2 V L Size 1 755 x 600mm high	No	1	2,189.00	2,189.00
779	Code SD22 Size 1 045 x 600mm high	No	1	2,179.00	2,179.00
780	Code SD3 Size 1 545 x 600mm high	No	1	2,620.00	2,620.00
781	Code SD4 Size 2 045 x 600mm high	No	1	2,879.00	2,879.00
782	Code SE1 Size 545 x 900mm high	No	1	1,630.00	1,630.00
783	Code SE2 R Size 1 045 x 900mm high	No	1	2,147.00	2,147.00
784	Code SE2 V R Size 1 755 x 900mm high	No	1	2,699.00	2,699.00
785	Code SE3 R Size 1 545 x 900mm high	No	1	2,407.00	2,407.00
786	Code SE4 Size 2 045 x 900mm high	No	1	3,790.00	3,790.00
787	Code SF1 V Size 900 x 1 155mm high	No	1	2,185.00	2,185.00
788	Code SF2 R Size 1 045 x 1 155mm high	No	1	2,799.00	2,799.00
789	Code SF2 V R Size 1 755 x 1 155mm high	No	1	2,942.00	2,942.00
790	Code SF2 VV R Size 1 755 x 1 155mm high	No	1	3,462.00	3,462.00
791	Code SF3 L Size 1 545 x 1 155mm high	No	1	3,136.00	3,136.00
792	Code SF4 Size 2 045 x 1 155mm high	No	1	5,167.00	5,167.00
793	Code SG1 VV Size 900 x 1 710mm high	No	1	3,247.00	3,247.00
794	Code SG1 Size 545 x 1 500mm high	No	1	2,597.00	2,597.00
795	Code SG2 L Size 1 045 x 1 500mm high	No	1	3,454.00	3,454.00
796	Code SG2 VV L Size 1 755 x 1 710mm high	No	1	4,279.00	4,279.00
797	Code SG3 L Size 1 545 x 1 500mm high	No	1	3,480.00	3,480.00
798	Code SG4 Size 2 045 x 1 500mm high	No	1	5,752.00	5,752.00
799	Code SH1 VV Size 900 x 2 100mm high	No	1	3,749.00	3,749.00
800	Code SH1 Size 545 x 2100mm high	No	1	3,019.00	3,019.00
801	Code SH2 R Size 1 045 x 2 100mm high	No	1	3,714.00	3,714.00
802	Code SH2 VV R Size 1 755 x 2 100mm high	No	1	5,049.00	5,049.00
803	Code SH3 R Size 1 545 x 2 100mm high	No	1	4,105.00	4,105.00
804	Code SH4 Size 2 045 x 2 100mm high	No	1	6,317.00	6,317.00
805	Code SMA9 Size 900 x 1 500mm high	No	1	2,384.00	2,384.00
806	Code SMC12 Size 1 200 x 900mm high	No	1	2,042.00	2,042.00
807	Code SMC9 Size 900 x 900mm high	No	1	1,782.00	1,782.00
808	Code SMJ12 Size 1 200 x 1 710mm high	No	1	2,825.00	2,825.00
<u>Swartland Cape Culture Top Hung Window with Vertical Bar or equal Architect approved</u>					
809	Code SMA9 VB Size 900 x 1 500mm high	No	1	2,494.00	2,494.00
810	Code SMC12 VB Size 1 200 x 900mm high	No	1	2,112.00	2,112.00
811	Code SMC9 VB Size 900 x 900mm high	No	1	1,925.00	1,925.00
812	Code SMJ12 VB Size 1 200 x 1 710mm high	No	1	2,970.00	2,970.00
<u>Swartland Cape Culture Victorian (Four Pane) Mock Sash Window or equal Architect approved</u>					
813	Size 794 x 1 200mm high (SMS1 VIC)	No	1	4,603.00	4,603.00
814	Size 794 x 900mm high (SMS1.5 VIC)	No	1	4,207.00	4,207.00
815	Size 898 x 1 300mm high (SMS2 VIC)	No	1	5,040.00	5,040.00
816	Size 1 590 x 895mm high (SMS2.5 VIC)	No	1	1,843.00	1,843.00

817	Size 1 095 x 1 550mm high (SMS3 VIC)	No	1	5,568.00	5,568.00
818	Size 1 095 x 1 750mm high (SMS4 VIC)	No	1	6,090.00	6,090.00
819	Size 1 245 x 1 750mm high (SMS5 VIC)	No	1	6,578.00	6,578.00
820	Size 1 245 x 2 000mm high (SMS6 VIC)	No	1	7,150.00	7,150.00
821	Size 595 x 1 750mm high (SMS7 VIC)	No	1	5,143.00	5,143.00
822	Size 595 x 1 200mm high (SMS8 VIC)	No	1	186.00	186.00
823	Size 716 x 1 155mm high (STMS1 VIC)	No	1	3,536.00	3,536.00
824	Size 716 x 870mm high (STMS1.5 VIC)	No	1	3,275.00	3,275.00
825	Size 822 x 1 260mm high (STMS2 VIC)	No	1	3,743.00	3,743.00
826	Size 1 440 x 870mm high (STMS2.5 VIC)	No	1	5,908.00	5,908.00
827	Size 1 168 x 1 712mm high (STMS5 VIC)	No	1	4,568.00	4,568.00
828	Size 1 168 x 1 960mm high (STMS6 VIC)	No	1	4,672.00	4,672.00
<u>Swartland Cape Culture Victorian (Four Pane) Mock Sash Window with small pane burglar bars or equal Architect approved</u>					
829	Size 822 x 1 260mm high (STMS2 VIC BS)	No	1	3,950.00	3,950.00
830	Size 1 440 x 870mm high (STMS2.5 VIC BS)	No	1	6,051.00	6,051.00
831	Size 1 018 x 1 505mm high (STMS3 VIC BS)	No	1	4,303.00	4,303.00
832	Size 1 018 x 1 712mm high (STMS4 VIC BS)	No	1	4,573.00	4,573.00
833	Size 1 168 x 1 712mm high (STMS5 VIC BS)	No	1	4,860.00	4,860.00
834	Size 1 168 x 1 960mm high (STMS6 VIC BS)	No	1	5,102.00	5,102.00
<u>Swartland Cape Culture Victorian (Four Pane), Vertical Sliding Opener window or equal Architect approved</u>					
835	Size 803 x 1 202mm high (SS1 VIC)	No	1	6,761.00	6,761.00
836	Size 803 x 902mm high (SS1.5 VIC)	No	1	6,263.00	6,263.00
837	Size 902 x 1 300mm high (SS2 VIC)	No	1	7,276.00	7,276.00
838	Size 1 606 x 902mm high (SS2.5 VIC)	No	1	12,350.00	12,350.00
839	Size 1 100 x 1 550mm high (SS3 VIC)	No	1	7,927.00	7,927.00
840	Size 1 105 x 1 750mm high (SS4 VIC)	No	1	8,395.00	8,395.00
841	Size 1 252 x 1 750mm high (SS5 VIC)	No	1	8,837.00	8,837.00
842	Size 1 252 x 2 000mm high (SS6 VIC)	No	1	9,556.00	9,556.00
<u>Swartland Kayo Full Pane Window or equal Architect approved</u>					
843	Size 568 x 1 471mm high (KA1F)	No	1	502.00	502.00
844	Size 1 112 x 1 471mm high (KA22)	No	1	899.00	899.00
845	Size 1 656 x 1 471mm high (KA3)	No	1	1,017.00	1,017.00
846	Size 2 200 x 1 471mm high (KA4F)	No	1	1,305.00	1,305.00
847	Size 568 x 1 171mm high (KB1F)	No	1	469.00	469.00
848	Size 1 112 x 1 171mm high (KB22)	No	1	769.00	769.00
849	Size 1 656 x 1 171mm high (KB3)	No	1	907.00	907.00
850	Size 2 200 x 1 171mm high (KB4F)	No	1	1,087.00	1,087.00
851	Size 568 x 870mm high (KC1R)	No	1	450.00	450.00

852	Size 1 112 x 870mm high (KC22)	No	1	684.00	684.00
853	Size 1 656 x 870mm high (KC3F)	No	1	898.00	898.00
854	Size 2 200 x 870mm high (KC4)	No	1	843.00	843.00
855	Size 2 200 x 870mm high (KC4F)	No	1	1,022.00	1,022.00
856	Size 568 x 568mm high (KD1)	No	1	397.00	397.00
857	Size 1 112 x 568mm high (KD22)	No	1	584.00	584.00
858	Size 1 656 x 568mm high (KD3)	No	1	637.00	637.00
859	Size 2 200 x 568mm high (KD4)	No	1	739.00	739.00
860	Size 568 x 1 471mm high (KA1FSP)	No	1	713.00	713.00
861	Size 1 112 x 1 471mm high (KA2FSPL)	No	1	1,113.00	1,113.00
862	Size 1 656 x 1 471mm high (KA3FSP)	No	1	1,516.00	1,516.00
863	Size 2 200 x 1 471mm high (KA4FSP)	No	1	2,005.00	2,005.00
864	Size 568 x 1 171mm high (KB1FSP)	No	1	695.00	695.00
865	Size 2 200 x 1 471mm high (KA4SP)	No	1	629.00	629.00
866	Size 1 656 x 1 171mm high (KB3FSP)	No	1	1,211.00	1,211.00
<u>TIMBER DOOR FRAMES, WINDOW FRAMES ETC</u>					
<u>108x70mm rebated selected Red Meranti frame 19mm matching and including Red meranti quadrants to junction of frame/wall. Each frame style to have no. 4x300mm galvanised hoop iron building-in lugs per frame style and including 100x10mm dia mild steel dowels to door frame styles fixed to wall.</u>					
867	Size 813 x 2032mm High on 230mm wall.	No	1	600.00	600.00
868	Size 813 x 2032mm High on 230mm wall with and including fixed glazed fanlight as per detail on drawing no.(U841-307).	No	1	600.00	600.00
869	90 x 70mm Frame for 762 x 2032mm high door	No	1	1,937.00	1,937.00
870	90 x 70mm Frame for 813 x 2032mm high door	No	1	2,626.00	2,626.00
871	90 x 70mm Frame with Sill OI for 813 x 2032mm high door	No	1	2,165.00	2,165.00
872	90 x 70mm Frame with Sill OI for 813 x 2032mm high door	No	1	2,165.00	2,165.00
873	90 x 70mm Arched Frame with Sill OI for 813 x 2032mm high door	No	1	4,395.00	4,395.00
874	90 x 70mm Arched Frame with Sill OO for 813 x 2032mm high door	No	1	4,395.00	4,395.00
875	90 x 70mm Frame for 1210 x 2032mm high door	No	1	2,619.00	2,619.00
876	90 x 70mm Frame with Sill OI for 1210 x 2032mm high door	No	1	2,947.00	2,947.00
877	90 x 70mm Frame with Sill OO for 1210 x 2032mm high door	No	1	2,947.00	2,947.00
878	90 x 70mm Frame for 1612 x 2032mm high door	No	1	2,848.00	2,848.00
879	90 x 70mm Frame with Sill OI for 1612 x 2032mm high door	No	1	3,349.00	3,349.00
880	90 x 70mm Frame with Sill OO for 1612 x 2032mm high door	No	1	3,349.00	3,349.00
881	105 x 70mm Pivot Frame for 1200 x 2032mm high door	No	1	2,717.00	2,717.00
882	105 x 70mm Pivot Frame with Sill for 1200 x 2032mm high door	No	1	3,047.00	3,047.00
883	105 x 70mm Pivot Frame for 1500 x 2032mm high door	No	1	3,539.00	3,539.00
884	105 x 70mm Pivot Frame with Sill for 1500 x 2032mm high door	No	1	4,194.00	4,194.00
885	90 x 70mm x 2 Pane L Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	4,807.00	4,807.00
886	90 x 70mm x 2 Pane L Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	4,807.00	4,807.00
887	90 x 70mm x 2 Pane R Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	4,807.00	4,807.00
888	90 x 70mm x 2 Pane R Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	4,807.00	4,807.00

889	90 x 70mm Full Glass L Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	4,514.00	4,514.00
890	90 x 70mm Full Glass L Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	4,514.00	4,514.00
891	90 x 70mm Full Glass R Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	4,514.00	4,514.00
892	90 x 70mm Full Glass R Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	4,514.00	4,514.00
893	90 x 70mm Small Pane L Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	7,113.00	7,113.00
894	90 x 70mm Small Pane L Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	7,113.00	7,113.00
895	90 x 70mm Small Pane R Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	7,113.00	7,113.00
896	90 x 70mm Small Pane R Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	7,113.00	7,113.00
897	90 x 70mm x 2 Pane DBL Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	7,204.00	7,204.00
898	90 x 70mm x 2 Pane DBL Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	7,204.00	7,204.00
899	90 x 70mm Full Glass DBL Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	6,880.00	6,880.00
900	90 x 70mm Full Glass DBL Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	6,880.00	6,880.00
901	90 x 70mm Small Pane DBL Sidelight Frame with Sill OI for 813 x 2032mm high door	No	1	10,399.00	10,399.00
902	90 x 70mm Small Pane DBL Sidelight Frame with Sill OO for 813 x 2032mm high door	No	1	10,399.00	10,399.00
903	90 x 70mm Frame with Sill OI and Full Glass Toplight for 813 x 2032mm high door	No	1	3,384.00	3,384.00
904	90 x 70mm Frame with Sill OO and Full Glass Toplight for 813 x 2032mm high	No	1	3,384.00	3,384.00
905	90 x 70mm Frame with Sill OI and Full Glass Toplight Opener for 813 x 2032mm high door	No	1	4,271.00	4,271.00
906	90 x 70mm Frame with Sill OO and Full Glass Toplight Opener for 813 x 2032mm high door	No	1	4,271.00	4,271.00
907	90 x 70mm Frame with Sill OI and Full Glass Toplight for 1210 x 2032mm high door	No	1	4,068.00	4,068.00
908	90 x 70mm Frame with Sill OO and Full Glass Toplight for 1210 x 2032mm high door	No	1	4,068.00	4,068.00
909	90 x 70mm Frame with Sill OI and Full Glass Toplight Opener for 1210 x 2032mm high door	No	1	5,611.00	5,611.00
910	90 x 70mm Frame with Sill OO and Full Glass Toplight Opener for 1210 x 2032mm high door	No	1	5,611.00	5,611.00
911	90 x 70mm Frame with Sill OI and Full Glass Toplight for 1612 x 2032mm high door	No	1	4,563.00	4,563.00
912	90 x 70mm Frame with Sill OO and Full Glass Toplight for 1612 x 2032mm high door	No	1	4,563.00	4,563.00
913	90 x 70mm Frame with Sill OI and Full Glass Toplight Opener for 1612 x 2032mm high door	No	1	6,368.00	6,368.00
914	90 x 70mm Frame with Sill OO and Full Glass Toplight Opener for 1612 x 2032mm high door	No	1	6,368.00	6,368.00
915	90 x 70mm Frame for 813 x 2400mm high door	No	1	1,957.00	1,957.00
916	90 x 70mm Frame with Sill OI for 813 x 2400mm high door	No	1	2,973.00	2,973.00
917	90 x 70mm Frame with Sill OO for 813 x 2400mm high door	No	1	2,973.00	2,973.00
918	90 x 70mm Pivot Frame for 1200 x 2400mm high door	No	1	3,721.00	3,721.00
919	90 x 70mm Pivot Frame with Sill for 1200 x 2400mm high door	No	1	4,211.00	4,211.00
920	90 x 70mm Pivot Frame for 1500 x 2400mm high door	No	1	4,871.00	4,871.00
921	90 x 70mm Pivot Frame with Sill for 1500 x 2400mm high door	No	1	5,857.00	5,857.00

922	90 x 70mm Frame for 1210 x 2400mm high door	No	1	3,592.00	3,592.00
923	90 x 70mm Frame with Sill OI for 1210 x 2400mm high door	No	1	4,049.00	4,049.00
924	90 x 70mm Frame with Sill OO for 1210 x 2400mm high door	No	1	4,049.00	4,049.00
925	90 x 70mm Frame for 1612 x 2400mm high door	No	1	3,923.00	3,923.00
926	90 x 70mm Frame with Sill OI for 1612 x 2400mm high door	No	1	4,611.00	4,611.00
927	90 x 70mm Frame with Sill OO for 1612 x 2400mm high door	No	1	4,611.00	4,611.00
928	Frame for double door size 1500 x 2032mm on 230mm wall.	No	1	600.00	600.00
	<u>108x70mm rebated selected Red Meranti frame 19mm matching and including Red meranti quadrants to junction of frame/wall on both sides. Each frame style to have no. 4x300mm galvanised hoop iron building-in lugs per frame style and including 100x10mm dia galvanised mild steel dowels to door frame styles fixed to wall.</u>				
929	Frame for door size 813 x 2032mm on 230mm wall.	No	1	1,250.00	1,250.00
	<u>FIRE DOORS AND FRAMES</u>				
	<u>Selected Red Meranti Framed, ledged, braced and battened fire escape door with 6mm smooth tempered hardboard flush panel internally, with top rails and styles size 108x45mm, lock rail and bottom rail size 220x22mm and 22mm v-jointed Meranti T&G boarding:</u>				
930	40mm Door 813 x 2032mm high.	No	1	3,500.00	3,500.00
	<u>Internal solid core flush panel fire escape door faced with tempered smooth faced hardboard with 10mm hardwood edges and suitable for painting both sides:</u>				
931	40mm Door 813 x 2032mm high.	No	1	1,900.00	1,900.00
	<u>JOINERY SUNDRIES</u>				
	<u>Built - In Cupboards</u>				
	Built-in cupboards door comprising 1,2 mm thick double rebated pressed steel cupboard door frame size 1943 x 2553 mm including building into half brick wall and finishing with factory primer, one under coat and two coats gloss enamel paint, two semi-solid core flash panel doors size 610 x 457 mm and size 610 x 2032 mm high respectively two semi-solid core double doors size 1206 x 457 mm and size 1206 x 2032mm respectively with rebated meeting stiles, doors veneered both sides with hardboard and hardwood edge strips all round and finished with one coat primer, one under coat and two coats gloss enamel, each door fitted with Union 51745C locking cupboard catch and double doors each fitted with 100 mm brass barrel bolts with keeps in steel frame				
932		No	1	8,000.00	8,000.00
	Built in cupboard with 32mm waterproof postformed formica or equal approved with finished chipboard worktop with enhanced gloss flash (colour to be determined on site) with 22 x 22mm PAR SA Pine fixing cleat. Edging to have a bull nose finish. Knobs are to be stainless steel. Large white "screw in type" plastic angle brackets are to be fitted to correct size to support shelves. 16mm Melamine shelf conceal exposed edges with 3mm thick pvc impact edging, colour to be determined on site. 69mm meranti skirting with 19mm quadrant. 69 x 38mm PAR SA Pine spacer blocks are to be fitted.				
933		No	1	9,500.00	9,500.00
	<u>Shelving</u>				
	Shelving 350 & 700 x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 600mm centres. Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats				
934		m	1	2,800.00	2,800.00

935	Shelving 350 & 450mm x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 600mm centres. Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats	m	1	3,500.00	3,500.00
936	Shelving 350 x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 600mm centres. Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats	m	1	2,867.00	2,867.00
937	Shelving 450 x 22mm laminated SA Pine shelving on 45 x 19mm meranti ladder frames at maximum 800mm centres spaced equally on 70mm high base including 69x38mm bearers at max. 600mm centres. Surface of timber is to a smooth finish and including application of 2 coats matt polyurethane varnish, lightly sanded between coats	m	1	2,867.00	2,867.00
938	Shelving 450 & 300mm x 22mm thick laminated SA Pine shelving on 50 x 20mm standards, rails and cleats at maximum 450mm centres spaced equally on 450 x 19mm thick laminated S.A. Pine base including 69x19mm S.A. Pine bearers at max. 600mm centres. Surface of timber is to a smooth finish and including application of 3 coats matt polyurethane varnish, lightly sanded between coats	m	1	2,500.00	2,500.00
<u>FITTINGS</u>					
<u>PG Bison Worktops or equal Architect approved</u>					
939	32mm thick Formica Lifeseal Worktop in Black Slate Glaze with Delta 90° profile on 1 long edge, manufactured in accordance with SANS ISO 4586:1995 and, constructed using 600mm wide boards in accordance with the drawings.	m	1	997.00	997.00
940	32mm thick Formica Lifeseal Worktop in Black Slate Glaze with Delta 90° profile on 2 long edges, manufactured in accordance with SANS ISO 4586:1995 and, constructed using 900mm wide boards in accordance with the drawings.	m	1	1,073.00	1,073.00
941	32mm thick Formica Lifeseal Worktop in Classic Onyx Gloss with Delta 90° profile on 1 long edge, manufactured in accordance with SANS ISO 4586:1995 and, constructed using 600mm wide boards in accordance with the drawings.	m	1	774.00	774.00
942	32mm thick Formica Lifeseal Worktop in Classic Onyx Gloss with Delta 90° profile on 2 long edges, manufactured in accordance with SANS ISO 4586:1995 and, constructed using 900mm wide boards in accordance with the drawings.	m	1	850.00	850.00
943	32mm thick Formica Lifeseal Worktop in Folkstone Grey Loglare with Delta 90° profile on 1 long edge, manufactured in accordance with SANS ISO 4586:1995 and, constructed using 600mm wide boards in accordance with the drawings.	m	1	1,290.00	1,290.00
Carried to Final Summary				R	5,940,562.00

	BILL NO. 10				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	SUPPLEMENTARY PREAMBLES				
	Proprietary products in descriptions:				
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
	Descriptions:				
	Items described as nailed shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.				
	Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as bolted the bolts have been given.				
	CEILING TIMBERS, BEADS, INSULATION, ETC				
	Sawn softwood				
1	38 x 38mm Branders	m	1	40.00	40.00
2	38 x 38mm Branders, nailed	m	1	132.00	132.00
3	38 x 38mm Branders, plugged	m	1	132.00	132.00
4	38 x 114mm Ceiling joists	m	1	45.00	45.00
5	38 x 50mm Runners	m	1	30.00	30.00
6	38 x 50mm Hangers 120mm long	No	1	30.00	30.00
7	19mm Quadrant beads	m	1	120.00	120.00
	Cornice				
8	110 x 110mm Cornices, nailed	m	1	50.00	50.00
9	110 x 110mm Cornices, plugged	m	1	50.00	50.00
10	90 x 90mm Splayed cornices, nailed	m	1	125.00	125.00
11	90 x 90mm Splayed cornices, plugged	m	1	125.00	125.00
12	76 x 22mm meranti cornice notched both sides.	m	1	40.00	40.00
13	Dynamic Artistic Solutions S005 moulded polystyrene cornice (Code: DAS 005), overall size 100 x 100mm high, fixed using a JUMBO Utility adhesive, all in accordance with the manufacturer's recommendations.	m	1	62.00	62.00
14	Upper Edge moulded polystyrene cornice (Code: P75), overall size 70 x 85mm high, fixed using a JUMBO Utility adhesive, all in accordance with the manufacturer's recommendations.	m	1	50.00	50.00
15	JUMBO Cove moulded gypsum, overall size 75 x 75mm high, fixed using a JUMBO Utility adhesive, all in accordance with the manufacturer's recommendations.	m	1	180.00	180.00
16	Everite Nucornice Nu-Cornice Plain 75 polystyrene cove cornice (Code: 605-750), overall size 55 x 55mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer's recommendations.	m	1	35.00	35.00
17	Everite Nucornice Classic 110 polystyrene cove cornice (Code: 605-723), overall size 110 x 110mm high, fixed to wall and ceiling using Nucornice water-based adhesive, leaving 2mm vertical joints between sections. All vertical joints to be sealed with Nucornice adhesive prior to painting, all in accordance with the manufacturer's recommendations.	m	1	50.00	50.00
18	25 x 19mm prepainted Lafarge gypsum or equal approved standard angle cornice, fixed in accordance with manufacturer's recommendations.	m	1	25.00	25.00
19	Recessed shadowline cornice plugged.	m	1	58.00	58.00
	Ceiling Insulation				
20	50mm Thick Isotherm thermal ceiling insulation laid on top of ceiling, manufactured from thermally bonded polyester laid in accordance with manufacturer's recommendations.	m2	1	75.00	75.00

	<u>NAILED UP CEILINGS ETC</u>				
	<u>6.4mm "Rhino" or equal similar Architect approved gypsum plasterboard with H-type pressed steel jointing strips</u>				
21	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1	190.00	190.00
22	Sloping ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1	190.00	190.00
23	Vertical ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1	200.00	200.00
24	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	190.00	190.00
25	Sloping ceilings including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	200.00	200.00
26	Vertical ceilings including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	200.00	200.00
27	Vertical ceilings 500mm high including 38 x 38mm sawn softwood brander at 400mm centres	m	1	200.00	200.00
28	Circular cutting	m	1	45.00	45.00
29	Soffit of horizontal bulkhead 500mm wide, including 38 x 38mm sawn softwood brander at 400mm centres	m	1	80.00	80.00
30	Soffit and side of horizontal bulkheads, size 500 x 500mm deep, including 38 x 38mm sawn softwood brander at 400mm centres	m	1	160.00	160.00
31	Soffit and side of sloping bulkheads, size 500 x 500mm deep, including 38 x 38mm sawn softwood brander at 400mm centres	m	1	160.00	160.00
32	Soffit and side of horizontal bulkheads, size 500 x 500mm deep, including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m	1	195.00	195.00
33	Soffit and side of sloping bulkheads, size 500 x 500mm deep, including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m	1	195.00	195.00
34	Opening for sprinkler head	No	1	56.00	56.00
35	Extra over ceiling for opening for 75mm diameter downlighter	No	1	56.00	56.00
36	Extra over ceiling for opening for 100 x 50mm light fitting	No	1	75.00	75.00
37	Extra over ceiling for 600 x 1200mm opening for ventilation/air conditioning diffuser	No	1	90.00	90.00
38	Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	620.00	620.00
	<u>4mm "Everite Nutec" or equal similar Architect approved fibre-cement boards with H-type pressed steel jointing strips</u>				
39	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	426.00	426.00
40	Sloping ceilings including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	426.00	426.00
41	Vertical ceilings including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	426.00	426.00
	<u>9.5mm Taper-edge gypsum plasterboard with taped and skimmed flush joints</u>				
42	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1	385.00	385.00
43	Sloping ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1	385.00	385.00
44	Vertical ceilings including 38 x 38mm sawn softwood brander at 400mm centres	m2	1	385.00	385.00
	<u>Pre-painted "Gyptone" or equal similar Architect approved acoustic panels with bevelled edge</u>				
45	Ceilings of 2400 x 1200 x 12.5mm panels including 38 x 38mm sawn softwood brander at 400mm centres in both directions	m2	1	617.00	617.00
46	Ceilings of 2400 x 1200 x 12.5mm panels including 38 x 38mm sawn softwood brander at 400mm centres and 38 x 38mm sawn softwood cross brander at 400mm centres	m2	1	617.00	617.00
	<u>Acoustic Flush Plastered Gypsum Ceilings</u>				

47	Gyproc GypCeil 2 x 15mm 1 hour Fire Rated plastered ceiling with FireStop boards fixed print side up with 25mm Gyproc RhinoBoard Sharp Point Screws (for first layer) and 42mm Gyproc RhinoBoard Sharp Point Screws (for second layer) at 150mm centres to steel bracing at 600mm centres in one direction All joints to be covered with Gyproc Rhinotape fixed over joints (double over butt joints) and then plastered with 3mm to 6mm thick CreteStone Skim plaster, all fixed to trusses at centres with Isover 100mm thick Aerolite non-combustible light weight Glasswool thermal ceiling insulation, nominal density 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers, in accordance with the manufacturers recommendations. • Climatic zone: Zone 5 • R-value: 2,50m² K/W • Thermal conductivity: 0,04 W/m²/K SUSPENDED CEILINGS <u>1195 x 595 x 12.5mm "Rhinodex" or equal similar Architect approved ceiling tiles with vinyl finish on "Donn" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc</u>	m2	1	532.00	532.00
48	Ceilings suspended not exceeding 1m below concrete soffits	m2	1	406.00	406.00
49	Sloping ceilings suspended not exceeding 1m below concrete soffits	m2	1	406.00	406.00
50	<u>1200 x 600 x 6mm "Everite Nutec" or equal similar Architect approved ceiling panels with vinyl finish on "Donn" pre-painted exposed tee suspension system including main and cross tees, necessary hangers, grids, etc</u> Ceilings suspended not exceeding 1m below concrete soffits	m2	1	350.00	350.00
51	<u>M6 cornices to suspended ceilings</u> Aluminium pre-painted cornices plugged <u>Acoustic Fibreglass Tile Ceilings</u> Hunter Douglas Techstyle® Lay On XL acoustic ceiling system comprising 1200 x 1200 x 28,5mm thick White non-woven glass fibre honeycomb acoustic panels laid on T24 exposed T-grid system comprising main tees at 1200mm centres and cross tees at 1200mm centres. Main tees suspended by means of 19 x 0,5mm thick galvanised mild steel strap hangers at 1200mm centres. Ceiling perimeter finished with F-profile. The whole to be designed and installed by approved specialist, all in accordance with the manufacturer's recommendations or other equal Architect approved system	m	1	70.00	70.00
52	Hunter Douglas Techstyle® Lay On XL acoustic ceiling system comprising 1200 x 2400 x 28,5mm thick White non-woven glass fibre honeycomb acoustic panels laid on T24 exposed T-grid system comprising main tees at 1200mm centres and cross tees at 2400mm centres. Main tees suspended by means of 19 x 0,5mm thick galvanised mild steel strap hangers at 1200mm centres. Ceiling perimeter finished with F-profile. The whole to be designed and installed by approved specialist, all in accordance with the manufacturer's recommendations or other equal Architect approved system	m2	1	620.00	620.00
53	Hunter Douglas Techstyle® Lay On XL acoustic ceiling system comprising 1200 x 2400 x 28,5mm thick White non-woven glass fibre honeycomb acoustic panels laid on T24 exposed T-grid system comprising main tees at 1200mm centres and cross tees at 2400mm centres. Main tees suspended by means of 19 x 0,5mm thick galvanised mild steel strap hangers at 1200mm centres. Ceiling perimeter finished with F-profile. The whole to be designed and installed by approved specialist, all in accordance with the manufacturer's recommendations or other equal Architect approved system	m2	1	620.00	620.00
54	Pelican Systems Econocoust Plus Safeguarder mineral wool or equal Architect approved 1200 x 600 x 15mm thick white square edged ceiling tiles, laid on 24mm wide x 38mm high pre-painted Exposed Econogrid tee suspension system, including all necessary hangers, grids and hold down clips. Ceiling perimeter to be finished with pre-painted Econo Shadowline wall angle.	m2	1	508.00	508.00
55	Isover Politerm Blu or equal Architect approved lightweight thermal insulation mortars and thermal conductivity 0.065 - 0.1W/m.K nominal density 200-1000kg/m ³ , laid to falls and crossfalls to concrete roof decks, all in accordance with manufacturer's recommendations.	m2	1	391.00	391.00
56	<u>OWAconsult Acoustic Wood Fibre Tile Ceilings or equal Architect approved</u> Fleece covered mineral wool Canto canopy tiles, size 1024 x 1024 x 40mm thick with straight edge and white painted finish, suspended from ceiling with 1,5m metre wire suspension including all necessary gliders, hooks and attachments, all in accordance with the manufacturers recommendations.	m2	1	1,692.00	1,692.00
57	Fleece covered mineral wool Curve 2 canopy tiles, size 1100 x 910 x 40mm thick with straight edge and white painted finish, suspended from ceiling with 1,5m metre wire suspension including all necessary gliders, hooks and attachments, all in accordance with the manufacturers recommendations.	m2	1	1,692.00	1,692.00
58	Fleece covered mineral wool Selecta trigon canopy tiles, size 1200 x 1200 x 40mm thick with straight edge and white painted finish, suspended from ceiling with 1,5m metre wire suspension including all necessary gliders, hooks and attachments, all in accordance with the manufacturers recommendations.	m2	1	1,692.00	1,692.00
59	Fleece covered mineral wool Para canopy tiles, size 625 x 625 with edge 3 and white painted finish, suspended from ceiling with 1,5m metre wire suspension including all necessary gliders, hooks and attachments, all in accordance with the manufacturers recommendations.	m2	1	1,692.00	1,692.00
60	Innovative Two Step-Type Gypsum Lafarge prefabricated bulkheads (Code : PBH 2ST50) with joining and shadowline rebate, overall size 100 x 100mm high, fixed with 20 x 20mm galvanised angle plugged and screwed to wall and ceiling soffit and screw fixed to galvanised angle using 25mm drywall screws. All butt joints to be glued using Lafarge utility adhesive and prepared for decoration, all in accordance with the manufacturer's recommendations.	m	1	919.00	919.00
61	Innovative Three Step-Type Gypsum Lafarge prefabricated bulkheads (Code : PBH 3ST80) with joining and shadowline rebate, overall size 240 x 240mm high, fixed with 20 x 20mm galvanised angle plugged and screwed to wall and ceiling soffit and screw fixed to galvanised angle using 25mm drywall screws. All butt joints to be glued using Lafarge utility adhesive and prepared for decoration, all in accordance with the manufacturer's recommendations.	m	1	919.00	919.00

62	Innovative L-Type Gypsum Lafarge prefabricated bulkheads (Code : PHB LT) with joining and shadowline rebate, overall size 200 x 200mm high, fixed with 20 x 20mm galvanised angle plugged and screwed to wall and ceiling soffit and screw fixed to galvanised angle using 25mm drywall screws. All butt joints to be glued using Lafarge utility adhesive and prepared for decoration, all in accordance with the manufacturer's recommendations.	m	1	919.00	919.00
63	Innovative LU-Type Gypsum Lafarge prefabricated bulkheads (Code : PHB) with joining rebate, overall size 200 x 300mm high, fixed with 20 x 20mm galvanised angle plugged and screwed to wall and ceiling soffit and screw fixed to galvanised angle using 25mm drywall screws. All butt joints to be glued using Lafarge utility adhesive and prepared for decoration, all in accordance with the manufacturer's recommendations.	m	1	919.00	919.00
	<u>Pelican Ceiling Access Panels or equal Architect approved</u>				
64	Flushline ceiling access panel comprising 600 x 600mm White epoxy coated aluminium T-frame with 12mm pre-primed MDF lid, fitted flush to JUMBO grid ceiling, pop rivetted through stalk of T-frame into 25 x 25mm JUMBO galvanised steel angle.	No	1	703.00	703.00
65	Top Hinged ceiling access panel comprising 600 x 600mm White epoxy coated aluminium T-frame with powder coated lid, fitted flush to JUMBO branded ceiling, pop rivetted through stalk of T-frame into 38 x 25mm JUMBO steel branderling.	No	1	668.00	668.00
	<u>Lafarge Gypsum Ceiling Access Panels or equal Architect approved</u>				
66	Ceiling access panel comprising 635 x 635mm White epoxy coated aluminium T-profile with 580 x 580mm White epoxy coated steel top hinged pan as supplied by Lafarge Gypsum, fitted flush to flush plaster timber branded ceiling, screw fixed through stalk of T-profile frame into prepared ceiling structure material, all in accordance with the manufacturer's recommendations.	No	1	728.00	728.00
67	Ceiling access panel comprising 635 x 635mm White epoxy coated aluminium with 580 x 580mm White epoxy coated steel bottom hinged pan as supplied by Lafarge Gypsum, fitted flush to flush plaster steel T-suspension ceiling, pop rivetted through stalk of frame into prepared ceiling structure material, all in accordance with the manufacturer's recommendations.	No	1	728.00	728.00
	<u>Sigma Satin Ceiling and Drywall section and trims or equal Architect approved</u>				
68	White epoxy coated aluminium shadow mould 30 cornice, fixed to plastered brickwork with 5 x 25mm wall anchors at 450mm centres.	m	1	135.00	135.00
69	White epoxy coated aluminium plaster trim 30 shadowline cornice, fixed to plastered brickwork with 5 x 25mm wall anchors at 450mm centres.	m	1	135.00	135.00
70	White epoxy coated aluminium ceiling transition 15, suspended from reinforced concrete slab at 1200mm centres with 25 x 25mm galvanised mild steel angles fixed with 6 x 30mm express nails to slab and 13mm truss screws to ceiling transition.	m	1	316.00	316.00
	<u>Gypsum board flush jointed ceilings and bulkheads</u>				
71	Capco Acoustex 95% RH resistant Sand square edge prepainted White acoustic mineral fibre ceiling tiles, size 600 x 600 x 15mm thick, laid on CKM T38/24 24 x 38mm pre-painted white exposed grid system comprising main tees at 1200mm centres and CKM T38/24 24 x 38mm cross tees at 600mm centres at right angles to main tees with 600mm cross tees spaced between 1200mm cross tees at 600mm centres. Main tees suspended by means of 4mm diameter galvanised adjustable rod hangers at 1200mm centres using purlin clips. Ceiling perimeter to be finished with CKM W20/20 shadowline shadowline perimeter trim, fixed at 450mm centres using wall anchors. Ceilings to be installed by an approved specialist and in accordance with the manufacturer's recommendations or equal Architect approved system	m2	1	620.00	620.00
72	Capco Ceiltex 99% RH resistant Ripple White square edge vinylclad gypsum aluminium foil backed ceiling tiles, size 600 x 600 x 12mm thick, laid on CKM T38/15 15 x 38mm pre-painted white exposed grid system comprising main tees at 1200mm centres and CKM T38/15 15 x 38mm cross tees at 600mm centres at right angles to main tees with 600mm cross tees spaced between 1200mm cross tees at 600mm centres. Main tees suspended by means of 19 x 0,5mm thick galvanised mild steel strap hangers, fixed to bulb of main tee with wafer-tek screws at 1200mm centres using 6mm Express nails. Ceiling perimeter to be finished with CKM W20/20 shadowline shadowline perimeter trim, fixed at 450mm centres using wall anchors. Ceilings to be installed by an approved specialist and in accordance with the manufacturer's recommendations or other equal Architect approved system	m2	1	434.00	434.00
73	Pelican Systems JUMBO skimmed ceiling system with 9mm thick JUMBO plasterboard fixed at right angles using 25mm Jumbo drywall screws at 150mm centres to JUMBO grid system comprising JUMBO screw up ceiling grid including galvanised main tees at 1200mm centres and cross tees at 400mm centres, all suspended with 25 x 25mm galvanised angles not exceeding 1200mm centres. Main tees suspended at 1200mm centres by means of 25 x 25 x 0,6mm galvanised steel angle. All joints to be covered with JUMBO fiba tape and the entire surface plastered with 3mm to 6mm thick JUMBO skimming plaster, with 135mm thick Jumbo insulation, closely fitted with ends butted firmly between tie beams and laid loose on top of branderling between roof timbers or equal Architect approved system • R-value: 2.7 • Thermal conductivity: 0,16W/m²/K • Nominal density: 12kg/m³	m2	1	214.00	214.00
	<u>Gypsum board cover strip ceilings</u>				

74	Gyproc GypCeil 2 x 15mm 1 hour Fire Rated plastered ceiling with FireStop boards fixed print side up with 25mm Gyproc RhinoBoard Sharp Point Screws (for first layer) and 42mm Gyproc RhinoBoard Sharp Point Screws (for second layer) at 150mm centres to steel bracing at 600mm centres in one direction All joints to be covered with Gyproc Rhinotape fixed over joints (double over butt joints) and then plastered with 3mm to 6mm thick CreteStone Skim plaster, all fixed to trusses at centres with Isover 100mm thick Aerolite non-combustible light weight Glasswool thermal ceiling insulation, nominal density 12kg/m ³ closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers, in accordance with the manufacturers recommendations or equal Architect approved system • Climatic zone: Zone 5 • R-value: 2,50m ² K/W • Thermal conductivity: 0,04 W/m ² /K	m2	1	192.00	192.00
	<u>Pelican Systems Jumbo Gypsum board cover strip ceilings or equal Architect approved</u>				
75	Aluzinc H-strip ceiling system with 7mm thick square edge JUMBO plasterboard fixed print side up fixed at right angles using 25mm Jumbo drywall screws at 150mm centres to JUMBO steel bracing comprising JUMBO steel bracing at 400mm centres in one direction only, with H-Strip cover strips over joints with all screw heads spotted and sanded level when dry, with 50mm thick Jumbo insulation, closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers. • R-value: 1.15 • Thermal conductivity: 0,16W/m ² /K • Nominal density: 12kg/m ³	m2	1	186.00	186.00
76	Skimmed ceiling system with 8mm thick JUMBO plasterboard fixed at right angles using 25mm Jumbo drywall screws at 150mm centres to JUMBO steel bracing comprising JUMBO steel bracing at 400mm centres in one direction only. All joints to be covered with JUMBO fiba tape and the entire surface plastered with 3mm to 6mm thick JUMBO skimming plaster, with 100mm thick Jumbo insulation, closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers. • R-value: 2.2 • Thermal conductivity: 0,16W/m ² /K • Nominal density: 12kg/m ³	m2	1	205.00	205.00
77	Aluzinc H-strip ceiling system with 7mm thick square edge JUMBO plasterboard fixed print side up fixed at right angles using 25mm Jumbo drywall screws at 150mm centres to JUMBO steel bracing comprising JUMBO steel bracing at 400mm centres in one direction only, with H-Strip cover strips over joints with all screw heads spotted and sanded level when dry, with 50mm thick Jumbo insulation, closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers. • R-value: 1.15 • Thermal conductivity: 0,16W/m ² /K • Nominal density: 12kg/m ³	m2	1	186.00	186.00
78	Skimmed ceiling system with 8mm thick JUMBO plasterboard fixed at right angles using 25mm Jumbo drywall screws at 150mm centres to JUMBO grid system comprising JUMBO screw up ceiling grid including galvanised main tees at 1200mm centres and cross tees at 400mm centres, all suspended with 25 x 25mm galvanised angles not exceeding 1200mm centres. Main tees suspended at 1200mm centres by means of 25 x 25 x 0,6mm galvanised steel angle. All joints to be covered with JUMBO fiba tape and the entire surface plastered with 3mm to 6mm thick JUMBO skimming plaster, with 100mm thick Jumbo insulation, closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers. • R-value: 2.2 • Thermal conductivity: 0,16W/m ² /K • Nominal density: 12kg/m ³	m2	1	205.00	205.00
	<u>T & G Boarded Ceilings</u>				
79	Ceilings to be Isoboard® high density 32-36kg/m ³ rigid extruded polystyrene 100% closed cell insulation ceiling formed of 30mm thick x 600mm wide tongue and grooved boards, with edge-bevelled finish, tack fixed with suitable adhesive at 200mm intervals to sawn softwood bracing installed at maximum 700mm centres transversely to trusses, and edge-fixed with concealed ceiling clips screwed to timber bracing. Boards to be secured to perimeter bracing with drywall screws and washers at 300mm centres or equal Architect approved	m2	1	295.00	295.00
	<u>OWATECTA System S45 Metallic or equal similar Architect approved 600 x 600mm ceiling tiles on suspended tee including main and cross tees, necessary hangers, grids, etc.</u>				
80	Ceilings suspended not exceeding 1m below timber/steel purlins at 933mm centres (trusses at 4.8m average centres)	m2	1	680.00	680.00
81	Ceilings suspended not exceeding 300m below concrete roof.	m2	1	680.00	680.00
82	Opening for sprinkler head	No	1	90.00	90.00
83	Opening Fire detection head	No	1	90.00	90.00
84	Extra over ceiling for 600 x 600mm for trap door.	No	1	510.00	510.00
	<u>9.5mm RHINO Board RHINOCEIL or equal similar Architect approved Prestige J Flush jointed ceiling consisting of SABS approved SA Pine, Saligna or steel branders screw up the tees fixed at 500mm centres in one direction onto which 9.5mm taper-edge Rhinoboard is fixed at right angle to the branders or steel cross tees with printed side up using either 25mm starker screws for steel, 32mm galvanised clout nail or 32mm grabber screws for timber, spaced at 150mm centres. All joints to be taped and finished as per manufactures drywall instructions.</u>				
85	Ceilings suspended not exceeding 1m below timber/steel purlins at 933mm centres (trusses at 4.8m average centres)	m2	1	395.00	395.00
86	Opening for sprinkler head	No	1	90.00	90.00
87	Ceilings suspended not exceeding 300m below concrete roof.	m2	1	395.00	395.00
88	Opening Fire detection head	No	1	90.00	90.00
	<u>Rhino MR 15mm "Green Board" or equal similar Architect approved ceiling against DNN T37K steel suspension system hang to steel trusses 500mm below, with Rhino Lite plaster.</u>				

89	Ceilings suspended not exceeding 1m below timber/steel purlins at 933mm centres (trusses at 4.8m average centres)	m2	1	510.00	510.00
90	Ceilings suspended not exceeding 300m below concrete roof.	m2	1	395.00	395.00
91	Opening for sprinkler head	No	1	90.00	90.00
92	Opening Fire detection head	No	1	90.00	90.00
	<u>6mm NUTEC or equal similar Architect approved tongue & groove Board screw ceiling up for external areas, product number 060-643. Sheet to comply with SANS 9001:2008 (ISO 9001) and SABS 803, complete with everite fixing accessories and H-profile joining strips, fixed to timber frame and bradering, installed at max 400mmcentres to comply with SABS 082. All Fixing strictly in accordance with the manufacture's instructions. Holes for fixing borad to brandering to be set out evenly and must be drilled. Fix with countersunk head brass wood screw. To be painted with waterbased paint without pre treatment.</u>				
93	Ceilings suspended not exceeding 1m below timber/steel purlins at 933mm centres (trusses at 2m average centres)	m2	1	553.00	553.00
94	Ceilings suspended not exceeding 300m below concrete roof.	m2	1	510.00	510.00
	<u>"Hunter Douglas " Solid Timber Slatted Ceiling, or equal similar Architect approved. Luxalon solidwood grill slat ceiling system. Finish white hard maple stained on 4 sides, 500mm x 3300mm panelswith 50mm x 55mm x 15mm slates perpanel, with 50mm spacing between panels. Suspended with hunter douglas sendzimir galvanized black painted T-bars at max 1200mm centres with adjustable hangers and fixed to panel with dowel suspension clips. All material, installation and fixing strictly in accordance with the manufactorers specification and instruction. Wall edge trim as per hunter douglas system spec.</u>				
95	Ceilings suspended not exceeding 1m below timber/steel purlins at 933mm centres (trusses at 2m average centres)	m2	1	587.00	587.00
	<u>DROP-IN CEILINGS</u>				
	<u>OWAacoustic® Constellation Premium biologically absorbable mineral wool ceiling tiles (NRC-0.70) size 600 x 1200 x 15mm with square edge and white painted finish, laid into and including OWAconstruct® S3 fire rated exposed demountable T24 suspension system. Main tees are to be suspended at 1200mm centres by means of 19mm galvanised strap hangers, twice pop riveted to the "bulb" of the main tee. Main tees are to be cleat fixed to the perimeter trim by means of a galvanised angle cleat. The first hanger distance from the perimeter should not exceed 400mm. Owaconstruct shadowline wall angle (ref:50/15)(or OwaConstruct standard L-Trim - ref: 50G) , is to be used at the ceiling perimeter, plugged and screwed at max 250mm centres. Corner abutments should be neatly mitred. Provision needs to be made for the supply and installation of a suitable sub-grid (e.g. Burgess channel) suspended between roof trusses at 1200mm centres or less by means of galvanised angle, twice pop riveted to the burgess channel. The first sub-grid member (channel) is to be suspended 400-600mm from the ceiling perimeter. All ceilings are to be installed in strict accordance to the manufacturer's instructions. (refer Owa Installation guide 801E) together with that of SABISA (General Specification for ceilings May 2007). This system or other equal Architect approved system</u>				
96	600 X 1200 Selected Accoustic Lay-in Ceiling Tiles	m2	1	430.00	430.00
	<u>Cornice</u>				
97	20 x 20mm shadowline cornice, fixed in accordance with manufacturer's recommendations.	m	1	111.00	111.00
	<u>FIRE BARRIERS ABOVE CEILINGS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Construction</u>				
	The type and thickness of boards, the number of layers and the insulation (if necessary) is to be such as to produce the specified fire rating all in accordance with the manufacturer's recommendation Top and bottom edges, abutments, openings, etc are to be sealed to maintain the fire rating specified				
	<u>Fire barriers above ceilings with one-hour fire rating</u>				
98	Barriers 600mm high between suspended ceiling and soffit of concrete slab	m	1	1,082.00	1,082.00
99	Extra over for vertical abutment	No	1	451.00	451.00
100	Extra over for L or T-intersection	No	1	451.00	451.00
101	Cutting and fitting around not exceeding 110mm external diameter pipe including sealing	No	1	338.00	338.00
102	Cutting and fitting around 300 x 200mm air conditioning duct including sealing	No	1	338.00	338.00
	<u>DRYWALL PARTITIONING</u>				
	<u>Rhino-Drywall partition systems or equal similar Architect approved</u>				
103	Partitioning with bottom and top tracks plugged	m2	1	652.00	652.00

104	Partitioning with top and bottom tracks plugged and glazing in lieu of boarding 1.2m high at 1.5m above floor level, framed all round with "Drywall" aluminium glazing sections and divided into panels with aluminium mullions at 0.6m centres with each panel glazed with 3mm clear float glass including neoprene glazing gaskets	m2	1	1,045.00	1,045.00
105	Extra over partition for vertical abutment	No	1	475.00	475.00
106	Extra over partition for corner	No	1	451.00	451.00
107	Extra over partition for T-intersection	No	1	451.00	451.00
108	Extra over partition for fair end	No	1	440.00	440.00
109	Extra over partition for "Head Channel"	No	1	564.00	564.00
<u>Rhino-Drywall or equal similar Architect approved System steel stud partitioning with "Rhino Wallboard" on both sides</u>					
110	Partitioning with bottom and top tracks plugged	m2	1	652.00	652.00
111	Partitioning with top and bottom tracks plugged and glazing in lieu of boarding 1.2m high at 1.5m above floor level, framed all round with "Drywall" aluminium glazing sections and divided into panels with aluminium mullions at 0.6m centres with each panel glazed with 3mm clear float glass including neoprene glazing gaskets	m2	1	1,045.00	1,045.00
112	Extra over partition for T-intersection	No	1	451.00	451.00
<u>Rhinowall or equal similar Architect approved System steel stud partitioning with "Rhino Firestop Board" on both sides and fibreglass blanket between (1 hour fire rating)</u>					
113	Partitioning with bottom and top tracks plugged	m2	1	712.00	712.00
114	Partitioning with top and bottom tracks plugged and glazing in lieu of boarding 1.2m high at 1.5m above floor level, framed all round with "Drywall" aluminium glazing sections and divided into panels with aluminium mullions at 0.6m centres with each panel glazed with 3mm clear float glass including neoprene glazing gaskets	m2	1	1,086.00	1,086.00
<u>Lafarge gypsum Maclok drywall or equal similar Architect approved system consisting of stud and track system with 64mm galvanized drywall studs positioned at 600mm centers fixed into wide drywall top track and clad on both sides with 12mm thick taper edged jumbo plasterboard fixed with 25mm drywall screws at 220mm centers with 47,5kg/m3 batt insulation hung in position in cavity of partitioning. Wall starters and terminators to be finished with four legged female termination channel (Die 6160) and ceiling junctions to be finished with female recessed head (Die 6166), including all necessary trims and sections. All joints to be taped and plastered using Jumbo jointing compound and prepared for decoration all in accordance with the manufactures recommendations. (Lafarge Gypsum tel: 011 389 4500)</u>					
115	89mm Drywall Partitioning.	m2	1	970.00	970.00
<u>Extra over drywall partition for skirting:</u>					
116	70mm aluminium skirting or equal approved.	m	1	395.00	395.00
<u>Extra over drywall partition for doors:</u>					
117	44mm Hollow core timber door size 813 x 2032mm high including steel frame.	No	1	1,072.00	1,072.00
<u>Aluminium Spacewall Partitioning System made of bevel edged gypsum plasterboard sheets 1200mm wide and full height. Studs are placed at 600mm centres with ends fixed to floor and ceiling tracks. Plasterboard sheets are screwed on at 300mm centres to floors and vertical studs. Owens corning rockwool semi-rigid acoustic sound insulation - Density 80kg/m 50mm thick to be supplied and fitted by approved specialists All joints to be taped and plastered using Jumbo jointing compound and prepared for decoration all in accordance with the manufactures recommendations. This system or other equal Architect approved system</u>					
118	76mm Drywall Partitioning.	m2	1	652.00	652.00
<u>Extra over drywall partition for :</u>					
119	75mm Natural Anodised aluminium skirting or equal approved.	m	1	123.00	123.00
120	Window Size 615 x 2100mm high with intruderprufe 6.76 High penetration resistance laminated safety glass	No	1	3,641.00	3,641.00
121	Window Size 1275 x 1200mm high with intruderprufe 6.76 High penetration resistance laminated safety glass	No	1	4,315.00	4,315.00
122	44mm Hollow core timber door size 813 x 2032mm high including steel frame.	No	1	1,072.00	1,072.00
<u>Ceiling Insulation</u>					
123	50mm Thick Isotherm thermal ceiling insulation laid on top of ceiling, manufactured from thermally bonded polyester laid in accordance with manufacturer's recommendations.	m2	1	75.00	75.00
<u>DEMOUNTABLE PARTITIONS</u>					
<u>Donn Vanguard partition systems or equal Architect approved</u>					
124	Partitioning with bottom and top tracks plugged	m2	1	635.00	635.00

	<u>Demountable partitions are to be "Donn Vanguard" or equal Architect approved with an overall thickness of 76mm comprising 50mm wide galvanised steel tracks and studs with one layer of 12,7mm gypsum plasterboard in 1,2m modules on each side and flat section aluminium skirtings and recessed aluminium cornices. The panels are to be covered with wall paper wrapped around edges. Aluminium door frames and glazing sections, skirtings, cornices, etc are to be natural anodised aluminium. The partitions are to be erected in accordance with the manufacturer's instructions</u>				
125	Partitioning with bottom tracks plugged and top tracks fixed to suspended ceiling tees	m2	1	669.00	669.00
126	Partitioning with lower solid section 1,5 m high and upper section 0,6 m high glazed with 6mm clear float glass	m2	1	1,901.00	1,901.00
	<u>TOILET PARTITIONS</u>				
	<u>Vitraflex toilet partitioning or equal Architect approved with 20mm thick faced particle board bonded panels and natural anodised aluminium edging and top rails including fixing components and standard ironmongery comprising indicator bolts, coat hooks with door stops, toilet roll holders and rubber buffers</u>				
127	Toilet Partition wall	m2	1	970.00	970.00
	<u>Vitraflex toilet partitioning or equal Architect approved with 20mm thick vitreous enamelled steel sheet faced particle board bonded panels and natural anodised aluminium edging and top rails including fixing components and standard ironmongery comprising indicator bolts, coat hooks and door stops, toilet roll holders and rubber buffers</u>				
128	Toilet Partition wall	m2	1	970.00	970.00
	Carried to Final Summary			R	62,960.00

BILL NO. 11					
FLOOR COVERINGS, WALL LININGS, ETC					
PREAMBLES					
The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.					
Cleaning:					
Rates for floor covering shall include for proper cleaning on completion.					
WOODEN FLOORING					
8mm Brown Rhodesian teak mosaic wood blocks					
1	On floors	m2	1	840.00	840.00
2	On treads and risers of stepped floors	m2	1	850.00	850.00
220 x 73 x 19mm Brown Rhodesian teak wood blocks to herringbone pattern					
3	On floors	m2	1	995.00	995.00
4	On treads and risers of stepped floors	m2	1	940.00	940.00
Union Tiles solid tongue and groove bamboo flooring in Matt Light finish (code: 1TIMBAMMATLIG960), in plank size 909 x 90 x 15mm thick glued to suitably prepared sub floor with Sika T52® applied by brush or trowel all in accordance to manufacturer's recommendations. Expansion gaps from walls and any vertical structures to be maintained during installation. All expansion gaps to be concealed using Union Tiles profiles or equal Architect approved					
5	On screeded floors	m2	1	1,050.00	1,050.00
6	Nailed to pine timber battens fixed to screeded floors	m2	1	1,100.00	1,100.00
VINYL FLOORING					
2mm thick Fully flexible vinyl sheeting of specified colours laid with an approved adhesive with welded joints to approved pattern on floors.					
7	On floors in patterns.	m2	1	395.00	395.00
8	On walls, turn-ups 150mm high and 150mm on floor including 20 x 20mm cove and cap strip.	m	1	135.00	135.00
2mm thick Polyflor polish free Homogeneous vinyl floor sheeting or equal Architect approved, laid in acrylic adhesive spread with a notched trowel on suitably prepared cement screed floors with a hygrometer reading showing a moisture content of less than 70%, with joints welded with a fully flexible coloured Polyflor welding rod to provide a smooth, hygienic sealed finish and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.					
9	On floors	m2	1	475.00	475.00
2,5mm thick x 300mm x 300mm semi-flexible reinforced vinyl quartz floor tiles, or equal approved, laid to manufacturers specification to colour of Architects choice:					
10	On smooth screeded floors.	m2	1	260.00	260.00
2.5mm "Superflex" or equal Architect approved fully flexible vinyl sheeting (with welded joints)					
11	On floors	m2	1	280.00	280.00
3mm thick x 300mm x 300mm wide Floorflex semi- flexible vinyl floor tiles laid in Marley No.60 Plus acrylic adhesive spread with trowel having 1.5mm x 1.5mm x 1.5mm triangular notches at 4.00mm centres as per Architectural and Manufacturers specifications:					
12	On screeded floors	m2	1	475.00	475.00
3.7mm thick Polyflor Acoustix Gallery FX PUR Heterogeneous vinyl floor sheeting with a 0.5mm clear wear layer colour American Oak (Colour code: 6815), laid in an approved adhesive spread with a notched trowel on suitably prepared cement screed with a hygrometer reading showing a moisture content of less than 70%, with joints welded with a fully flexible coloured Polyflor welding rod to provide a smooth, hygienic sealed finish and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.					
13	On smooth screeded floors.	m2	1	545.00	545.00

	<u>FloorworX Colorflor Standard fully flexible heavy duty vinyl floor tiles 610 x 610 x 2,0mm thick in Bubblegum finish (Colour code: CFS584), manufactured in accordance with EN 649, laid in FloorworX No. 62 acrylic adhesive spread with a Vicker A24F trowel at a rate of between 5.5m² and 6.5m² per litre on suitably prepared subfloor (elsewhere specified) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg three section metal roller on completion or other equal Architect approved</u>				
14	On Floors	m2	1	305.00	305.00
	<u>FloorworX Colorflor Standard fully flexible heavy duty floor sheeting 2m wide x 2,0mm thick in Bubblegum finish (Colour code: CFS584), manufactured in accordance with EN 649, laid in FloorworX No. 62 acrylic adhesive spread with a Vicker A24F trowel at a rate of between 5.5m² and 6.5m² per litre on suitably prepared subfloor (elsewhere specified) with a hygrometer reading showing a moisture content of less than 70%, with joints welded with a fully flexible coloured 'FloorworX Welding Rod' to provide a smooth, hygienic sealed finish and rolled with 68kg three section metal roller on completion or other equal Architect approved</u>				
15	On Floors	m2	1	305.00	305.00
	<u>Non-Slip PVC sheeting 2mm thick containing safety aggregates: silicon carbide, coloured quartz, natural recycled aggregates and aluminium oxide granules, to impart enhanced slip resistance, such as polysafe hydro with set in coved skirting polyflor MC-18 applied to screed to fall with approved adhesive or equal approved before tender.</u>				
	<u>Vinyl floor sheeting in compliance with SABS 786 laid in accordance with manufacturer's specifications, pattern & colour as per flooring layout, installation / welding / adhesive as per manufacturer's specification, cleaning, sealing and maintenance as per manufacturer's specification, sample of welding joints to be approved prior to installation.</u>				
16	Floor covering to screeded floors.	m2	1	510.00	510.00
17	Turn-ups over coves and up against walls not exceeding 500mm girth	m	1	180.00	180.00
	<u>Belgotex "Davenport" heavy commercial vinyl tile (LVT) with plank size 184.15mm x 1219.2mm with 0.55mm wear layer, apply prime and 5mm tal screedmaster, all to manufacturer's specifications:</u>				
18	3mm tiling on floors	m2	1	770.00	770.00
	<u>Belgotex 'Charleston' Heavy Residential with plank, 1219.20mm x 182.88mm (L x W) with a 0.30mm wear layer, apply prime and 5mm tal screedmaster, all to manufacturer's specifications:</u>				
19	2mm tiling on floors	m2	1	695.00	695.00
	<u>Belgotex 'Hartford' Heterogeneous Heavy commercial (multi layered) vinyl sheet with a closed cell Compact Backing, supplied in 4m wide, 0.60mm wear layer, apply prime and 5mm tal screedmaster, all to manufacturer's specifications.</u>				
20	3mm tiling on floors	m2	1	840.00	840.00
	<u>Van Dyck 10-year heavy commercial Rococo Luxury vinyl floor planks colour Champagne Shadow, size 187 x 1227 x 2,5mm thick, laid in Kiesel Star100 adhesive spread with a notched trowel on suitably prepared cement screed with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations or equal Architect approved system</u>				
21	On Screeded floors	m2	1	595.00	595.00
	<u>Van Dyck 5-year light commercial Verso Luxury vinyl floor planks colour Oregon Oak-23245, size 187 x 1251 x 4,2mm thick, fixed floating with unique clic system, all in accordance with manufacturer's recommendations or equal Architect approved system</u>				
22	On Screeded floors	m2	1	778.00	778.00
	<u>Scrub with a diluted neutral detergent complying with SABS 825 and thoroughly rinse, Apply three coats of a water based floor dressing complying to SABS 1042 on:</u>				
23	Vinyl sheet flooring.	m2	1	45.00	45.00
	CARPETING				
	<u>"Florpoint 980" carpeting or equal Architect approved:</u>				
24	On Floors	m2	1	320.00	320.00
	<u>Berberpoint 920 polypropylene needle punch carpeting or equal Architect approved</u>				
25	On Floors	m2	1	360.00	360.00
	<u>Berberpoint 920 foam backed polypropylene needlepunch carpeting or equal Architect approved</u>				
26	On Floors	m2	1	360.00	360.00
	<u>500 x 500mm "Berber Point 920" carpet tiles or equal Architect approved</u>				
27	On Floors	m2	1	385.00	385.00
	<u>Belgotex Berber Heritage tufted carpeting including felt underlay etc or equal Architect approved</u>				
28	On Floors	m2	1	345.00	345.00

	<u>Nouwens Elements woven pile carpeting including felt underlay etc or equal Architect approved</u>				
29	On Floors	m2	1	375.00	375.00
	<u>4mm Needle punch Carpet tiles manufactured from 100% polypropylene and with a minimum fibre weight of 750g/sq m and a fire index of 3, all in accordance with the manufacturers recommended specification for fixing:</u>				
30	On floors.	m2	1	316.00	316.00
	<u>6mm Needle punch Carpet tiles manufactured from 100% polypropylene and with a minimum fibre weight of 750g/sq m and a fire index of 2, all in accordance with the manufacturers recommended specification for fixing:</u>				
31	On floors.	m2	1	338.00	338.00
	<u>7mm Needle punch Carpet tiles manufactured from 100% polypropylene and with a minimum fibre weight of 750g/sq m and a fire index of 2, all in accordance with the manufacturers recommended specification for fixing:</u>				
32	On floors.	m2	1	344.00	344.00
	<u>8mm thick Polypropylene Carpet Tiles, with a 5 year warranty. Spread FloorworX No. 62 acrylic adhesive on the exposed substrate using a Vicker A24F trowel at a rate of between 5.5m² and 6.5m² per litre, in accordance with SANS 1415:2005, all installed by approved installer in accordance with SANS 10186:2000 or equal Architect approved</u>				
33	On floors.	m2	1	338.00	338.00
	<u>Van Dyck Florpoint Earth Broadloom colour Bright Green heavy commercial (SABS use class U5) PFX Stain Shield Staple 3,66m wide carpet tiles, size with SABS Class 2 fire rating, fibre weight of 980g/m² and total weight of 1285g/m². Manufactured in accordance with SANS 1415:2005 laid on 50 low grab InstaLay, all installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile coverings or other equal Architect approved</u>				
34	On floors.	m2	1	344.00	344.00
	<u>Van Dyck Econorib Earth Broadloom colour Harvest heavy residential/light commercial (SABS use class U5) PFX Stain Shield Staple 3,66m wide carpet sheeting with SABS Class 2 fire rating, fibre weight of 450g/m² and total weight of 620g/m² with a 5 Year guarantee. Manufactured in accordance with SANS 1415:2005 laid on 5mm thick Eco-Lay, all installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile coverings or other equal Architect approved system</u>				
35	On floors.	m2	1	344.00	344.00
	<u>Van Dyck Wall Expressions colour OPT3 heavy residential/light commercial (SABS use class U5) Recycled and Virgin Polyester staple fibres wall tiles, size 500 x 500 x 4mm thick with SABS Class 2 fire rating, fibre weight of 600g/m² and total weight of 970g/m². Manufactured in accordance with SANS 1415:2005, all installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile coverings or other equal Architect approved system</u>				
36	On floors.	m2	1	338.00	338.00
	<u>Van Dyck Natural Choice Earth carpet sheeting, colour Cactus Medium commercial (SABS use class U4), needle punch, with SABS Class 2 fire rating, fibre weight of 700g/m² and total weight of 940g/m², with Plainback backing. Manufactured in accordance with SANS 1415:2005, laid on 5mm thick Eco-Lay all installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings, with a 10 Year limited warranty against excessive wear.</u>				
37	On floors.	m2	1	315.00	315.00
	<u>Van Dyck Powerpoint Earth 650 Enduroback carpet tiles, colour Jacaranda Medium commercial (SABS use class U4) Blend of 30% recycled material and 70% virgin PFX staple fibres, needle punch, size 500 x 500 x 7mm thick with SABS Class 3 fire rating, fibre weight of 650g/m² and total weight of 4000g/m², with Enduroback KR4® looselay backing. Manufactured in accordance with SANS 1415:2005 all installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings, with a 10 Year limited warranty against excessive wear.</u>				
38	On floors.	m2	1	305.00	305.00
	<u>Belgotex floors® Serengeti™ colour Mamba, heavy commercial (SABS location grade: 5) 100% Stainproof SDX (solution dyed nylon), Tufted Cut pile MiracleBac® woven polypropylene backed SABS Class 2 fire rating broadloom carpet sheeting with Silvercare™ protective system.</u>				
39	On floors.	m2	1	360.00	360.00
	<u>Belgotex floors® Weavers Choice™ colour Sphinx, heavy commercial (SABS location grade: 5) 100% Stainproof SDX (solution dyed nylon), Tufted loop pile MiracleBac® woven polypropylene backed SABS Class 2 fire rating broadloom carpet sheeting with Silvercare™ protective system.</u>				
40	On floors.	m2	1	395.00	395.00
	<u>Belgotex floors® Westminster™ colour Irone Stone, heavy commercial (SABS location grade: 5) 100% Stainproof SDX (solution dyed nylon), plain cut pile MiracleBac® woven polypropylene backed SABS Class 2 fire rating broadloom carpet sheeting laid on and including Orange undercushion with Silvercare™ protective system.</u>				
41	On floors.	m2	1	785.00	785.00

	<u>7mm thick Berber Point 920 Stainproof Polypropylene Structured Needle punch SABS Class 2 fire rating grade heavy commercial commercial carpet tiles, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.</u>				
42	On floors.	m2	1	375.00	375.00
	<u>7mm thick Berber Point Polypropylene Structured Needle punch medium commercial carpet tiles, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.</u>				
43	On floors.	m2	1	375.00	375.00
	<u>8,5mm thick Berber Point Polypropylene Structured Needle punch Class 2 fire rating grade heavy commercial carpet tiles, all installed by approved installer in accordance with SANS 10186:2010, the code of practice for textile floor coverings.</u>				
44	On floors.	m2	1	395.00	395.00
	RUBBER FLOORING				
	<u>2mm thick Polyflor synthetic rubber floor sheeting or equal Architect approved, laid in an approved adhesive spread with a notched trowel on suitably prepared cement screed with a hygrometer reading showing a moisture content of less than 70% with joints welded with a fully flexible coloured Polyflor welding rod to provide a smooth, hygienic sealed finish and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>				
45	On floors.	m2	1	520.00	520.00
	<u>3mm thick Polyflor Noppe Stud synthetic rubber floor tiles or equal Architect approved, laid in an approved adhesive spread with a notched trowel on suitably prepared cement screed with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>				
46	On floors.	m2	1	550.00	550.00
	<u>3,2mm thick FloorworX norament rubber floor tiles or equal Architect approved manufactured in accordance with EN 12 199, laid in FloorworX No. 55 polyurethane adhesive, spread according to manufacturer's recommendations on suitably prepared subfloor (elsewhere specified) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg three section metal roller on completion.</u>				
47	On Floors	m2	1	590.00	590.00
	<u>4mm thick Polyflor Noppe Stud synthetic rubber floor tiles or equal Architect approved, laid in an approved adhesive spread with a notched trowel on suitably prepared cement screed with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>				
48	On floors.	m2	1	620.00	620.00 0.00
	<u>3,2mm thick Polyflor Econights sheeting 1210mm wide, Single ply non-laminated sheeting, Colour 900 series, constructed of 100% recycled rubber: installed using Qualichem 209 epoxy adhesive to manufacturer's instruction or other equal Architect approved system</u>				
49	On smooth screeded floors.	m2	1	960.00	960.00
	LAMINATE FLOORING				
	<u>Kronotex Laminate Flooring System as supplied by Pelican Systems from the 8mm Dynamic Clic collection with abrasion class AC4, Commercial Class 32 and conforming to ISO 14025 in a Borneo Teak decor finish consisting of 1380 x 193mm panels with Express Clic System connection technology conforming to environmental standards class E1 laid on 3mm Aerothane over suitable sub floors with expansion joints at recommended centres installed in accordance with the manufacturer's instructions or equal Architect approved system</u>				
50	On Screeded floors	m2	1	1,240.00	1,240.00
	<u>Kronotex Laminate Flooring System as supplied by Pelican Systems from the 8mm Dynamic Clic collection with abrasion class AC4, Commercial Class 32 and conforming to ISO 14025 in a Famous Cherry decor finish consisting of 1380 x 193mm panels with Express Clic System connection technology conforming to environmental standards class E1 laid on 3mm Premilay over suitable sub floors with expansion joints at recommended centres and installed in accordance with the manufacturer's instructions or equal Architect approved system</u>				
51	On Screeded floors	m2	1	1,240.00	1,240.00
	<u>Kronotex Laminate Flooring System as supplied by Pelican Systems from the 8mm Dynamic Clic collection with abrasion class AC4, Commercial Class 32 and conforming to ISO 14025 in a Tuscany Walnut - V4 Groove decor finish consisting of 1380 x 193mm panels with Express Clic System connection technology conforming to environmental standards class E1 laid on 3mm Aerothane over suitable sub floors with expansion joints at recommended centres and installed in accordance with the manufacturer's instructions or equal Architect approved system</u>				
52	On Screeded floors	m2	1	1,240.00	1,240.00

	<u>Kronotex Dynamic high pressure laminate flooring (AC4/Class 32) in plank size 1380 x 193 x 8mm in Trend Oak Grey finish (Code: 208898-D3126), fixed floating with Express Clic System glueless interlocking system, laid on 200 micron virgin plastic and 3mm Aerothane with 200mm overlaps including 40mm turn-up at walls including expansion joints. Expansion gaps of 10mm from walls and any vertical structures to be maintained during installation. All expansion gaps to be concealed using Kronotex flooring profiles or equal Architect approved system</u>				
53	On Screeded floors	m2	1	1,410.00	1,410.00
	INDUSTRIAL FLOORING				
	<u>Hulamin 1,473mm thick Treadbrite industrial flooring, manufactured and installed in accordance with manufacturer's recommendations. For more information contact Hulamin - details available by clicking on the contact details icon. DISTRIBUTOR/INSTALLER DETAILS: Nearest Centre: KwaZulu-Natal Distributor/Installer: Gammid Trading Contact number: +27 31 700 8594</u>				
54	On screeded floors	m2	1	1,466.00	1,466.00
	WALL LININGS				
	<u>1.25 mm "Superflex" fully flexible vinyl sheeting (with welded joints)</u>				
55	On walls	m2	1	430.00	430.00
	<u>Belgotex Berber Heritage tufted carpeting glued on</u>				
56	On walls	m2	1	465.00	465.00
	<u>Nouwens Elements woven pile carpeting glued on</u>				
57	On Walls	m2	1	435.00	435.00
	<u>FloorworX Superflex Powder Blue (Colour code: MS372) fully flexible vinyl wall cladding 1,2m wide x 1,25mm thick fixed with FloorworX No. 71 Contact Adhesive to walls with a hygrometer reading showing a moisture content of less than 70% and joints welded with a fully flexible coloured FloorworX Welding Rod to provide a continuous finished surface or equal Architect approved</u>				
58	On plastered walls	m2	1	430.00	430.00
	<u>Van Dyck Powerpoint Earth Broadloom colour Orca medium commercial (SABS use class U5) PFX Stain Shield Staple 3,66m wide carpet sheeting with SABS Class 2 fire rating, fibre weight of 650g/m² and total weight of 910g/m² with a 5 Year guarantee. Manufactured in accordance with SANS 1415:2005 laid on 50 low grab InstaLay, all installed by an approved installer in accordance with SANS 10186:2010, the code of practice for textile coverings.</u>				
59	On walls	m2	1	440.00	440.00
	SKIRTINGS, NOSINGS, ETC				
	<u>Aluminium structural movement joints and covers:</u>				
60	Anodised aluminium nosing to stairs	m	1	90.00	90.00
	<u>Grade 430 stainless steel movement joints:</u>				
61	Stainless steel heavy duty movement joint 8mm high fitted with 6mm wide polyurethane infill to suit tiling 6 to 7mm thick, fixed with adhesive to floors.	m	1	70.00	70.00
	Marley Extruda				
62	25 mm Extruda vinyl edging	m	1	65.00	65.00
63	70mm Extruda vinyl skirtings	m	1	90.00	90.00
64	64 x 38mm Extruda vinyl stair nosings	m	1	75.00	75.00
	HANDRAILS				
	<u>Extruda vinyl handrails</u>				
65	MHR1 handrails fitted over 40 x 6mm core rail	m	1	192.00	192.00
66	MHR2 handrails fitted over 40 x 10mm core rail	m	1	255.00	255.00
67	MHR3 handrails fitted over 50 x 6mm core rail	m	1	295.00	295.00
68	MHR4 handrails fitted over 50 x 10mm core rail	m	1	316.00	316.00
	POLISH, SEALERS, ETC				
	<u>Clean by stripping and sealing and apply three coats water based copolymer emulsion or other approved sealer:</u>				
69	On vinyl flooring.	m2	1	90.00	90.00
	Carried to Final Summary				
				R	34,749.00

BILL NO. 12**IRONMONGERY****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent:

Finishes to ironmongery:

Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list
 BS Satin bronze lacquered
 CP Chromium plated
 SC Satin chromium plated
 SE Silver enamelled
 GE Grey enamelled
 AS Anodised silver
 AB Anodised bronze
 AG Anodised gold
 ABL Anodised black
 PB Polished brass
 PL Polished and lacquered
 PT Epoxy coated
 SD Sanded
 Fixing:

Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories
 Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories

HINGES, BOLTS**Solid, Union or equal Architect approved**

1	32 mm (Open) x 1.25mm Chromium plated piano hinge	No	1	80.00	80.00
2	32 mm (Open) x 1.25mm Brass plated piano hinge	No	1	75.00	75.00
3	50 mm (Open) x 1.25mm Brass plated piano hinge	No	1	90.00	90.00
4	100 mm Steel Hinges	No	1	105.00	105.00
5	100 mm Steel rising hinge	No	1	105.00	105.00
6	100 mm Brass hinge	No	1	110.00	110.00
7	100 mm Brass hinge with steel washers	No	1	112.00	112.00
8	100 mm Brass hinge with nylon washers	No	1	112.00	112.00
9	102 x 102 mm Brass parliament hinge	No	1	180.00	180.00
10	75 mm Brass barrel bolt	No	1	90.00	90.00
11	75 mm Brass barrel bolt with keep fixed to metal	No	1	98.00	98.00
12	75 mm Chromium plated brass barrel bolt	No	1	108.00	108.00
13	100 mm Brass barrel bolt with keep fixed to metal	No	1	120.00	120.00
14	100 mm Brass barrel bolt with keep let into concrete	No	1	120.00	120.00
15	150 mm Brass flush bolt	No	1	169.00	169.00
16	150 mm Brass flush bolt with keep fixed to metal	No	1	169.00	169.00
17	66 mm x 41 mm Satin Chrome WC indicator bolt	No	1	135.00	135.00
18	66 mm x 41 mm Satin Chrome WC indicator bolt with keep fixed to metal	No	1	135.00	135.00
19	Assure 1520 Bar panic bolt for single door 2100mm high	No	1	189.60	189.60
20	75x41mm SC on brass butt hinges.	No	1	220.00	220.00
21	100mm Stainless Steel Fall Open Hinges	No	1	120.00	120.00
22	Union aluminium indicator bolts (code: AL8098AS) with Anodised Silver finish.	No	1	200.00	200.00
23	Union aluminium helping hand disabled facility indicator bolt (code: 37651LH) with Anodised Silver finish.	No	1	230.00	230.00
24	Union aluminium emergency exit fire bolt (code: 8066) with Red epoxy powder coated finish.	No	1	350.00	350.00
25	Union aluminium emergency exit covered turn complete (code: 8070AS) with Anodised Silver finish.	No	1	350.00	350.00
26	Union Ref 37651 Indicator Bolt Reversible	No	1	315.00	315.00
27	Union Indicator Bolt Ref: SS8023SS	No	1	320.00	320.00
"Dorma or similar Architect approved"					
28	DBC-SS-022 stainless steel adjustable roller bolt	No	1	180.00	180.00

29	DFB-SS-027/160mm stainless steel flush bolt	No	1	150.00	150.00
30	DFB-SS-028/300mm stainless steel flush bolt	No	1	180.00	180.00
31	DIB-SS-026 stainless steel indicator door bolt.	No	1	195.00	195.00
32	DAB-SS-019 stainless steel pair of automatic flush bolts and DPS-SS-032 dust proof strike.	No	1	265.00	265.00
33	Adjustor hinges SA120 as per Handles Inc	Pairs	1	400.00	400.00
34	BTS 75 Satin chromium plated single action floor spring hinge with stand open feature including adjustable top centre and box let into concrete	No	1	1,350.00	1,350.00
35	358 mm x 102 mm Satin chromium plated double action floor spring hinge with stand open feature including adjustable top centre and box let into concrete	No	1	1,600.00	1,600.00
<u>CATCHES, CABIN HOOKS, ETC</u>					
<u>Solid / Union / Halcast or similar, equal Architect approved</u>					
36	25.4 mm Nylon Single roller catch	No	1	60.00	60.00
37	25.4 mm Nylon Double roller catch	No	1	70.00	70.00
38	150 mm Brass cabin hook and eye	No	1	160.90	160.90
39	150 mm Brass cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	1	211.49	211.49
<u>LOCKS</u>					
<u>Solid / Union or equal Architect approved</u>					
40	Brass Padlock	No	1	229.00	229.00
41	50 mm I shackle padlock	No	1	260.00	260.00
42	2 Lever Latchset	No	1	280.00	280.00
43	Solid three lever deadlock	No	1	465.43	465.43
44	Solid three lever rebated deadlock	No	1	520.00	520.00
45	Solid four lever deadlock	No	1	545.35	545.35
46	Solid four lever rebated deadlock	No	1	605.00	605.00
47	Solid two lever lockset	No	1	450.00	450.00
48	Solid two lever lockset with striking plate fixed to metal	No	1	655.00	655.00
49	Solid two lever rebated lockset	No	1	700.00	700.00
50	Solid three lever lockset	No	1	600.00	600.00
51	Solid three lever lockset with striking plate fixed to metal	No	1	820.00	820.00
52	Solid three lever rebated lockset	No	1	800.00	800.00
53	Solid four lever lockset	No	1	820.00	820.00
54	Solid four lever lockset with striking plate fixed to metal	No	1	945.00	945.00
55	Solid four lever rebated lockset	No	1	800.00	800.00
56	Union three lever sliding door lock	No	1	550.00	550.00
57	Union four lever sliding door lock	No	1	720.00	720.00
58	Union single cylinder deadlock	No	1	830.00	830.00
59	Union single cylinder rebated deadlock	No	1	920.00	920.00
60	Union double cylinder deadlock	No	1	930.00	930.00
61	Union double cylinder rebated deadlock	No	1	985.00	985.00
62	Union single cylinder lockset	No	1	910.00	910.00
63	Union single cylinder lockset with striking plate fixed to metal	No	1	910.00	910.00
64	Union single cylinder rebated lockset	No	1	945.00	945.00
65	Union double cylinder lockset	No	1	1,200.00	1,200.00
66	Union double cylinder lockset with striking plate fixed to metal	No	1	1,330.00	1,330.00
67	Union double cylinder rebated lockset	No	1	1,435.00	1,435.00

68	Union single cylinder sliding door lock	No	1	810.00	810.00
69	Master Key	No	1	985.00	985.00
70	Grand master key	No	1	1,445.00	1,445.00
	'Union' Locks or equal Architect approved:				
71	SS5004-73SS Bathroom WC Locks	No	1	450.00	450.00
72	Union 37651 LH Helping Hand Indicator Bolt	No	1	825.00	825.00
73	L-2241-78SS Oval cylinder lockset.	No	1	775.00	775.00
74	L-2241-65 Oval cylinder lockset.	No	1	695.00	695.00
75	(Union -CZ682-05-222) Gower Euro Profile Cylinder lockset	No	1	810.00	810.00
76	Union CZ692-05-222 Radius Euro Profile Cylinder Lockset	No	1	810.00	810.00
77	Union L2144E / 212441E - Euro Profile Mortice Deadlock	No	1	735.00	735.00
78	Union L2244E / 222441E - Euro Profile Mortice Sash Lock	No	1	900.00	900.00
79	Two Lever approved mortice lockset (Union CZ682-24-95CH) complete with approved chromium plated handles or equal approved.	No	1	680.00	680.00
80	Three lever approved mortice lock (Union 2277-78) complete with approved chromium plated handles or equal approved.	No	1	770.00	770.00
81	Four lever approved mortice lock (Union CZ682-24-61CH) complete with approved chromium plated handles or equal approved.	No	1	710.00	710.00
	"Dorma locks or equal Architect approved"				
82	43mm single cylinder grand masterkeyed (DSC104201 nickel plated) (suiting to later spec)	No	1	620.00	620.00
83	65mm double cylinder grand masterkeyed (DDC106501 nickel plated) (suiting to later spec)	No	1	725.00	725.00
84	65mm double cylinder grand masterkeyed (DKC106501 nickel plated) (suiting to later spec)	No	1	850.00	850.00
85	DO2835 35mm basckset deadlock with roller bolt	No	1	660.00	660.00
86	D031L SS mortice latch (full size case) (lock measures 77mm overall)	No	1	660.00	660.00
87	D036S SS euro-profile cylinder sash lock case	No	1	675.00	675.00
88	D037D/37 Deadlock strike	No	1	640.00	640.00
89	D037D SS euro-profile cylinder dead lock case	No	1	680.00	680.00
90	D038R NP Rebate conversion kit for euro-profile locks	No	1	765.00	765.00
91	D080/SS rebate kit for 100mm euro cylinder lock stainless steel.	No	1	966.00	966.00
92	D082D/SS bath/w.c. deadlock 100mm stainless steel	No	1	885.00	885.00
93	D085S-SS bath/wc sashlock 100mm stainless steel	No	1	770.13	770.13
94	D086S/SS euro profile cylinder sashlock 100mm stainless steel.	No	1	780.00	780.00
95	D087D/SS euro profile cylinder deadlock 100mm stainless steel.	No	1	709.00	709.00
96	DCE-002 Stainless steel euro profile escutcheon	No	1	550.00	550.00
97	DCE-105 narrow stile cylinder escutcheons stainless steel	Pairs	1	610.00	610.00
98	DWC-005 stainless steel WC indicator and turn knob escutcheons	No	1	520.00	520.00
99	DWC-006 stainless steel WC indicator with 79mm turn knob for physically impaired	No	1	525.00	525.00
100	PHA 2/S 2 point (top and bottom) locking bolt with cross bar door leaf up to 1000mm wide, maximum door height 2270mm-silver.	Sets	1	2,963.41	2,963.41
101	PHA 3/S one point latch to active leaf,two point locking bolt(top and bottom) to inactive leaf for double doors up to 2000mm wide,maximum door height 2270mm.(silver)	Sets	1	3,800.00	3,800.00
102	PHB 3/S one point latch to active leaf,two point locking bolt(top and bottom) to inactive leaf for double doors up to 2000mm wide,maximum door height 2265mm.(silver)	Sets	1	3,800.00	3,800.00
103	PHA 3/WL 2000/2205 series one point latch to active leaf,two point locking bolt(top and bottom) to inactive leaf for double doors up to 2600mm wide,maximum door height 3200mm.(silver)	Sets	1	5,100.00	5,100.00
	"Dorma Automatic sliding door or similar equal Architect approved"				
104	ES200 Easy automatic sliding door operator for 2 leaf -100kgs each, include remote/programme switch, floor guide, track, belt, rollers, mini drive unit (track length 6m).	No	1	4,780.00	4,780.00
105	Compi 1 safety and motion sensor.	No	1	700.00	700.00

106	Battery back up	No	1	1,500.00	1,500.00
	<u>HANDLES</u>				
	<u>Dorma/Union or similar equal Architect approved</u>				
107	40 mm Brass flush handle Radius	No	1	230.00	230.00
108	40 mm Brass flush handle Square	No	1	220.00	220.00
109	61 mm dia Weaver knob	No	1	436.00	436.00
110	152 mm Dove Brass pull handle	No	1	600.00	600.00
111	Union 110 mm pull handle	No	1	470.00	470.00
112	Set of two Union 110 mm pull handles fixed back to back	No	1	700.00	700.00
113	6445-13SS 2 x 6 Oval Double Cylinder Handle	Pairs	1	600.00	600.00
114	Union AL5515-FL AS Dove aluminium flanged fixing on rose-600mm.(fitted horizontally int)	No	1	480.00	480.00
115	DPH213 pull handle vertically mounted on plate 500 x 150mm stainless steel(with cylinder cutout)	No	1	500.00	500.00
116	DPH213 pull handle vertically mounted on plate 500 x 150mm stainless steel	No	1	500.00	500.00
117	DPH 301B 300 x 25mm stainless steel pull handle with flange fixing(fitted vertically ext)	No	1	490.00	490.00
118	DPH 301D 200 X 19mm stainless steel "D" shaped straight pull handle	No	1	581.00	581.00
119	DFP-SS-025 120x40mm stainless steel flush pull handle(square ends)	No	1	590.00	590.00
120	PFS 25 back to back fixing set for DPH205/206/208/210/212/214/301A pull handles	Sets	1	520.00	520.00
121	PHT3901 external fire escape access with lever handle (if required)	No	1	976.85	976.85
122	SH810 solid stainless steel lever handles on rose with bathroom/WC escutcheon	Sets	1	452.45	452.45
123	SH810 solid stainless steel lever handles on rose without escutcheons	Pairs	1	368.55	368.55
124	SH810 solid stainless steel lever handles on rose and cylinder hole escutcheons	Sets	1	368.55	368.55
125	TH120 stainless steel lever handles on rose without escutcheons	Pairs	1	350.00	350.00
	<u>PUSH PLATES AND KICKING PLATES</u>				
	<u>Solid / Union or equal similar Architect approved</u>				
126	Union 152 x 152 x 3mm anodised aluminium push plate	No	1	660.00	660.00
127	Union 152 x 152 x 2mm Thick satin finished stainless steel push plate	No	1	600.00	600.00
128	150 x 800 x 2 Anodised Aluminium Kick Plate	No	1	810.00	810.00
129	200 x 800 x 1.2 mm Satin Finished Stainless Steel Kick Plate	No	1	850.00	850.00
	<u>"Dorma Push plates and Kicking plates or equal similar approved"</u>				
130	25mm x 44mm x 900 Gradus 190 'L' shaped door corner guards, in Grade 304 Stainless steel adn satin finish fixed with adhesive as per manufactures instruction. Custom lengths to be cut where push plate are used. Edges are to be rebated flush with side door.	No	1	250.00	250.00
131	DPP-SS 161 1,2mm push plate brushed stainless steel (with cylinder cutout)	No	1	500.00	500.00
132	DPP-SS 161 1,2mm x 500 x 150mm push plate brushed stainless steel	No	1	620.00	620.00
133	DPP-SS 161 1.2mm x 500mm high x150mm wide push plate stainless steel (as indicated on schedule)	No	1	620.00	620.00
134	0,9mm thick grade 430 Brushed Stainless Steel kick plate (code: DKP-SS-160) with profile cylinder cut out (code: DKP-SS-166), screw fixed with Stainless Steel self-tapping screws.	No	1	1,350.00	1,350.00
135	1,2mm thick grade 430 Polished Stainless Steel kick plate (code: DKP-SS-164), screw fixed with Stainless Steel self-tapping screws.	No	1	1,750.00	1,750.00
	<u>Geze or equal similar approved</u>				
136	Polished brass pushplate (Code: 60/75), size 3 x 160 x 75mm.	No	1	500.00	500.00
137	Satin anodised aluminium push plate with left hand cylinder cut out (Code: 70/160CL), size 3 x 160 x 160mm.	No	1	550.00	550.00
138	Satin anodised aluminium push plate with right hand keyhole cut out (Code: 70/160KR), size 3 x 160 x 160mm.	No	1	550.00	550.00
139	Satin stainless steel kickplate (Code: 80/320), size 0.9 x 320 x 770mm.	No	1	700.00	700.00

	<u>DOOR CLOSERS</u>				
	<u>Solid / Union or equal similar approved"</u>				
140	Union 7770 Door Closer	No	1	1,350.00	1,350.00
141	Union 7770 Door Closer with bracket fixed to metal	No	1	1,400.00	1,400.00
142	Fortis concealed door closer	No	1	1,460.00	1,460.00
143	Fortis concealed door closer with bracket fixed to metal	No	1	1,500.00	1,500.00
	<u>"Dorma Door closers or equal similar approved"</u>				
144	TS73V EN 2-4 variable spring strength regular arm door closer	No	1	1,795.79	1,795.79
145	TS73V EN 2-4 variable spring strength hold open arm door closer	No	1	1,916.46	1,916.46
146	TS73V EN 2-4 variable spring strength parallel arm door closer non hold open	Sets	1	2,044.90	2,044.90
147	TS73V EN 2-4 variable spring strength parallel arm door closer	No	1	2,044.90	2,044.90
148	TS83/EN2-6 parallel arm door close with DELAYED ACTION - push side fitting (t/b set @EN2)	No	1	2,842.74	2,842.74
149	TS90V/EN32 "impulse"slide channel door closer-non hold open,pull side fitting	No	1	1,351.35	1,351.35
150	TS90V/EN32 "impulse"slide channel door closer-non hold open function, push side fixing, with angle bracket and channel fitted to soffit, closer fitted to push face of door.	Sets	1	1,519.03	1,519.03
151	SR392 Size 1 door co-ordinator for double doors wider than 1600mm.	No	1	2,390.25	2,390.25
152	7836 Union Delayed Action EN2-6 Overhead door closer or equal Architect approved.	No	1	2,587.00	2,587.00
	<u>"Cisa Door closers or equal similar approved"</u>				
153	Adjustable arm fire rated "Professional Plus2" adjustable strength overhead door closer (Code: C1610-03-97) with backcheck and without hold open device for door width 850mm - 1100mm and door weight 40kg - 80kg, closing force 2-4 with Grey finish.	No	1	2,040.00	2,040.00
154	Cam action sliding arm (pull side - with delayed action) fire rated adjustable strength overhead door closer (Code: D7200-04-97) with backcheck and without hold open device for door width 850mm - 1250mm and door weight 40kg - 100kg, closing force 2-5 with Grey finish.	No	1	5,349.00	5,349.00
	<u>Dorma Hold-On Magnets or equal architect approved</u>				
155	1 x EM 500 G 24v DC white wall mounted door magnet (holding force 500 N) with adapter frame, door mounted MAW swivel joint receiver plate for swing door and HT-AP surface fixed manual release switch.	No	1	3,634.00	3,634.00
156	2 x EM 500 A 24v DC white wall mounted door magnets (holding force 500 N) with adapter frames, door mounted MAG receiver plate for swing doors.	No	1	2,917.00	2,917.00
	<u>SLIDING GEAR</u>				
	<u>Hendersons or equal Architect approved"</u>				
157	Sliding Gear set for single door with track 900 mm long fixed to Timber Pelmet including brackets, hangers, rollers, guides, stops etc	No	1	703.00	703.00
158	Sliding Gear set for bi-parting door with track 1.5 m long fixed to Timber Pelmet including brackets, hangers, rollers, guides, stops etc	No	1	790.00	790.00
159	Sliding Gear set for set of tri folding doors with track 2 m long fixed to Timber Pelmet including brackets, hangers, rollers, guides, stops etc (hinges elsewhere)	No	1	829.00	829.00
	<u>PELMETS AND CURTAIN TRACKS</u>		0		
	<u>Kirtech or equal Architect approved"</u>				
160	Single curtain track for soffit fixing including 14 rollers per metre, stop ends/ brackets etc. (nail plugged)	m	1	142.61	142.61
161	Double curtain track for face fixing with 110 mm projection including 14 rollers per metre, stop ends/ brackets etc. (nail plugged)	m	1	188.57	188.57
162	Hospital cubicle curtain track 50 mm below soffit including 12 gliders per metre , stop ends/ brackets etc. (nail plugged)	m	1	314.57	314.57
	<u>Frowin / Kirston or equal Architect approved</u>				
163	Suspended interbed cubicle curtain tracks, suspended below ceilings including gliders per metre, hangers, brackets, stopped ends, etc (plugged) made of natural anodized aluminium.	m	1	549.00	549.00
164	Shower cubicle curtain track 800mm below ceilings including gliders per metre, hangers, brackets, stopped ends, etc (plugged)	m	1	521.00	521.00
165	Extra over for end bracket plugged	No	1	254.00	254.00
166	Extra over for slow bend	No	1	264.00	264.00

	<u>LETTERS, NAMEPLATES, ETC.</u>				
	<u>Solid / Union or equal similar approved"</u>				
167	90 mm High plastic letter or numeral	No	1	150.00	150.00
168	125 mm High brass letter or numeral	No	1	180.00	180.00
169	250 x 50 x 2 mm Thick perspex plate with 40 mm high engraved and painted letters or numerals	No	1	200.00	200.00
170	250 x 50 x 2 mm Thick Stainless Steel 304 plate with 40 mm high engraved and painted letters or numerals	No	1	450.00	450.00
171	150 x 150 x 2mm anodised aluminium plate with male or female symbol	No	1	450.00	450.00
172	300 x 200 x 2 mm anodised aluminium plate with paraplegic symbol	No	1	600.00	600.00
173	150 x 150 x 2 mm anodised aluminium plate with fire exit / fire extinguisher / fire hose	No	1	500.00	500.00
	<u>"Union" or equal and Architect approved:</u>				
174	150 x 150mm AL5066-E11-2AS Anodised aluminium plate with female symbol.	No	1	450.00	450.00
175	150 x 150mm AL5066-E10-2AS Anodised aluminium plate with male symbol.	No	1	450.00	450.00
176	150 x 150mm AL5066-E14-2AS Anodised aluminium plate with paraplegic symbol.	No	1	480.00	480.00
177	152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door (Union AL5066E-06/2AS).	No	1	450.00	450.00
178	152 x 152 x 2mm Anodised silver engraved sign with Directional Pictogram E08, fixed to wall or door (Union AL5066E-08/2AS).	No	1	480.00	480.00
179	Stainless steel engraved plate 4xSS5066E-06SSE11 (girls) or equal Architect approved	No	1	450.00	450.00
180	Stainless steel engraved plate 2xSS5066E-06SSE10 (boys) or equal Architect approved.	No	1	450.00	450.00
	<u>Acrylic door plates:</u>				
181	40 x 40 x 5mm Thick black acrylic door number plate with two numbers size 25mm high, engraved with arial font and painted white, fixed to door, door frame or wall with chromium plated domeheaded screws.	No	1	150.00	150.00
	<u>PHOTOLUMINESCENT SIGNS</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Signs are to comply with SANS 1186-1 to 5 and to be to the approval of the local authority. Signs are to have anodised aluminium frames Prices are to include for fixing by approved methods. The use of double sided tape will not be permitted. Surface mounted signs are to be concealed fixed and ceiling mounted signs are to be hung with 2mm diameter stainless steel cables Single sided ceiling mounted signs are to have 2mm satin chrome anodised aluminium back panels Samples, specifications, literature, etc of materials and fabricated articles the tenderer proposes to use shall be submitted with the tender A ten year guarantee on materials and workmanship shall be submitted by the successful tenderer References at the end of the item descriptions are to the relative items on drawings annexed to (issued separately) these bills of quantities				
	<u>Wall mounted photoluminescent statutory signs in 150 x 150mm modules</u>				
182	150 x 150mm Sign with one number	No	1	200.00	200.00
183	150 x 150mm Sign with one pictogram	No	1	250.00	250.00
184	300 x 150mm Sign with two pictograms	No	1	300.00	300.00
185	300 x 150mm Sign with EXIT sign	No	1	280.00	280.00
186	450 x 150mm Sign with three pictograms	No	1	360.00	360.00
187	600 x 150mm Sign with four pictograms	No	1	400.00	400.00
	<u>Ceiling mounted double sided photoluminescent statutory signs in 190 x 190mm modules</u>				
188	190 x 190mm Sign with one number	No	1	280.00	280.00
189	190 x 190mm Sign with one pictogram	No	1	300.00	300.00
190	380 x 190mm Sign with two pictograms	No	1	290.00	290.00
191	380 x 190mm Sign with EXIT sign	No	1	290.00	290.00
192	570 x 190mm Sign with three pictograms	No	1	380.00	380.00
193	760 x 190mm Sign with four pictograms	No	1	430.00	430.00
	<u>SUNDRIES</u>				
	<u>Solid / Union or equal similar approved"</u>				
194	12 mm Diameter steel dowel 1000 mm long in and including mortice in timber and brickwork or concrete	No	1	120.00	120.00
195	38mm Diameter rubber door stop	No	1	150.00	150.00

196	38mm Diameter rubber door stop plugged	No	1	150.00	150.00
197	SS Floor Mounted door stop plugged	No	1	150.00	150.00
198	Single brass coat hook	No	1	120.00	120.00
199	Aluminium coat hook	No	1	150.00	150.00
200	Double brass hat and coat hook	No	1	180.00	180.00
201	Aluminium hat and coat hook	No	1	150.00	150.00
202	Double brass hat and coat hook with rubber buffer	No	1	108.00	108.00
203	Aluminium hat and coat hook with rubber buffer	No	1	120.00	120.00
204	10 mm anodised aluminium cover strip fixed over expansion joints in floors	m	1	86.40	86.40
205	10 mm anodised aluminium cover strip fixed over expansion joints in walls and ceilings	m	1	108.00	108.00
206	Raven nylon and aluminium smoke sealing strip let into edges of doors	m	1	156.00	156.00
207	Raven sealing strip fixed to top and edges of 1000 x 2100 mm high single door	No	1	443.00	443.00
208	Raven sealing strip fixed to bottom of 915 mm wide single door	No	1	324.00	324.00
	<u>"Dorma or similar equal approved"</u>				
209	DDS-NP-018 nickel plated floor stop	No	1	150.00	150.00
210	DDS-NP-018 Nickel plated floor stop (fitted externally)	No	1	150.00	150.00
211	DORMA DDS-SS-017 stainless steel door stop.	No	1	180.00	180.00
212	DORMA DDS-NP-018 nickel plated door stop.	No	1	160.00	160.00
213	DHC-SS-031B stainless steel hat and coat hook with rubber buffer(fitted internally)	No	1	130.00	130.00
214	DHC-SS-031B stainless steel hat and coat hook with rubber buffer	No	1	130.00	130.00
215	DPH206 "T" 400x32mm stainless steel "T" shaped offset bolt through pull handle	No	1	357.56	357.56
216	Howick H107 150x32mm heavy duty necked bolt satin chrome	No	1	92.91	92.91
217	32mm Diameter black rubber door stop plugged to concrete floor.	No	1	120.00	120.00
218	Union AL 8730 AS Aluminium door stop or equal Architect approved.	No	1	170.00	170.00
219	5004-73SS Union or equal Architect approved privacy Escutcheon for physically disabled persons.	No	1	350.00	350.00
	<u>BATHROOM FITTINGS</u>				
	<u>Halcast or equal similar approved"</u>				
220	20 mm Diameter chromium plated curtain or hanging rail 900 mm long including flanged end brackets	No	1	550.00	550.00
221	20 mm Diameter chromium plated curtain or hanging rail 1800 mm long including flanged end brackets	No	1	950.00	950.00
222	20 mm Diameter chromium plated towel rail 1000 mm long including end brackets	No	1	650.00	650.00
223	20 mm Diameter chromium plated towel rail 1500 mm long including end brackets plugged	No	1	920.00	920.00
224	C P towel ring	No	1	360.00	360.00
225	CP Towel Ring plugged	No	1	385.00	385.00
226	Lockable toilet roll holder plugged	No	1	650.00	650.00
227	CP Soap Holder plugged	No	1	750.00	750.00
228	32mm Type 9 back grab rail 800mm long plugged	No	1	1,145.00	1,145.00
229	32mm Type 8 side grab rail 900mm girth plugged	No	1	1,273.13	1,273.13
230	300 mm Wide x 400 mm High White Bathroom cabinet plugged	No	1	909.55	909.55
	<u>TOILET ACCESSORIES</u>				
	<u>Franke or equal Architect approved</u>				
231	Stainless steel lockable toilet roll holder , wall mounted of satin finish with surface refinement. STRX 672 code 2120044	No	1	640.00	640.00
232	Stainless steel liquid soap dispenser STRX672 code 2120041	No	1	252.00	252.00
233	Stainless steel double arm soap racks code 2120089, size 163 x 100mm deep, plugged and screwed to wall with stainless steel screws. Colour polished stainless steel.	No	1	500.00	500.00

234	Stainless steel hot air dryer or fixed to brickwork or concrete code 250002	No	1	4,450.00	4,450.00
235	Vertical wall mounted changing station code XINW601 -as per architects specifications. max weight 25kg	No	1	6,000.00	6,000.00
236	Surface mounted liquid soap dispenser model: STRX618, (Product code: 359705) Manufactured from (18/10) stainless steel, surface satin finish with Franke cylinder lock with Franke standard key, Size 100 x 134 x 304mm installed as per manufacturer's instructions or equal Architect approved	No	1	1,200.00	1,200.00
237	Surface Mounted Paper Towel dispenser model : STRX600, (product code: 359716) Manufactured from (18/10) stainless steel, surface satin finish with Franke Cylinder lock with Franke standard key, Size 156 x 141 x 303mm or equal Architect approved installed as per manufacturer's instructions	No	1	3,500.00	3,500.00
238	Surface Mounted Waste Bin Model: STRX605 (product code: 359730), Manufactured from (18/10) stainless steel, surface satin finish, with Franke cylinder lock and standard Franke key or equal Architect approved installed as per manufacturers instructions	No	1	2,564.00	2,564.00
	<u>Roman Dietsche or equal Architect approved"</u>				
239	Varuna brass chrome-plated spare toilet roll holders (code: 779210), overall size 156 x 60 x 93mm, fixed to wall with Dietsche-glue system.	No	1	1,250.00	1,250.00
240	Varuna brass chrome-plated liquid soap dispensers with brass bottle (code: 777810), overall size 200 x 53 x 105mm, fixed to wall with Dietsche-glue system.	No	1	1,295.00	1,295.00
241	Quaruna brass chrome-plated toilet brush set with black Neulen bristles (code: 754710), overall size 390 x 90 x 135mm, fixed to wall with Dietsche-glue system.	No	1	1,210.00	1,210.00
	<u>Kimberley Clark or equal Architect approved</u>				
242	Professional Electronic Foam Soap and Sanitiser Dispenser colour White (Code: U9214700), overall size 190 x 290 x 100mm high, installed by a Kimberly Clark® installation team.	No	1	1,350.00	1,350.00
243	Professional Electronic Foam Soap and Sanitiser Dispenser colour Silver (Code: U1132900), overall size 190 x 290 x 100mm high, installed by a Kimberly Clark® installation team.	No	1	1,420.00	1,420.00
244	Aquarius Hand Cleanser & Sanitiser Dispenser - Cassette 1L colour White (Code: 6948000), overall size 235 x 116 x 114mm high, installed by a Kimberly Clark® installation team.	No	1	1,200.00	1,200.00
	<u>Hygizone Commercial Systems or equal Architect approved"</u>				
245	Concealed cistern odour extraction system (Code: HZ101), installed in brick wall, comprising 30mm flush-saddle fixed to waste flush pipe, 4 metre Hygi hose and duct-spigot connected to mechanical ventilation system, all in accordance with the manufacturer's recommendations.	No	1	2,872.80	2,872.80
246	Flush valve odour extraction system (Code: HZ301), comprising Hygizone STD Chrome flush-tee pipe, push fit-adaptor, 4 metre Hygi hose and duct-spigot connected to mechanical ventilation system, all in accordance with the manufacturer's recommendations.	No	1	4,035.00	4,035.00
247	Urinal odour extraction system (Code: HZ501), comprising White Hygitrap, push fit-adaptor, 4 metre Hygi hose and duct-spigot connected to mechanical ventilation system, all in accordance with the manufacturer's recommendations.	No	1	2,940.00	2,940.00
	<u>GRAB RAILS, ETC</u>				
	<u>Franke / Dorma or equal similar approved</u>				
	<u>All Grab rails are to comply with the requirements of National building regulations Part "S" & Code of practice No 0246/1993.Specifications to Department of Public works standard details and specification / approval.</u>				
248	Cistern back rail CNTXBR, Code 359910 Size 750 x 206mm deep fixed to wall as per manufacturers specifications at the height and position as shown on the room data sheets.	No	1	1,250.00	1,250.00
249	Tilting Side bar Code 12005 Size 800mm fixed to wall as per manufacturers specifications at the height and position as shown on the room data sheets.	No	1	950.00	950.00
250	Paraplegic Angle Bar CNTXPAR. Code 359885 fixed to walls as per manufacturers specifications and room data sheets.	No	1	1,177.00	1,177.00
251	Stainless Steel cistern back rail (Dorma code: DGR-SS-150), size 260 x 800mm long.	No	1	1,380.00	1,380.00
252	Stainless Steel flushvalve back rail (Dorma code: DGR-SS-151), size 80 x 800mm long.	No	1	1,400.00	1,400.00
253	Stainless Steel side grab rail (Dorma code: DGR-SS-152), size 300 x 300 x 300mm.	No	1	1,350.00	1,350.00
254	Straight Rail CNTX750, Code 359874 Size 750 x 96mm deep fixed to wall as per manufacturers specifications at the height and position as shown on the room data sheets.	No	1	1,100.00	1,100.00
255	Striaht Bar CNTX750 Code 359874 Size 600 x 96mm deep fixed to wall as per manufacturers specifications at the height and position as shown on the room data sheets.	No	1	980.00	980.00
256	Single towel rail BHM 9 P polished stainless Franke code : 2120081 size 600 x55mm deep ,plugged and screwed to the wall with stainless steel screws colour polished stainless steel	No	1	1,350.00	1,350.00
257	Single towel rail BHM 10 P polished stainless Franke code : 2120082 size 900 x55mm deep ,plugged and screwed to the wall with stainless steel screws colour polished stainless steel	No	1	1,432.80	1,432.80

258	Stainless steel BR2 Bed pan and bottle rack Franke Code 350600, Size 305 x 560 x 260mm with rubber grommets fitted to ends of 8mm diameter bottle rods, complete with removable drip tray, 19mm spigot outlet all fixed to wall with 4no anchor bolts and flat bar mounting brackets.	No	1	12,850.00	12,850.00
259	Stainless steel BR2 Bed pan and bottle rack Franke code 350650, Size 610 x 560 x 260mm with rubber grommets fitted to ends of 8mm diameter bottle rods, complete with removable drip tray, 19mm spigot outlet all fixed to wall with 4no anchor bolts and flat bar mounting brackets.	No	1	13,655.00	13,655.00
260	Stainless steel BR2 Bed pan and bottle rack Franke code 350700, Size 915 x 560 x 260mm with rubber grommets fitted to ends of 8mm diameter bottle rods, complete with removable drip tray, 19mm spigot outlet all fixed to wall with 4no anchor bolts and flat bar mounting brackets.	No	1	14,405.00	14,405.00
<u>SHELVES ETC</u>					
<u>Shelvit or equal similar approved"</u>					
261	Shelvit with standard epoxy powder coated finish SB132 Single slot wall band plugged	m	1	1,450.00	1,450.00
262	SB132 Double slot wall band plugged	m	1	1,450.00	1,450.00
263	2 Lug shelf bracket	No	1	90.00	90.00
264	3 Lug shelf bracket	No	1	120.00	120.00
265	200 x 900mm Melamine shelf	No	1	130.00	130.00
266	300 x 900mm Melamine shelf	No	1	150.00	150.00
<u>STEEL LOCKERS</u>					
<u>High quality durable steel /Just Steel or equal similar approved"</u>					
267	Single locker, 305W x 450D x1800H	No	1	2,200.00	2,200.00
268	2 Tier locker,305W x 450D x1800H	No	1	2,800.00	2,800.00
269	3 Tier locker,305W x 450D x1800H	No	1	3,550.00	3,550.00
270	4 Tier locker,305W x 450D x1800H	No	1	3,850.00	3,850.00
271	6 Tier locker,305W x 450D x1800H	No	1	4,200.00	4,200.00
272	12 Tier locker,600W x 450D x1800H	No	1	8,500.00	8,500.00
273	2,5 Shelves,600W x 450D x1800H	No	1	4,000.00	4,000.00
<u>KITCHEN CUPBOARDS</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
Kitchen cupboards are to be manufactured of 16 mm particle board with 0,8mm melamine finish on both sides and edges. Tops are to be of 32mm water resistant particle board with 1,2mm decorative thermosetting plastic laminate finish to top with balancing veneer to underside. Edges of tops are to be finished with matching laminate (Edges of tops are to be half-round post-formed with laminate wrapped around)					
Doors to be of 16mm particle board with 0,8mm melamine finish on both sides and edges (Doors to be of 16mm melamine with half-round edges and with 0,8mm melamine finish on both sides and wrapped around edges)					
Drawers are to be fitted with telescopic runners					
Doors are to be hung on self closing adjustable hinges					
Doors and drawers are to be fitted with handles or knobs					
Where described as "lockable", doors and drawers are to be fitted with cupboard locks with necked barrel bolts to double doors					
<u>Kitchen cupboards, plugged</u>					
270	Wall unit 1 500 x 500 x 500mm high	No	1	3,300.00	3,300.00
271	Floor unit 1 500 x 800 x 900mm high (granite top elsewhere)	No	1	3,500.00	3,500.00
<u>H & S Timbers Kitchen Cupboards plugged (Pre Assembled)</u>					
272	White Wall Unit 1200w x 300d x 900mm high with doors	No	1	2,640.00	2,640.00
273	White Floor Unit 1200w x 550d x 800mm high with doors	No	1	2,280.00	2,280.00
274	White Floor Unit 900w x 550d x 800mm high with doors and drawers fitted with locks	No	1	1,980.00	1,980.00
275	White Sink Unit 1200w x 550d x 800mm high with doors	No	1	2,280.00	2,280.00

	<u>Granite Worktops</u>				
276	30mm thick granite colour Brazilian Coffee with 20mm all exposed edges large large bevel, fixed to supports (elsewhere specified) using dabs of 100% clear silicone adhesive at 200mm to 300mm centres along all supports with all joints filled with matching polyester resin glue. Surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.	m2	1	2,500.00	2,500.00
277	30mm thick granite colour Four Seasons with 45 degree mitred joint with 2 - 3mm bevel on mitred, fixed to supports (elsewhere specified) using dabs of 100% clear silicone adhesive at 200mm to 300mm centres along all supports with all joints filled with matching polyester resin glue. Surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.	m2	1	2,500.00	2,500.00
	<u>Marble Worktops</u>				
278	30mm thick marble colour Bianco Carrara with 45 degree mitred joint with 2 - 3mm bevel on mitred, fixed to supports (elsewhere specified) using dabs of 100% clear silicone adhesive at 200mm to 300mm centres along all supports with all joints filled with matching polyester resin glue. Surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.	m2	1	2,800.00	2,800.00
279	20mm thick marble colour Marron Emprador with 45 degree mitred joint with 2 - 3mm bevel on mitred, fixed to supports (elsewhere specified) using dabs of 100% clear silicone adhesive at 200mm to 300mm centres along all supports with all joints filled with matching polyester resin glue. Surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.	m2	1	2,650.00	2,650.00
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
	<u>Manufactured by "Parrot products" or similar approved</u>				
280	Laurel carpeted anodised aluminium bulleting board size 1200 x 900mm high with concealed mounting mechanism, wall mounted with 6mm screw to masonry plugs and screws as supplied. Additional mounting brackets for boards longer than 1500mm.	No	1	964.71	964.71
281	Laurel carpeted anodised aluminium bulleting board size 1500 x 1200mm high with concealed mounting mechanism, wall mounted with 6mm screw to masonry plugs and screws as supplied. Additional mounting brackets for boards longer than 1500mm.	No	1	1,506.89	1,506.89
282	Magnetic receptive white board, size 1200 x 900mm including 450mm x 35mm slide tray and easy rail system high with concealed mounting mechanism, wall mounted with 6mm screw to masonry plugs and screws as supplied. Additional mounting brackets for boards longer than 1500mm.	No	1	2,180.86	2,180.86
283	Magnetic receptive white board, size 1500 x 1200mm including 450mm x 35mm slide tray and easy rail system high with concealed mounting mechanism, wall mounted with 6mm screw to masonry plugs and screws as supplied. Additional mounting brackets for boards longer than 1500mm.	No	1	2,797.57	2,797.57
	<u>BLINDS</u>				
	<u>Hunter Douglas Roller Blinds or equal Architect approved</u>				
284	Luxaflex® Series 10 manually operated Roller Blind with standard light reduction, privacy and light control flame retardant fabric, size 2400 x 1400mm, face fixed to walls, controlled with Nickel plated steel chain.	No	1	1,210.00	1,210.00
285	Luxaflex® Series 10 manually operated Roller Blind with reduced light reduction, privacy and light control antimicrobial fabric, size 1500 x 1450mm, recess fixed to walls including side guiding, controlled with Stainless steel chain.	No	1	783.00	783.00
286	Luxaflex® Series 20 manually operated Roller Blind with enhanced light reduction, privacy and light control flame retardant fabric, size 2000 x 1500mm, face fixed to walls including side guiding, controlled with Stainless steel chain.	No	1	1,080.00	1,080.00
287	Luxaflex® Series 70 manually operated Roller Blind with standard light reduction, privacy and light control flame retardant fabric and light reducing side channels, size 2000 x 1500mm, face fixed to walls, controlled with Nickel plated steel chain.	No	1	1,080.00	1,080.00
	<u>Hunter Douglas Aluminium Venetian Blinds or equal Architect approved</u>				
288	Luxaflex manually operated 16mm standard light reduction, privacy and light control aluminium Venetian Blind with Classic string tape, size 2000 x 1500mm, face fixed to walls controlled with hand operated lift and tilt cords.	No	1	1,095.00	1,095.00
289	Luxaflex manually operated 25mm standard light reduction, privacy and light control aluminium Venetian Blind with Classic string tape, size 2000 x 1500mm, face fixed to walls including holdown brackets controlled with hand operated lift and tilt cords.	No	1	1,095.00	1,095.00
290	Luxaflex manually operated 50mm standard light reduction, privacy and light control aluminium Venetian Blind with Classic string tape, size 2000 x 1500mm, face fixed to walls including holdown brackets controlled with hand operated lift and tilt cords.	No	1	1,150.00	1,150.00
291	Luxaflex manually operated 50mm standard light reduction, privacy and light control aluminium Venetian Blind with Classic string tape, size 2000 x 1800mm, face fixed to walls controlled with hand operated lift and tilt cords.	No	1	1,300.00	1,300.00
292	Luxaflex manually operated 70mm standard light reduction, privacy and light control aluminium Venetian Blind with Classic string tape, size 2000 x 2000mm, face fixed to walls controlled with hand operated lift and tilt cords.	No	1	1,460.00	1,460.00
	<u>Windovert Vertical Blinds or equal Architect approved</u>				
293	Absa-Grey-W1250 vertical blind with 90mm wide vanes, size 2000mm x 2000mm high with 46mm x 25mm high powder-coated (colour to be selected) top track, fixed inside reveal with Easy-fix clips.	No	1	1,470.00	1,470.00

294	Athena Burgandy vertical blind with 127mm wide vanes, size 2000mm x 2000mm high with 46mm x 25mm high powder-coated (colour to be selected) top track, fixed inside reveal with Easy-fix clips.	No	1	1,510.00	1,510.00
<u>Windovert Roller Blinds or equal Architect approved</u>					
295	Luminary Apricott roller blind size 2000mm x 2000mm high with S1 scalloped lower edge, aluminium roller and side controlled chain system with automatic clutch mechanism manually operated blind to be fitted inside reveal to concrete lintel.	No	1	1,500.00	1,500.00
296	Luminary White roller blind size 2000mm x 2000mm high with S2 scalloped lower edge, aluminium roller and side controlled chain system with automatic clutch mechanism manually operated blind to be fitted inside reveal to concrete lintel.	No	1	1,550.00	1,550.00
297	Blockout Pebble roller blind size 2000mm x 2000mm high with S4 scalloped lower edge, aluminium roller and side controlled chain system with automatic clutch mechanism manually operated blind to be fitted inside reveal to concrete lintel.	No	1	1,600.00	1,600.00
<u>Windovert Wooden Venetian Blinds or equal Architect approved</u>					
298	Mahogany wooden ventian blind, size 2000mm x 2000mm high with 25 x 3,2mm thick slats including matching 65mm valance fixed to front of headrail, cordlock and roller pins, blind to be fitted inside reveal to concrete lintel.	No	1	1,580.00	1,580.00
299	Natural wooden ventian blind, size 2000mm x 2000mm high with 50 x 3,2mm thick slats including matching 65mm valance fixed to front of headrail, cordlock and roller pins, blind to be face fixed to plastered brickwork.	No	1	1,610.00	1,610.00
Carried to Final Summary				R	339,565.06

BILL NO. 13**STRUCTURAL STEELWORK****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

All steelwork to be manufactured as per engineers drawings, details and specifications.

NOTE: All steel will be Hot dipped galvanised unless otherwise stated.

Descriptions

Descriptions of bolts shall be deemed to include nuts and washers.

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.

Descriptions of steel, including tonnage, shall be deemed to include hot dipped galvanizing.

GALVANISED STEEL COLUMNS AND BEAMS**Welded beams in single lengths with flat section bearer and connection plates bolted to concrete columns:**

1	100 x 55 x 8kg/m Universal Beam 'I'-section columns.	t	1	28,000.00	28,000.00
2	120 x 64 x 10kg/m Universal Beam 'I'-section columns.	t	1	28,000.00	28,000.00
3	140 x 73 x 13kg/m Universal Beam 'I'-section columns.	t	1	28,000.00	28,000.00
4	160 x 82 x 16kg/m Universal Beam 'I'-section columns.	t	1	28,000.00	28,000.00
5	180 x 91 x 19kg/m Universal Beam 'I'-section columns.	t	1	28,000.00	28,000.00
6	200 x 100 x 22kg/m Universal Beam 'I'-section columns.	t	1	28,000.00	28,000.00
7	203 x 133 x 25kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
8	203 x 133 x 30kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
9	254 x 146 x 31kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
10	254 x 146 x 37kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
11	254 x 146 x 43kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
12	305 x 102 x 25kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
13	305 x 102 x 29kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
14	305 x 102 x 33kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
15	356 x 171 x 45kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
16	356 x 171 x 57kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
17	356 x 171 x 67kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
18	457 x 191 x 98kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
19	533 x 210 x 82kg/m Universal Beam 'I'-section columns.	t	1	30,000.00	30,000.00
20	152 x 152 x 23 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
21	152 x 152 x 30 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
22	152 x 152 x 37 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
23	203 x 203 x 46 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
24	203 x 203 x 52 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
25	203 x 203 x 60 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
26	203 x 203 x 71 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
27	203 x 203 x 86 kg/m H Section Parallel Flange	t	1	30,000.00	30,000.00
28	254 x 254 x 73 kg/m H Section Parallel Flange	t	1	28,000.00	28,000.00

29	254 x 254 x 89 kg/m H Section Parallel Flange	t	1	28,000.00	28,000.00
30	254 x 254 x 107 kg/m H Section Parallel Flange	t	1	32,000.00	32,000.00
31	254 x 254 x 132 kg/m H Section Parallel Flange	t	1	28,000.00	28,000.00
32	254 x 254 x 167 kg/m H Section Parallel Flange	t	1	28,000.00	28,000.00
33	305 x 305 x 97 kg / m H Section Parallel Flange	t	1	28,000.00	28,000.00
34	305 x 305 x 158 kg / m H Section Parallel Flange	t	1	28,000.00	28,000.00
35	305 x 305 x 283 kg/m H Section Parallel Flange	t	1	28,000.00	28,000.00
36	203 x 203 x 54 kg/m H Section Piles	t	1	28,000.00	28,000.00
37	254 x 254 x 63 kg/m H Section Piles	t	1	28,000.00	28,000.00
38	254 x 254 x 85 kg/m H Section Piles	t	1	28,000.00	28,000.00
39	305 x 305 x 79 kg / m H Section Piles	t	1	28,000.00	28,000.00
40	305 x 305 x 110 kg / m H Section Piles	t	1	28,000.00	28,000.00
41	100 x 50 x 11 kg/m Channels	t	1	28,000.00	28,000.00
42	120 x 55 x 13 kg/m Channels	t	1	28,000.00	28,000.00
43	140 x 60 x 16 kg/m Channels	t	1	28,000.00	28,000.00
44	180 x 70 x 22 kg/m Channels	t	1	30,000.00	30,000.00
45	200 x 75 x 25 kg/m Channels	t	1	30,000.00	30,000.00
46	240 x 85 x 33 kg/m Channels	t	1	30,000.00	30,000.00
47	300 x 100 x 46 kg/m Channels	t	1	30,000.00	30,000.00
<u>GALVANISED RAFTERS, PURLINS, GIRTS, BRACING, ETC.</u>					
<u>Tremer prefabricated steel frames, section, rafters, purlins bolted to steel:</u>					
48	20 x 50 x 2.5mm Hollow square section	t	1	28,000.00	28,000.00
49	60 x 60 x 3mm Hollow square section	t	1	28,000.00	28,000.00
50	75 x 75 x 3mm Hollow square section	t	1	28,000.00	28,000.00
51	75 x 75 x 4.5mm Hollow square section	t	1	28,000.00	28,000.00
52	90 x 90 x 3mm Hollow square section	t	1	28,000.00	28,000.00
53	90 x 90 x 5.0mm Hollow square section	t	1	28,000.00	28,000.00
54	100 x 100 x 4.5mm Hollow square section	t	1	28,000.00	28,000.00
55	120 x 120 x 4.5mm Hollow square section	t	1	28,000.00	28,000.00
56	150 x 150 x 5.0mm Hollow square section	t	1	28,000.00	28,000.00
57	200 x 200 x 5.0mm Hollow square section	t	1	28,000.00	28,000.00
58	75 x 50 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
59	100 x 50 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
60	100 x 75 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
61	125 x 50 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
62	125 x 65 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
63	125 x 75 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
64	150 x 50 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
65	150 x 65 x 20 x 2.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
66	150 x 75 x 20 x 3.0 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
67	175 x 50 x 20 x 3.0 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
68	175 x 65 x 20 x 3.0 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
69	175 x 75 x 20 x 3.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
70	200 x 75 x 20 x 3.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00

71	225 x 50 x 20 x 3.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
72	225 x 70 x 20 x 3.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
73	250 x 75 x 20 x 4.5 Cold-formed lipped channels - purlins.	t	1	28,000.00	28,000.00
	<u>BOLTS, FASTENERS, ETC</u>				
	<u>Bolts, plates to columns, beams, etc:</u>				
74	M6 Bolts	No	1	4.00	4.00
75	M8 Bolts	No	1	4.50	4.50
76	M10 Bolts	No	1	5.00	5.00
77	M12 Grade 4.8 Bolts.	No	1	7.00	7.00
78	M16 Grade 8.8 J Bolts.	No	1	10.00	10.00
79	M20 Bolts	No	1	15.00	15.00
80	M24 Bolts	No	1	20.00	20.00
81	M30 Bolts	No	1	25.00	25.00
82	M36 Bolts	No	1	27.00	27.00
83	12mm diameter HILTI bolts cast in concrete	No	1	15.00	15.00
84	200 x 100 x 6mm Flat section base plate welded to hollow sections including drilling of holes for bolts	No	1	100.00	100.00
85	200 x 100 x 8mm Flat section base plate welded to IPE 200 including drilling of holes for bolts	No	1	120.00	120.00
86	275 x 75 x 6mm Flat section base plate welded to hollow sections including drilling of holes for bolts	No	1	130.00	130.00
87	330 x 100 x 12mm Flat section base plate welded on IPE 200 including drilling of holes for bolts	No	1	300.00	300.00
	<u>Mitek Eco Multi-purpose Brackets or equal similar Architect approved.</u>				
88	MiTek® eCo® Type A, size 150 x 60 x 70 x 2,5mm thick multi purpose bracket.	No	1	230.00	230.00
89	MiTek® eCo® Type B, size 50 x 50 x 50 x 2,5mm thick multi purpose bracket.	No	1	180.00	180.00
90	MiTek® eCo® Type C, size 50 x 50 x 20 x 2,5mm thick multi purpose bracket.	No	1	160.00	160.00
91	MiTek® eCo® Type D, size 150 x 50 x 50 x 2,5mm thick multi purpose bracket.	No	1	250.00	250.00
92	MiTek® eCo® Type E, size 150 x 150 x 2,5mm thick multi purpose bracket.	No	1	310.00	310.00
93	MiTek® eCo® Type F, size 150 x 80 x 100 x 2,5mm thick multi purpose bracket.	No	1	280.00	280.00
94	MiTek® eCo® Type G, size 50 x 100 x 100 x 2,5mm thick multi purpose bracket.	No	1	270.00	270.00
95	MiTek® eCo® Type H, size 50 x 250 x 50 x 2,5mm thick multi purpose bracket.	No	1	270.00	270.00
	<u>Floor grating</u>				
	<u>Mentis Rectagrid type RS40 or equal and approved grille flooring panels with 30 x 4,5mm bearer bars, welded to bearers</u>				
96	Galvanised Floor in banded panels	m2	1	2,100.00	2,100.00
	<u>Mentis Rectagrid type RS40 or equal and approved grille flooring panels with 50 x 4,5mm bearer bars, welded to bearers</u>				
97	Galvanised Floor in banded panels	m2	1	2,500.00	2,500.00
	Carried to Final Summary				
				R	2,105,332.50

BILL NO. 14**METALWORK****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES

Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

NOTE: All steel will be Hot dipped galvanised unless otherwise stated.

Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete

Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres

Aluminium doors, windows, etc

Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed For purpose made windows and doors, refer to drawings annexed to (issued separately) these bills of quantities

The following certificates shall be provided prior to commencement of site work: 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively

3A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process 4A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked 5A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for period of not less than five years

STEEL HANDRAILS AND BALUSTRADES**Hi-Tech Stainless Products or equal Architect approved**

1	Grade 316 stainless steel polished raking balustrading to staircases comprising 30° SM left side mounted stanchions at 1,5m centres with top- and knee rails of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,300.00	1,300.00
2	Grade 316 stainless steel polished horizontal balustrading to walkways or landings comprising 90° SM side mounted stanchions at 1,5m centres with top- and knee rails of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,250.00	1,250.00
3	Grade 316 stainless steel polished horizontal handrail to balustrade walls comprising 90° LT top mounted stanchions at 1,5m centres with handrail of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,280.00	1,280.00
4	Grade 316 stainless steel polished removeable horizontal balustrading to walkways or landings comprising 90° PM peg mounted stanchions at 1,5m centres with top- and knee rails of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,500.00	1,500.00
5	Grade 3CR12 DOM (direct of mill) horizontal balustrading to walkways or landings comprising 90° GN side mounted stanchions at 1,5m centres with top- and knee rails of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,550.00	1,550.00
6	Grade 304 stainless steel polished horizontal balustrading to walkways or landings comprising 90° TM top mounted stanchions at 1,5m centres with top- and knee rails of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,600.00	1,600.00
7	Grade 304 stainless steel polished horizontal handrail to balustrade walls comprising 90° LS side mounted stanchions at 1,5m centres with handrail of straight tube, with 90° closure, all necessary bends and slip joints, the stanchions to be bolted in position with 45mm long M16 expanding bolts with nuts and washers and the sections of tube to be joined with slip joints and welded inside the stanchion balls.	m	1	1,650.00	1,650.00

	<u>Vital Engineering Balustrades or equal Architect approved</u>				
8	Maclock light duty, red oxide primed mild steel industrial railings, code HS 1A MS L RO, consisting of 1000mm high, 35° 43mm Ø x 2.5mm A35 stanchions spaced at 1600mm centres, with 34mm Ø x 2.5mm hand/knee rails. Top mounted stanchions to be fitted with baseplates pre-drilled with 30 x 18mm slotted holes for fixing to concrete/metal surface, including all necessary bends, closures, ferrules etc. as indicated on drawings.	m	1	1,250.00	1,250.00
9	Maclock medium duty, polished grade 304 stainless steel industrial railings, code HS 2B S4 M P, consisting of 1000mm high, 40° 50mm Ø x 2.0mm A40 stanchions spaced at 1500mm centres, with 38mm Ø x 2.0mm hand/knee rails. Top mounted stanchions to be fitted with baseplates pre-drilled with 30 x 18mm slotted holes for fixing to concrete/metal surface, including all necessary bends, closures, ferrules etc. as indicated on drawings.	m	1	1,300.00	1,300.00
10	Maclock heavy duty, polished grade 304 stainless steel industrial railings, code HS 3B S4 H P, consisting of 1050mm high, 40° 54mm Ø x 2.0mm AX40 stanchions spaced at 1600mm centres, with 44mm Ø x 2.0mm hand/knee rails. Top mounted stanchions to be fitted with baseplates pre-drilled with 30 x 18mm slotted holes for fixing to concrete/metal surface, including all necessary bends, closures, ferrules etc. as indicated on drawings.	m	1	1,300.00	1,300.00
11	Maclock heavy duty, galvanised mild steel solid forged railings, code SF 32 - 60 - 25 MS H G solid, consisting of 1000mm high, 40° 32mm Ø SA40 stanchions spaced at 1500mm centres, with 25mm Ø solid hand/knee rails. Top mounted stanchions to be fitted with baseplates pre-drilled with 30 x 18mm slotted holes for fixing to concrete/metal surface, including all necessary bends, closures, ferrules etc. as indicated on drawings.	m	1	1,650.00	1,650.00
12	Maclock heavy duty, galvanised mild steel angle ball railings, code MS H G solid, consisting of 1000mm high, 35° 60 x 60 x 6mm AA35 stanchions spaced at 1500mm centres, with 25mm Ø solid hand/knee rails. Top mounted stanchions to be fitted with baseplates pre-drilled with 30 x 18mm slotted holes for fixing to concrete/metal surface, including all necessary bends, closures, ferrules etc. as indicated on drawings.	m	1	1,580.00	1,580.00
	<u>STEEL GATES, SCREENS, POSTS, GATES, ETC</u>				
	<u>Trellidor Retractable Security Gates or equal Architect approved</u>				
13	T700 Powder Coated Galvanised Steel sliding Trellis-style gates Size 1 613 x 2032mm high fitted with deadlock system, fully framed barriers fitted in strict accordance to manufacturer's specification	No	1	11,830.00	11,830.00
14	T900 Powder Coated Galvanised Steel sliding Trellis-style gates Size 1 613 x 2032mm high fitted with deadlock system, fully framed barriers fitted in strict accordance to manufacturer's specification	No	1	11,830.00	11,830.00
15	Trojan II - 1 000 Powder Coated Galvanised Steel sliding Trellis-style gates Size 1 613 x 2032mm high fitted with deadlock system, fully framed barriers fitted in strict accordance to manufacturer's specification	No	1	12,560.00	12,560.00
16	T700 Powder Coated Galvanised Steel sliding Trellis-style gates Size 813 x 2032mm high fitted with deadlock system, fully framed barriers fitted in strict accordance to manufacturer's specification	No	1	8,190.00	8,190.00
17	Trojan II - 1 000 Powder Coated Galvanised Steel sliding Trellis-style gates Size 813 x 2032mm high fitted with deadlock system, fully framed barriers fitted in strict accordance to manufacturer's specification	No	1	9,721.00	9,721.00
	<u>Trellidor Powder-Coated electro-galvanised steel non-retractable Burglar Guard or equal Architect approved</u>				
18	Single Trellis for Window Size 350 x 600mm high	No	1	1,500.00	1,500.00
19	Single Trellis for Window Size 1 500 x 1 200mm high	No	1	5,000.00	5,000.00
20	Double Trellis for Window Size 350 x 600mm high	No	1	840.00	840.00
21	Double Trellis for Window Size 1 500 x 1 200mm high	No	1	6,500.00	6,500.00
	<u>Xpanda Plus Security Gates or equal Architect approved</u>				
22	Fully framed Xpandor Plus electro galvanised epoxy coated security gate in non standard colour (colour to be selected) , size 813 x 2032 mm high, manufactured from double vertical mild steel uprights and 12 x 3mm solid steel diamond lattices rivitted by means of with 5mm stainless steel rivets, extruded aluminium top and low profile bottom track, with nylon coated bearing top wheels and 30% glass filled nylon bottom guides, with tamper proof 4 point locking system, with perimeter framing plugged and screwed to reveal at maximum 300mm centres to concrete or brickwork.	No	1	6,000.00	6,000.00
23	Fully framed Xpandor Plus electro galvanised epoxy coated security gate in non standard colour (colour to be selected) , size 1613 x 2032 mm high, manufactured from double vertical mild steel uprights and 12 x 3mm solid steel diamond lattices rivitted by means of with 5mm stainless steel rivets, extruded aluminium top and low profile bottom track, with nylon coated bearing top wheels and 30% glass filled nylon bottom guides, with tamper proof 4 point locking system, with perimeter framing plugged and screwed to reveal at maximum 300mm centres to concrete or brickwork.	No	1	7,500.00	7,500.00
24	Fully framed Multiguard electro galvanised epoxy coated security gate in standard colour (colour to be selected), size 813 x 2032 mm high manufactured from 20 x 20mm mild steel uprights and 20 x 5mm thick solid steel diamond lattices, fixed by means of 6mm brass rivets, extruded aluminium top and low profile bottom track, with nylon coated bearing top wheels and 30% glass filled nylon bottom guides, with tamper proof 4 point locking system system, with perimeter framing plugged and screwed to face at maximum 300mm centres to concrete or brickwork.	No	1	6,200.00	6,200.00
25	Fully framed Multiguard electro galvanised epoxy coated security gate in standard colour (colour to be selected), size 1 613 x 2 032 mm high manufactured from 20 x 20mm mild steel uprights and 20 x 5mm thick solid steel diamond lattices, fixed by means of 6mm brass rivets, extruded aluminium top and low profile bottom track, with nylon coated bearing top wheels and 30% glass filled nylon bottom guides, with tamper proof 4 point locking system system, with perimeter framing plugged and screwed to face at maximum 300mm centres to concrete or brickwork.	No	1	7,800.00	7,800.00

	<u>Xpanda Burglar Guards or equal similar Architect approved</u>				
26	Standard epoxy coated Diamond design burglar guard in White finish with 10mm round bar, size 460 x 700mm high screw fixed to steel frame.	No	1	860.00	860.00
27	Standard epoxy coated Diamond design burglar guard in White finish with 10mm round bar, size 1400 x 1000mm high screw fixed to steel frame.	No	1	4,700.00	4,700.00
28	Superguard hot dip galvanised internal burglar guard, size 1400 x 1000mm high comprising 12 x 12mm solid square bar, fixed with S37 coach bolts with snap-off nuts for reveal fixing to brickwork or concrete.	No	1	4,200.00	4,200.00
	<u>Burglar guards formed of 40 x 3 galvanised mild steel angle frame, with 40 x 3 mild steel flat bars at 778mm centres and including barrel and drop bolts and steel bullet hinges welded to burglar and fixed to brickwork using a steel plate and rawl bolts, all as per drawing no. M106-05 attached to these bills of quantities:</u>				
29	Burglar Guard size 3970 x 1155 x 400mm depth to suit W1 - W8	No	1	1,600.00	1,600.00
	<u>Security Gate formed of 32x32x1.6mm wall thickness galvanised steel tube frame, 12mm diameter solid rods, VEM 6320 H "Valmetex" expanded metal mesh welded to inside of frame, 10x30mm flat bar, all as per drawing no. MDA 036 - C1 - WD - 501 attached to these bills of quantities:</u>				
30	Security Gate size 950 x 2 355mm high	No	1	3,800.00	3,800.00
	<u>CHS steel posts including 210 x 210 x 8mm base plate on 20mm thick non shrink grout with 4XM16 anchor bolts(elsewhere measured) with and including a welded "U" bracket to support 228 x 50mm SA Pine beam under rafters and under roof sheeting including fasteners (beam, rafter and roof sheeting elsewhere measured) etc:</u>				
31	103 x 4mm thick steel post	No	1	1,650.00	1,650.00
	<u>GALVANISED STEEL MINOR WORK</u>				
	<u>Bolts</u>				
32	Bolts	kg	1	25.00	25.00
33	M8 Expansion bolt 98mm anchor length	No	1	147.00	147.00
34	M10 Expansion bolt 130mm anchor length	No	1	208.50	208.50
35	M12 Expansion bolts 156mm anchor length	No	1	276.00	276.00
36	M16 Expansion bolts 153mm anchor length	No	1	474.00	474.00
	<u>Corner protectors</u>				
37	40 x 40mm brushed stainless steel wall corner protector , plugged and countersunk screwed into plaster backing with stainless steel screws.	m	1	176.00	176.00
38	30 x 30mm brass wall corner protector , bedded in tile adhesive while tiles are laid.	m	1	160.00	160.00
39	12 x 12mm Carpet Bronze anodized aluminium wall corner protector , bedded in tile adhesive while tiles are laid.	m	1	210.00	210.00
40	25 x 10mm high polished stainless steel wall corner protector , bedded in tile adhesive while tiles are laid.	m	1	250.00	250.00
	<u>HOT-DIPPED GALVANIZED STEEL WINDOW FRAMES</u>				
	<u>1,6mm Steel Windows all Hot dip galvanised (SABS) to comply with SANS 727</u>				
41	Window type NG1 Size 533 x 359mm high	No	1	758.00	758.00
42	Window type NG2 Size 1022 x 359mm high	No	1	967.00	967.00
43	Window type NG7 Size 1022 x 359mm high	No	1	1,364.00	1,364.00
44	Window type NG4 Size 1511 x 359mm high	No	1	1,573.00	1,573.00
45	Window type NG10 Size 1511 x 359mm high	No	1	1,102.00	1,102.00
46	Window type NG11 Size 2000 x 359mm high	No	1	1,708.00	1,708.00
47	Window type NG12 Size 2489 x 359mm high	No	1	300.00	300.00
48	Window type NE1 Size 533 x 654mm high	No	1	465.00	465.00
49	Window type NE2 Size 1022 x 654mm high	No	1	525.00	525.00
50	Window type NE7 Size 1022 x 654mm high	No	1	1,653.00	1,653.00
51	Window type NE5 Size 533 x 654mm high	No	1	423.00	423.00
52	Window type NE8 Size 1022 x 654mm high	No	1	722.00	722.00
53	Window type NEX7 Size 1022 x 654mm high	No	1	115.00	115.00
54	Window type NE4 Size 1511 x 654mm high	No	1	1,104.00	1,104.00
55	Window type NE10 Size 1511 x 654mm high	No	1	1,323.00	1,323.00

56	Window type NE9 Size 1511 x 654mm high	No	1	1,004.00	1,004.00
57	Window type NE11 Size 2000 x 654mm high	No	1	1,181.00	1,181.00
58	Window type NE22 Size 2000 x 654mm high	No	1	2,217.00	2,217.00
59	Window type NE12 Size 2489 x 654mm high	No	1	2,204.00	2,204.00
60	Window type NC1 Size 533 x 949mm high	No	1	730.00	730.00
61	Window type NC5F Size 533 x 949mm high	No	1	857.00	857.00
62	Window type NC2 Size 1022 x 949mm high	No	1	685.00	685.00
63	Window type NC7 Size 1022 x 949mm high	No	1	2,265.00	2,265.00
64	Window type NC2F Size 1022 x 949mm high	No	1	823.00	823.00
65	Window type NC4 Size 1511 x 949mm high	No	1	1,204.00	1,204.00
66	Window type NC10 Size 1511 x 949mm high	No	1	2,341.00	2,341.00
67	Window type NC4F Size 1511 x 949mm high	No	1	1,262.00	1,262.00
68	Window type NC10F Size 1511 x 949mm high	No	1	2,341.00	2,341.00
69	Window type NC11 Size 2000 x 949mm high	No	1	1,526.00	1,526.00
70	Window type NC11F Size 2000 x 949mm high	No	1	2,416.00	2,416.00
71	Window type NC12 Size 2489 x 949mm high	No	1	2,887.00	2,887.00
72	Window type NC12F Size 2489 x 949mm high	No	1	3,695.00	3,695.00
73	Window type ND1 Size 533 x 1245mm high	No	1	1,571.00	1,571.00
74	Window type ND5F Size 533 x 1245mm high	No	1	1,068.00	1,068.00
75	Window type ND2 Size 1022 x 1245mm high	No	1	2,100.00	2,100.00
76	Window type ND7 Size 1022 x 1245mm high	No	1	2,376.00	2,376.00
77	Window type ND2F Size 1022 x 1245mm high	No	1	904.00	904.00
78	Window type ND8 Size 1022 x 1245mm high	No	1	1,162.00	1,162.00
79	Window type ND4 Size 1511 x 1245mm high	No	1	2,500.00	2,500.00
80	Window type ND10 Size 1511 x 1245mm high	No	1	2,562.00	2,562.00
81	Window type ND4F Size 1511 x 1245mm high	No	1	1,598.00	1,598.00
82	Window type ND9 Size 1511 x 1245mm high	No	1	682.00	682.00
83	Window type ND11 Size 2000 x 1245mm high	No	1	2,340.00	2,340.00
84	Window type ND11F Size 2000 x 1245mm high	No	1	1,500.00	1,500.00
85	Window type ND12 Size 2489 x 1245mm high	No	1	1,241.00	1,241.00
86	Window type ND12F Size 2489 x 1245mm high	No	1	4,114.00	4,114.00
87	Window type ND51 Size 533 x 1540mm high	No	1	1,480.00	1,480.00
88	Window type ND55 Size 533 x 1540mm high	No	1	1,180.00	1,180.00
89	Window type ND52 Size 1022 x 1540mm high	No	1	2,340.00	2,340.00
90	Window type ND52F Size 1022 x 1540mm high	No	1	2,475.00	2,475.00
91	Window type ND57 Size 1022 x 1540mm high	No	1	3,300.00	3,300.00
92	Window type ND58 Size 1022 x 1540mm high	No	1	616.00	616.00
93	Window type ND54 Size 1511x 1540mm high	No	1	3,680.00	3,680.00
94	Window type ND54F Size 1511 x 1540mm high	No	1	3,800.00	3,800.00
95	Window type ND510 Size 1511 x 1540mm high	No	1	1,823.00	1,823.00
96	Window type ND59 Size 1511 x 1540mm high	No	1	1,679.00	1,679.00
97	Window type ND511 Size 2000 x 1540mm high	No	1	4,051.00	4,051.00
98	Window type ND511F Size 2000 x 1540mm high	No	1	4,165.00	4,165.00
99	Window type ND512 Size 2489 x 1540mm high	No	1	4,300.00	4,300.00

100	Window type ND512F Size 2489 x 1540mm high	No	1	4,474.00	4,474.00
101	Window type NG1/ND55 Size 533 x 1854mm high	No	1	1,299.00	1,299.00
102	Window type NG2/ND52 Size 1022 x 1854mm high	No	1	2,818.00	2,818.00
103	Window type NG4/ND54 Size 1511 x 1854mm high	No	1	4,790.00	4,790.00
104	Window type NG9/ND59 Size 1511 x 1854mm high	No	1	1,958.00	1,958.00
105	Window type NG11/ND511 Size 2000 x 1854mm high	No	1	5,042.00	5,042.00
106	Window type NG12/ND512F Size 2489 x 1854mm high	No	1	5,295.00	5,295.00
107	Window type G1 Size 533 x 359mm high	No	1	812.00	812.00
108	Window type G2 Size 1022 x 359mm high	No	1	1,028.00	1,028.00
109	Window type G7 Size 1022 x 359mm high	No	1	1,509.00	1,509.00
110	Window type G4 Size 1511 x 359mm high	No	1	1,761.00	1,761.00
111	Window type G9 Size 1511 x 359mm high	No	1	912.00	912.00
112	Window type G22 Size 2000 x 359mm high	No	1	2,014.00	2,014.00
113	Window type G12 Size 2489 x 359mm high	No	1	1,200.00	1,200.00
114	Window type E1 Size 533 x 654mm high	No	1	1,062.00	1,062.00
115	Window type E5F Size 533 x 654mm high	No	1	994.00	994.00
116	Window type E2 Size 1022 x 654mm high	No	1	1,461.00	1,461.00
117	Window type E7 Size 1022 x 654mm high	No	1	1,959.00	1,959.00
118	Window type E8 Size 1022 x 654mm high	No	1	963.00	963.00
119	Window type E7H Size 1022 x 654mm high	No	1	1,778.00	1,778.00
120	Window type E4 Size 1511 x 654mm high	No	1	2,358.00	2,358.00
121	Window type E4H Size 1511 x 654mm high	No	1	2,109.00	2,109.00
122	Window type E9 Size 1511 x 654mm high	No	1	1,367.00	1,367.00
123	Window type E11H Size 2000 x 654mm high	No	1	5,617.00	5,617.00
124	Window type E22 Size 2000 x 654mm high	No	1	2,440.00	2,440.00
125	Window type E12 Size 2489 x 654mm high	No	1	1,048.00	1,048.00
126	Window type E12H Size 2489 x 654mm high	No	1	2,481.00	2,481.00
127	Window type C1 Size 533 x 949mm high	No	1	1,556.00	1,556.00
128	Window type C5F Size 533 x 949mm high	No	1	1,243.00	1,243.00
129	Window type C2 Size 1022 x 949mm high	No	1	2,142.00	2,142.00
130	Window type C7 Size 1022 x 949mm high	No	1	2,931.00	2,931.00
131	Window type C2F Size 1022 x 949mm high	No	1	2,618.00	2,618.00
132	Window type C2FH Size 1022 x 949mm high	No	1	2,210.00	2,210.00
133	Window type C4 Size 1511 x 949mm high	No	1	3,517.00	3,517.00
134	Window type C10 Size 1511 x 949mm high	No	1	2,575.00	2,575.00
135	Window type C4F Size 1511 x 949mm high	No	1	3,993.00	3,993.00
136	Window type C4FH Size 1511 x 949mm high	No	1	3,369.00	3,369.00
137	Window type C88 Size 2000 x 949mm high	No	1	2,618.00	2,618.00
138	Window type C11H Size 2000 x 949mm high	No	1	3,740.00	3,740.00
139	Window type C12H Size 2489 x 949mm high	No	1	3,400.00	3,400.00
140	Window type C12FH Size 2489 x 949mm high	No	1	4,094.00	4,094.00
141	Window type D1 Size 533 x 1245mm high	No	1	1,710.00	1,710.00
142	Window type D5F Size 533 x 1245mm high	No	1	1,342.00	1,342.00
143	Window type D2 Size 1022 x 1245mm high	No	1	2,863.00	2,863.00
144	Window type D7 Size 1022 x 1245mm high	No	1	3,850.00	3,850.00

145	Window type D2F Size 1022 x 1245mm high	No	1	2,863.00	2,863.00
146	Window type D7H Size 1022 x 1245mm high	No	1	3,006.00	3,006.00
147	Window type D4 Size 1511 x 1245mm high	No	1	3,934.00	3,934.00
148	Window type D4F Size 1511 x 1245mm high	No	1	4,384.00	4,384.00
149	Window type D9 Size 1511 x 1245mm high	No	1	2,345.00	2,345.00
150	Window type D13H Size 1511 x 1245mm high	No	1	4,124.00	4,124.00
151	Window type D11FH Size 2000 x 1245mm high	No	1	4,423.00	4,423.00
152	Window type D11H Size 2000 x 1245mm high	No	1	3,640.00	3,640.00
153	Window type D12 Size 2489 x 1245mm high	No	1	4,759.00	4,759.00
154	Window type D12H Size 2489 x 1245mm high	No	1	4,743.00	4,743.00
155	Window type D51 Size 533 x 1540mm high	No	1	1,935.00	1,935.00
156	Window type D55H Size 533 x 1540mm high	No	1	1,530.00	1,530.00
157	Window type D52 Size 1022 x 1540mm high	No	1	2,837.00	2,837.00
158	Window type D52FH Size 1022 x 1540mm high	No	1	2,837.00	2,837.00
159	Window type D57 Size 1022 x 1540mm high	No	1	2,960.00	2,960.00
160	Window type D54 Size 1511 x 1540mm high	No	1	4,516.00	4,516.00
161	Window type D54FH Size 1511 x 1540mm high	No	1	4,369.00	4,369.00
162	Window type D510 Size 1511 x 1540mm high	No	1	3,299.00	3,299.00
163	Window type D59 Size 1511 x 1540mm high	No	1	2,756.00	2,756.00
164	Window type D522F Size 2000 x 1540mm high	No	1	5,949.00	5,949.00
165	Window type D522 Size 2000 x 1540mm high	No	1	5,440.00	5,440.00
166	Window type D512H Size 2489 x 1540mm high	No	1	4,640.00	4,640.00
167	Window type D512F Size 2489 x 1540mm high	No	1	1,469.00	1,469.00
168	Window type NCT1S Size 508 x 924mm high	No	1	713.00	713.00
169	Window type NCTX7S Size 997 x 924mm high	No	1	1,025.00	1,025.00
170	Window type NCTX7S5 Size 1486 x 924mm high	No	1	1,440.00	1,440.00
171	Window type NCTX7S8 Size 1975 x 924mm high	No	1	1,763.00	1,763.00
172	Window type TD7 Size 997 x 1239mm high	No	1	1,014.00	1,014.00
173	Window type TD75 Size 1486 x 1239mm high	No	1	1,123.00	1,123.00
174	Window type TD78 Size 1975 x 1239mm high	No	1	1,162.00	1,162.00
175	Window type TD57S Size 997 x 1534mm high	No	1	4,891.00	4,891.00
176	Window type TD57S5 Size 1486 x 1534mm high	No	1	6,482.00	6,482.00
177	Window type TD57S8 Size 1975 x 1534mm high	No	1	6,682.00	6,682.00
178	Window type TD57S57S Size 2464 x 1534mm high	No	1	4,892.00	4,892.00
179	Window type TD61 Size 508 x 1848mm high	No	1	950.00	950.00
180	Window type TD67 Size 997 x 1848mm high	No	1	2,976.00	2,976.00
181	Window type TD67S Size 1486 x 1848mm high	No	1	3,556.00	3,556.00
182	Window type TD678 Size 1975 x 1848mm high	No	1	3,690.00	3,690.00
183	Window type TD678S Size 1975 x 1848mm high	No	1	3,893.00	3,893.00
184	Window type TD6757 Size 2464 x 1848mm high	No	1	4,500.00	4,500.00
185	Window type TD6787 Size 2953 x 1848mm high	No	1	6,416.00	6,416.00
186	Window type NCT1S Size 533 x 949mm high	No	1	706.00	706.00
187	Window type NCTX7S Size 1022 x 949mm high	No	1	929.00	929.00
188	Window type NCTX7S5 Size 1511 x 949mm high	No	1	1,469.00	1,469.00

189	Window type NCTX758 Size 2000 x 949mm high	No	1	1,355.00	1,355.00
190	Window type TD7 Size 1022 x 1264mm high	No	1	1,014.00	1,014.00
191	Window type TD75 Size 1511 x 1264mm high	No	1	1,123.00	1,123.00
192	Window type TD78 Size 2000 x 1264mm high	No	1	1,162.00	1,162.00
193	Window type TD575 Size 1022 x 1559mm high	No	1	1,112.00	1,112.00
194	Window type TD5755 Size 1511 x 1559mm high	No	1	1,344.00	1,344.00
195	Window type TD5758 Size 2000 x 1559mm high	No	1	1,276.00	1,276.00
196	Window type TD575575 Size 2489 x 1559mm high	No	1	1,320.00	1,320.00
197	Window type TD61 Size 533 x 1873mm high	No	1	1,253.00	1,253.00
198	Window type TD67 Size 1022 x 1873mm high	No	1	1,480.00	1,480.00
199	Window type TD675 Size 1511 x 1873mm high	No	1	1,116.00	1,116.00
200	Window type TD678 Size 2000 x 1873mm high	No	1	1,401.00	1,401.00
201	Window type TD6785 Size 2000 x 1873mm high	No	1	1,469.00	1,469.00
202	Window type TD6757 Size 2489 x 1873mm high	No	1	1,987.00	1,987.00
203	Window type TD6787 Size 2978 x 1873mm high	No	1	2,863.00	2,863.00
<u>GALVANIZED PRESSED STEEL DOOR FRAMES</u>					
<u>1.2mm Rebated frames suitable for brick walls</u>					
204	Size 813 x 2032mm High Suitable for Half Brick Wall (Left Hand Stable)	No	1	1,450.00	1,450.00
205	Size 813 x 2032mm High Suitable for Half Brick Wall (Right Hand Stable)	No	1	1,450.00	1,450.00
206	Size 686 x 2032mm High Suitable for Half Brick Wall (Left Hand)	No	1	1,100.00	1,100.00
207	Size 762 x 2032mm High Suitable for Half Brick Wall (Left Hand)	No	1	1,150.00	1,150.00
208	Size 762 x 2032mm High Suitable for Half Brick Wall (Right Hand)	No	1	1,150.00	1,150.00
209	Size 813 x 2032mm High Suitable for Half Brick Wall (Left Hand)	No	1	1,450.00	1,450.00
210	Size 813 x 2032mm High Suitable for Half Brick Wall (Right Hand)	No	1	1,450.00	1,450.00
211	Size 813 x 2032mm High Suitable for One Brick Wall (Left Hand Stable)	No	1	1,500.00	1,500.00
212	Size 813 x 2032mm High Suitable for One Brick Wall (Right Hand Stable)	No	1	1,500.00	1,500.00
213	Size 762 x 2032mm High Suitable for One Brick Wall (Left Hand)	No	1	1,300.00	1,300.00
214	Size 762 x 2032mm High Suitable for One Brick Wall (Right Hand)	No	1	1,300.00	1,300.00
215	Size 813 x 2032mm High Suitable for One Brick Wall (Left Hand)	No	1	1,500.00	1,500.00
216	Size 813 x 2032mm High Suitable for One Brick Wall (Right Hand)	No	1	1,500.00	1,500.00
217	Size 813 x 2 032mm High Suitable for 90mm Thick Brick Wall (Left Hand - Stable)	No	1	1,400.00	1,400.00
218	Size 813 x 2 032mm High Suitable for 90mm Thick Brick Wall (Right Hand - Stable)	No	1	1,400.00	1,400.00
219	Size 686 x 2032mm High Suitable for 90mm Thick Brick Wall (Left Hand)	No	1	1,200.00	1,200.00
220	Size 686 x 2032mm High Suitable for 90mm Thick Brick Wall (Right Hand)	No	1	1,200.00	1,200.00
221	Size 768 x 2032mm High Suitable for 90mm Thick Brick Wall (Left Hand)	No	1	1,300.00	1,300.00
222	Size 762 x 2032mm High Suitable for 90mm Thick Brick Wall (Right Hand)	No	1	1,300.00	1,300.00
223	Size 813 x 2032mm High Suitable for 90mm Thick Brick Wall (Left Hand)	No	1	1,400.00	1,400.00
224	Size 813 x 2032mm High Suitable for 90mm Thick Brick Wall (Right Hand)	No	1	1,400.00	1,400.00
<u>1.2mm Rebated Double door frames suitable for brick walls</u>					
225	Size 1 100 x 2032mm High Suitable for One Brick Wall	No	1	2,600.00	2,600.00
226	Size 1 359 x 2032mm High Suitable for Half Brick Wall	No	1	2,750.00	2,750.00
227	Size 1 511 x 2032mm High Suitable for One Brick Wall	No	1	2,800.00	2,800.00
228	Size 1 613 x 2032mm High Suitable for One Brick Wall	No	1	2,850.00	2,850.00
229	Size 1 100 x 2032mm High Suitable for One Brick Wall	No	1	2,750.00	2,750.00
230	Size 1 359 x 2032mm High Suitable for One Brick Wall	No	1	2,800.00	2,800.00

231	Size 1 511 x 2032mm High Suitable for One Brick Wall	No	1	2,800.00	2,800.00
232	Size 1 613 x 2032mm High Suitable for One Brick Wall	No	1	2,850.00	2,850.00
233	Size 1 100 x 2032mm High Suitable for 90mm Thick Brick Wall	No	1	2,550.00	2,550.00
234	Size 1 359 x 2032mm High Suitable for 90mm Thick Brick Wall	No	1	2,700.00	2,700.00
	<u>1,2mm Rebated Single door frames with fanlight suitable for brick walls</u>				
235	Size 686 x 2032mm High Suitable for Half Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,300.00	1,300.00
236	Size 686 x 2032mm High Suitable for Half Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,300.00	1,300.00
237	Size 762 x 2032mm High Suitable for Half Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,400.00	1,400.00
238	Size 762 x 2032mm High Suitable for Half Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,400.00	1,400.00
239	Size 813 x 2032mm High Suitable for Half Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,600.00	1,600.00
240	Size 813 x 2032mm High Suitable for Half Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,600.00	1,600.00
241	Size 762 x 2032mm High Suitable for One Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,400.00	1,400.00
242	Size 762 x 2032mm High Suitable for One Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,400.00	1,400.00
243	Size 813 x 2032mm High Suitable for One Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,600.00	1,600.00
244	Size 813 x 2032mm High Suitable for One Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,600.00	1,600.00
245	Size 686 x 2032mm High Suitable for 90mm Thick Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,280.00	1,280.00
246	Size 686 x 2032mm High Suitable for 90mm Thick Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,280.00	1,280.00
247	Size 686 x 2032mm High Suitable for 90mm Thick Brick Wall (Left Hand + 305mm Fanlight)	No	1	1,280.00	1,280.00
248	Size 762 x 2032mm High Suitable for 90mm Thick Brick Wall (Right Hand + 305mm Fanlight)	No	1	1,450.00	1,450.00
	<u>1,2mm Rebated Double door frames with fanlight suitable for brick walls</u>				
249	Size 1 359 x 2 032mm High Suitable for Half Brick Wall (305mm Fanlight)	No	1	1,900.00	1,900.00
250	Size 1 511 x 2 032mm High Suitable for Half Brick Wall (305mm Fanlight)	No	1	2,080.00	2,080.00
251	Size 1 613 x 2 032mm High Suitable for Half Brick Wall (305mm Fanlight)	No	1	2,200.00	2,200.00
252	Size 1 359 x 2 032mm High Suitable for Brick Wall (305mm Fanlight)	No	1	1,900.00	1,900.00
253	Size 1 511 x 2 032mm High Suitable for One Brick Wall (305mm Fanlight)	No	1	2,080.00	2,080.00
254	Size 1 613 x 2 032mm High Suitable for One Brick Wall (305mm Fanlight)	No	1	2,200.00	2,200.00
255	Size 1 359 x 2 032mm High Suitable for 90mm Thick Brick Wall (305mm Fanlight)	No	1	1,900.00	1,900.00
256	Size 1 511 x 2 032mm High Suitable for 90mm Thick Brick Wall (305mm Fanlight)	No	1	2,080.00	2,080.00
257	Size 1 613 x 2 032mm High Suitable for 90mm Thick Brick Wall (305mm Fanlight)	No	1	2,200.00	2,200.00
	<u>GALVANISED / PRESSED STEEL CUPBOARD DOOR FRAMES</u>				
	<u>Standard cupboard door frames</u>				
258	Size 825 x 2 553mm High (CAFL)	No	1	4,626.00	4,626.00
259	Size 673 x 2 553mm High (CAFS)	No	1	4,440.00	4,440.00
	<u>1,6mm galvanised mild steel standard pressed jamb lining with double rebates to suit half brick wall:</u>				
260	Frame for door 686 x 2032mm high.	No	1	1,420.00	1,420.00
261	Frame for door 762 x 1882mm high.	No	1	1,565.00	1,565.00
262	Frame for door 813 x 2032mm high.	No	1	1,800.00	1,800.00
263	Frame for door 1359 x 2032mm high.	No	1	2,100.00	2,100.00
264	Frame for door 1511 x 2032mm high.	No	1	2,500.00	2,500.00
265	Frame for door 1613 x 2032mm high.	No	1	2,800.00	2,800.00
	<u>1,6mm galvanised mild steel standard pressed jamb lining with double rebates to suit one brick wall:</u>				
266	Frame for door 686 x 2032mm high.	No	1	1,480.00	1,480.00
267	Frame for door 762 x 2032mm high.	No	1	1,565.00	1,565.00
268	Frame for door 813 x 2032mm high.	No	1	1,800.00	1,800.00

269	Frame for door 1359 x 2032mm high.	No	1	2,100.00	2,100.00
270	Frame for door 1511 x 2032mm high.	No	1	2,500.00	2,500.00
271	Frame for door 1613 x 2032mm high.	No	1	2,800.00	2,800.00
	<u>1,6mm galvanised mild steel standard pressed jamb lining with double rebates to suit half brick wall and including fanlight size 348mm high:</u>				
272	Frame for door 686 x 2032mm high.	No	1	812.00	812.00
273	Frame for door 762 x 2032mm high.	No	1	897.00	897.00
274	Frame for door 813 x 2032mm high.	No	1	1,200.00	1,200.00
275	Frame for door 1359 x 2032mm high.	No	1	1,800.00	1,800.00
276	Frame for door 1511 x 2032mm high.	No	1	1,978.00	1,978.00
277	Frame for door 1613 x 2032mm high.	No	1	2,100.00	2,100.00
	<u>1,6mm galvanised mild steel standard pressed jamb lining with double rebates to suit one brick wall and including fanlight size 348mm high:</u>				
278	Frame for door 686 x 2032mm high.	No	1	952.00	952.00
279	Frame for door 762 x 2032mm high.	No	1	980.00	980.00
280	Frame for door 813 x 2032mm high.	No	1	1,250.00	1,250.00
	<u>FIRE DOORS</u>				
	<u>Teckentrup Fire Doors or equal similar Architect approved</u>				
281	T30-HT8 D, 30 minutes fire door in single leaf, 42mm thick, size 750 x 1750mm high with 0,9mm galvanised steel sheet, prime coated Grey White (similar to code: RAL 9002) with Pyran S fire resistant glass panel, including 1No. construction hinge with ball bearings, 1No. spring hinge, 1No. mortice lock and 1No. fireproof Black plastic lever handle set and 2mm thick prime coated Grey White (similar to code: RAL 9002) galvanised steel frame with 4 sided circumferential seal, installed in accordance with the manufacturer's instructions.	No	1	6,800.00	6,800.00
282	T60-1-FSA Teckentrup 62, 60 minutes fire door in single leaf, 62mm thick, size 750 x 2125mm high with 1,0mm galvanised steel sheet, prime coated Grey White (similar to code: RAL 9002) with Pyran S fire resistant glass panel, including 1No. construction hinge with ball bearings with compensating rings for height adjustment, 1No. spring hinge, 1No. mortice lock, 1No. fireproof Black plastic lever handle set and 1No. security bolt and 1,5mm thick double rebated prime coated Grey White (similar to code: RAL 9002) galvanised 3 sided steel frame with 3 sided seal, installed in accordance with the manufacturer's instructions.	No	1	7,500.00	7,500.00
283	E60/120-1 Teckentrup 42, 120 minutes fire door in single leaf, 42mm thick, size 800 x 2000mm high with 0,9mm galvanised steel sheet, prime coated Grey White (similar to code: RAL 9002) , including 2No. heavy duty hinges with ball bearings, 1No. mortice lock, 1No. Stainless Steel lever handle set and 1No. overhead door closer and 2,0mm thick double rebated prime coated Grey White (similar to code: RAL 9002) galvanised 4 sided steel frame with 3 self adhesive closing strips, installed in accordance with the manufacturer's instructions.	No	1	9,450.00	9,450.00
284	E/60/120/240-1 Teckentrup HC-BS, 240 minutes fire door in single leaf, 45mm thick, size 1000mm x 2100mm high with 1,0mm galvanised steel sheet, prime coated Grey White (similar to code: RAL 9002) with Pyran S fire resistant glass panel, including 3No. pairs galvanised steel hinges, 1No. mortice lock, 1No. Stainless Steel lever handle set and 1No. overhead door closer and 1,5mm thick double rebated prime coated Grey White (similar to code: RAL 9002) galvanised steel frame with silicone compression seal, installed in accordance with the manufacturer's instructions.	No	1	12,200.00	12,200.00
	<u>Geze Fire Doors or equal similar Architect approved</u>				
285	Solid Masonite emergency escape doors Size 1 600 x 2 1 500mm high with galvanised steel sheet cladding including panic bolts, handles and locksets conforming to NBR regulations. For more information please contact GEZE by clicking on the info icon.	No	1	11,850.00	11,850.00
286	2-hour Class B fire doors Size 1 613 x 2 150mm high conforming to SANS 1253:1994 with reinforced steel inserts, including all hardware conforming to SANS regulations. For more information please contact GEZE by clicking on the info icon.	No	1	12,600.00	12,600.00
	<u>SOUND INSULATING AND FIRE DOORS</u>				
	<u>Aluglass Bautech Varikust Sound Insulating and fire doors or equal Architect approved</u>				
287	VK93 sound insulating double door, frame size 1600 x 2150mm high comprising steel sub-frame to suit 230mm thick plastered brick wall, profiled anodised aluminium door frame screw-fixed and sealed into slide in steel sub-frame, door leaves formed of suitably reinforced anodised aluminium frame clad on each side with decoupled 47dB STC rated panels with Valchromat finish (elsewhere specified).	No	1	11,600.00	11,600.00
288	VK105F sound insulating single fire door, frame size 813 x 2150mm high comprising sub-frame (installed by others) to suit 230mm thick plastered brick wall, profiled anodised aluminium door frame screw-fixed and sealed into steel sub-frame (installed by others), door leaf formed of suitably reinforced anodised aluminium frame clad on each side with decoupled 48dB STC rated panels with Valchromat finish (elsewhere specified) with 120 minutes fire rating.	No	1	9,200.00	9,200.00

	<u>ROLLER SHUTTER DOORS</u>				
	<u>Serranda Steel roller shutter doors or equal similar Architect approved</u>				
289	Roll- up Steel roller shutter door "Eyeball" manufactured from 75mm galvanised steel slats 1,0mm thick and punched with elliptical holes measuring 8mm x 3.5mm galvanised and powder coated face fixed chain operated for opening not exceeding 3,970 x 3,505mm high, with overhead box, 75mm wide side guides and two barrel bolts including extruded aluminium T-bar formed of 40 x 40mm angle iron, with rubber seal or other equal Architect approved system	No	1	22,800.00	22,800.00
290	Roll Up 1½ hour fire rated galvanised steel push-up 75 x 1,0mm thick endlocked slatted curtain roller shutter for opening 2000 x 2000mm high with overhead box 335mm high including canopy cover, standard bottom rail, windlock guides, galvanised steel ancillary components including 4,5mm thick end plates, guide rails, fusible link and release mechanism and canopy cover, fixed to brick jambs and concrete lintel.	No	1	18,600.00	18,600.00
291	Roll Up Alupunch polyester powder coated aluminium chain operated roller shutter for opening 1500 x 1500mm high with overhead box 285mm high including canopy cover with endlocked 77 x 2mm thick slats, 75mm wide guides, extruded aluminium T-bar with woolpile, hot dip galvanised ancillary components including end plates, guide rails, etc., centre lock, fixed to concrete lintel and concrete jambs.	No	1	16,800.00	16,800.00
	<u>GARAGE DOORS</u>				
	<u>Coroma Garage Doors or equal Architect approved</u>				
292	Vertical Riser door for hand chain operation to suit opening 3000 x 2500 high with 2957 clearance between highest point of open door and floor, supplied and installed by Coroma and fitted with shoot bolts.	No	1	13,000.00	13,000.00
293	Corosteel steel sectional manually operated garage door with 32mm diameter punched infill options with surface to receive powder coating (colour to be selected), to suit opening 2500 x 3000 high with 3500 clear backspace behind door and 3450 clearance between highest point of open door and floor, supplied and installed by Coroma.	No	1	13,500.00	13,500.00
	<u>SAFE AND STRONG ROOM DOORS</u>				
	<u>Mutual Austen / Chubb or equal Architect approved</u>				
294	Mutual Austen Safes DS50/2/HD SABS Category 2 (Heavy Duty) right hand strongroom with 2 x 7-lever security keylock and 3-wheel combination lock, overall size 850 x 1860mm high finished in rustproof undercoat for final painting by contractors.	No	1	21,500.00	21,500.00
295	Mutual Austen Safes DS1 left hand record room with 1 x 7-lever security keylock and 3-wheel combination lock, overall size 750 x 1870mm high finished in rustproof undercoat for final painting by contractors.	No	1	15,000.00	15,000.00
296	Chubb SANS 949:2005 approved left hand opening category 2 heavy duty strong room door and frame, constructed of 20mm steel plate finished with Grey zinc chromate rust resistant primer, mass 405kg, with one-way moving boltwork with 3 x 250mm round bolts with rebate on hinged side with ps_concat_and("2 x 7-lever keylocks", "1 x combination lock", "inner release mechanism", "wall mounted door stop"), all to fit wall opening of 1930 x 850mm wide.	No	1	22,000.00	22,000.00
297	Chubb SANS 949:2005 approved right hand opening category 3 main door and frame, built into wall, constructed of 70mm barrier material, with double leaf swinging grille gate constructed of mild steel bar/tubing, overall mass 1905kg, with 4-way moving boltwork, with additional emergency door, mass 499kg with 1 x 4-wheel keyless combination lock and 2 x 8 lever keylocks including 1 x 4-wheel keyless combination lock with dial check lock, 2 x 8 lever keylocks and 1 x time delay lock on vault door and 2 x 5-lever high security keylocks on the grille gate and floor mounted door stop.	No	1	32,560.00	32,560.00
	<u>STEEL TRANSFORMER ROOM DOORS</u>				
	<u>Xpanda Hot Dipped Galvanised Steel Transformer Room Doors or equal similar Architect approved</u>				
298	Substation Meter Room door in single leaf, size 900 x 2400mm high with 1,2mm solid steel slats, cabin hooks, earth strap, shooting bolt housing and Xpanda 3 Point locking system for padlock, with perimeter framing plugged and screwed to reveal at maximum 300mm centres to concrete or brickwork using Xpanda concealed rivets.	No	1	12,500.00	12,500.00
299	Substation Switch Room door in two equal leaves, size 1600 x 2400mm high with 1,2mm solid steel slats, cabin hooks, earth strap, shooting bolt housing and Xpanda 3 Point locking system for padlock, with perimeter framing plugged and screwed to reveal at maximum 300mm centres to concrete or brickwork using Xpanda concealed rivets.	No	1	18,000.00	18,000.00
300	Substation Transformer Room door in two equal leaves, size 2000 x 2400mm high with 800mm high ventilation panel made comprising 2,5mm louvred strips and vermin proof backing, with 1,2mm solid steel slats, cabin hooks, earth strap, shooting bolt housing and Xpanda 3 Point locking system for padlock, with perimeter framing plugged and screwed to reveal at maximum 300mm centres to concrete or brickwork using Xpanda concealed rivets.	No	1	25,250.00	25,250.00
	<u>ALUMINIUM WINDOWS, DOORS etc.</u>				
	All aluminium windows, doors, etc are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA. All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction. All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety flazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.				

	<u>"Nuklip" (Sheerline) or equal similar Architect Powder coated aluminium frames, shopfront sections with 6,76mm intruderproof laminated safety glass and installed in accordance with manufacturers instructions:</u>				
301	Door Size 3970 x 3505mm high complete, including ironmongery etc, all as per Door Type DW1 on Drawing No M106-05 attached to these Bills of Quantities.	No	1	34,836.00	34,836.00
	<u>Natural anodised aluminium doors</u>				
302	Size 900 x 2 100mm High Single Entrance With Cottage Pane	No	1	10,364.00	10,364.00
303	Size 900 x 2 100mm High Single Entrance With Large Pane	No	1	9,741.00	9,741.00
304	Size 1 800 x 2 100mm High Cottage Pane Double Entrance	No	1	16,295.00	16,295.00
305	Size 1 800 x 2 100mm High Large Pane Double Entrance	No	1	15,166.00	15,166.00
	<u>Natural anodised aluminium Sliding panel doors fixed to brickwork or concrete</u>				
306	Size 1 500 x 2 100mm High Sliding With 2 Panel	No	1	6,339.00	6,339.00
307	Size 1 800 x 2 100mm High Sliding With 2 Panel	No	1	6,725.00	6,725.00
308	Size 2 000 x 2 100mm High Sliding With 2 Panel	No	1	7,640.00	7,640.00
309	Size 2 100 x 2 100mm High Sliding With 2 Panel	No	1	7,645.00	7,645.00
310	Size 2 400 x 2 100mm High Sliding With 2 Panel	No	1	7,957.00	7,957.00
311	Size 2 700 x 2 100mm High Sliding With 2 Panel	No	1	9,201.00	9,201.00
312	Size 3 000 x 2 100mm High Sliding With 2 Panel	No	1	9,747.00	9,747.00
313	Size 1 800 x 2 100mm High Sliding With 3 Panel	No	1	17,346.00	17,346.00
314	Size 2 400 x 2 100mm High Sliding With 3 Panel	No	1	16,610.00	16,610.00
315	Size 3 000 x 2 100mm High Sliding With 3 Panel	No	1	21,813.00	21,813.00
316	Size 3 600 x 2 100mm High Sliding With 3 Panel	No	1	24,016.00	24,016.00
317	Size 4 200 x 2 100mm High Sliding With 3 Panel	No	1	26,272.00	26,272.00
318	Size 3 000 x 2 100mm High Sliding With 4 Panel	No	1	11,368.00	11,368.00
319	Size 3 600 x 2 100mm High Sliding With 4 Panel	No	1	12,549.00	12,549.00
320	Size 4 000 x 2 100mm High Sliding With 4 Panel	No	1	13,952.00	13,952.00
321	Size 4 200 x 2 100mm High Sliding With 4 Panel	No	1	14,225.00	14,225.00
322	Size 4 800 x 2 100mm High Sliding With 4 Panel	No	1	15,454.00	15,454.00
323	Size 5 400 x 2 100mm High Sliding With 4 Panel	No	1	16,815.00	16,815.00
324	Size 6 000 x 2 100mm High Sliding With 4 Panel	No	1	18,310.00	18,310.00
	<u>Natural anodised aluminium windows glazed with 6.76mm frosted Intruderproof laminated safety glass and plugged to brickwork:</u>				
325	Window Size 359 x 1445mm high complete, including ironmongery etc, all as per Window Type W9 & W16 on Drawing No M106-05 attached to these Bills of Quantities.	No	1	1,296.00	1,296.00
326	Window Size 673 x 1489mm high complete, including ironmongery etc, all as per Window Type W10 - W15 on Drawing No M106-05 attached to these Bills of Quantities.	No	1	2,505.00	2,505.00
	<u>Natural anodized aluminium Side hung Outward Opening</u>				
327	Window type S69 Size 600 x 900mm high	No	1	1,350.00	1,350.00
328	Window type 2S129 Size 1166 x 900mm high	No	1	2,624.00	2,624.00
329	Window type SFS179 Size 1700 x 900mm high	No	1	3,825.00	3,825.00
330	Window type S612 Size 600 x 1200mm high	No	1	1,800.00	1,800.00
331	Window type S612 Size 600 x 1200mm high	No	1	1,800.00	1,800.00
332	Window type 2S1212 Size 1166 x 1200mm high	No	1	3,498.00	3,498.00
333	Window type SFS1712 Size 1700 x 1200mm high	No	1	5,100.00	5,100.00
334	Window type S615 Size 600 x 1500mm high	No	1	2,250.00	2,250.00
335	Window type 2S1215 Size 1166 x 1500mm high	No	1	4,373.00	4,373.00
336	Window type SFS1715 Size 1700 x 1500mm high	No	1	6,375.00	6,375.00

	<u>Natural anodized aluminium Sliding windows</u>				
337	Window type HS129 Size 1200 x 900mm high	No	1	3,481.00	3,481.00
338	Window type HS1512 Size 1500 x 1200mm high	No	1	4,363.00	4,363.00
339	Window type HS1812 Size 1800 x 1200mm high	No	1	4,819.00	4,819.00
340	Window type HS1215 Size 1200 x 1500mm high	No	1	3,942.00	3,942.00
	<u>Natural anodized aluminium Top Hung Projecting Outward Opening Window</u>				
341	Window type PT96 Size 900 x 600mm high	No	1	1,279.00	1,279.00
342	Window type PT126 Size 1200 x 600mm high	No	1	1,421.00	1,421.00
343	Window type PT146 Size 1400 x 600mm high	No	1	2,100.00	2,100.00
344	Window type PT69 Size 600 x 900mm high	No	1	1,350.00	1,350.00
345	Window type PT99 Size 900 x 900mm high	No	1	1,571.00	1,571.00
346	Window type PT129 Size 1200 x 900mm high	No	1	1,799.00	1,799.00
347	Window type PT149 Size 1400 x 900mm high	No	1	3,150.00	3,150.00
348	Window type P2T189 Size 1760 x 900mm high	No	1	3,960.00	3,960.00
349	Window type P2T249 Size 2360 x 900mm high	No	1	5,310.00	5,310.00
350	Window type PT612 Size 600 x 1200mm high	No	1	1,800.00	1,800.00
351	Window type PT912 Size 900 x 1200mm high	No	1	2,700.00	2,700.00
352	Window type PT1412 Size 1400 x 1200mm high	No	1	4,200.00	4,200.00
353	Window type P2T2412 Size 2360 x 1200mm high	No	1	7,080.00	7,080.00
354	Window type PT614 Size 600 x 1400mm high	No	1	2,100.00	2,100.00
355	Window type PT914 Size 900 x 1400mm high	No	1	3,150.00	3,150.00
356	Window type P2T1814 Size 1760 x 1400mm high	No	1	6,160.00	6,160.00
357	Window type PTF915 Size 900 x 1500mm high	No	1	3,375.00	3,375.00
358	Window type PTF1215 Size 1200 x 1500mm high	No	1	4,500.00	4,500.00
359	Window type PTF1415 Size 1400 x 1500mm high	No	1	5,250.00	5,250.00
360	Window type P2T2F1815 Size 1760 x 1500mm high	No	1	6,600.00	6,600.00
361	Window type PTF918 Size 900 x 1760mm high	No	1	3,960.00	3,960.00
362	Window type PTF1218 Size 1200 x 1760mm high	No	1	5,280.00	5,280.00
363	Window type P2T2F2418 Size 2360 x 1760mm high	No	1	10,384.00	10,384.00
	<u>Natural anodized aluminium Bottom Hung Inward Opening Windows</u>				
364	Window type PB96 Size 900 x 600mm high	No	1	1,350.00	1,350.00
365	Window type PB126 Size 1200 x 600mm high	No	1	1,800.00	1,800.00
366	Window type P2B186 Size 1760 x 600mm high	No	1	2,640.00	2,640.00
367	Window type P2B246 Size 2360 x 600mm high	No	1	3,540.00	3,540.00
368	Window type PB99 Size 900 x 900mm high	No	1	2,025.00	2,025.00
369	Window type PB129 Size 1200 x 900mm high	No	1	2,700.00	2,700.00
370	Window type P2B189 Size 1760 x 900mm high	No	1	3,960.00	3,960.00
371	Window type P2B249 Size 2360 x 900mm high	No	1	5,310.00	5,310.00
372	Window type P2B912 Size 900 x 1160mm high	No	1	2,610.00	2,610.00
373	Window type P2B1212 Size 1200 x 1160mm high	No	1	3,480.00	3,480.00
374	Window type P4B1812 Size 1760 x 1160mm high	No	1	5,104.00	5,104.00
375	Window type P4B2412 Size 1760 x 1160mm high	No	1	5,104.00	5,104.00
376	Window type P6B2612 Size 2620 x 1160mm high	No	1	7,598.00	7,598.00
377	Window type PBF1215 Size 1200 x 1460mm high	No	1	4,380.00	4,380.00
378	Window type P2B2F2415 Size 2360 x 1460mm high	No	1	8,614.00	8,614.00

379	Window type PBF918 Size 900 x 1760mm high	No	1	3,960.00	3,960.00
380	Window type PBF1218 Size 1200 x 1760mm high	No	1	5,280.00	5,280.00
381	Window type P2B2F1818 Size 1760 x 1760mm high	No	1	7,744.00	7,744.00
<u>Natural anodized aluminium Top Hung Projecting Outward Windows</u>					
382	Window type PT66 Size 600 x 600mm high	No	1	900.00	900.00
383	Window type PT96 Size 900 x 600mm high	No	1	1,350.00	1,350.00
384	Window type PT126 Size 1200 x 600mm high	No	1	1,800.00	1,800.00
385	Window type PT156 Size 1500 x 600mm high	No	1	2,250.00	2,250.00
386	Window type PT186 Size 1800 x 600mm high	No	1	2,700.00	2,700.00
387	Window type PT216 Size 2100 x 600mm high	No	1	3,150.00	3,150.00
388	Window type PT246 Size 2400 x 600mm high	No	1	3,600.00	3,600.00
389	Window type PT69 Size 600 x 900mm high	No	1	1,350.00	1,350.00
390	Window type PT99 Size 900 x 900mm high	No	1	2,025.00	2,025.00
391	Window type PT129 Size 1200 x 900mm high	No	1	2,700.00	2,700.00
392	Window type PT159 Size 1500 x 900mm high	No	1	3,375.00	3,375.00
393	Window type PT189 Size 1800 x 900mm high	No	1	4,050.00	4,050.00
394	Window type PT219 Size 2100 x 900mm high	No	1	4,725.00	4,725.00
395	Window type PT249 Size 2400 x 900mm high	No	1	5,400.00	5,400.00
396	Window type PT612 Size 600 x 1200mm high	No	1	1,800.00	1,800.00
397	Window type PT912 Size 900 x 1200mm high	No	1	2,700.00	2,700.00
398	Window type PTT1212 Size 1200 x 1200mm high	No	1	3,600.00	3,600.00
399	Window type PTT1512 Size 1500 x 1200mm high	No	1	4,500.00	4,500.00
400	Window type P4TT1812 Size 1800 x 1200mm high	No	1	5,400.00	5,400.00
401	Window type PTT1812 Size 1800 x 1200mm high	No	1	5,400.00	5,400.00
402	Window type PTT2112 Size 2100 x 1200mm high	No	1	6,300.00	6,300.00
403	Window type PTT24 Size 2400 x 1200mm high	No	1	7,200.00	7,200.00
404	Window type P4TT1515 Size 1500 x 1200mm high	No	1	4,500.00	4,500.00
405	Window type P4TT2112 Size 2100 x 1200mm high	No	1	6,300.00	6,300.00
406	Window type P4TT2412 Size 2400 x 1200mm high	No	1	7,200.00	7,200.00
407	Window type PTT615 Size 600 x 1500mm high	No	1	2,250.00	2,250.00
408	Window type PTT915 Size 900 x 1500mm high	No	1	3,375.00	3,375.00
409	Window type PTT1515 Size 1200 x 1500mm high	No	1	4,500.00	4,500.00
410	Window type PTT1515 Size 1500 x 1500mm high	No	1	5,625.00	5,625.00
411	Window type P4TT1815 Size 1800 x 1500mm high	No	1	6,750.00	6,750.00
412	Window type PTT1815 Size 1800 x 1500mm high	No	1	6,750.00	6,750.00
413	Window type PTT2115 Size 2100 x 1500mm high	No	1	7,875.00	7,875.00
414	Window type PTT2415 Size 2400 x 1500mm high	No	1	9,000.00	9,000.00
415	Window type P4TT1515 Size 1500 x 1500mm high	No	1	5,625.00	5,625.00
416	Window type P4TT2115 Size 2100 x 1500mm high	No	1	7,875.00	7,875.00
417	Window type P4TT2415 Size 2400 x 1500mm high	No	1	9,000.00	9,000.00
418	Window type PTT618 Size 600 x 1800mm high	No	1	2,700.00	2,700.00
419	Window type PTT918 Size 900 x 1800mm high	No	1	4,050.00	4,050.00
420	Window type PTT1218 Size 1200 x 1800mm high	No	1	5,400.00	5,400.00
421	Window type PTT1518 Size 1500 x 1800mm high	No	1	6,750.00	6,750.00

422	Window type P4TT1818 Size 1800 x 1800mm high	No	1	8,100.00	8,100.00
423	Window type PTT1818 Size 1800 x 1800mm high	No	1	8,100.00	8,100.00
424	Window type PTT2118 Size 2100 x 1800mm high	No	1	9,450.00	9,450.00
425	Window type PTT2418 Size 2400 x 1800mm high	No	1	10,800.00	10,800.00
426	Window type P4TT2418 Size 2400 x 1800mm high	No	1	10,800.00	10,800.00
<u>Natural anodized aluminium Horizontal Sliding Windows</u>					
427	Window type HS96 Size 900 x 600mm high	No	1	1,350.00	1,350.00
428	Window type HS126 Size 1200 x 600mm high	No	1	1,800.00	1,800.00
429	Window type HS156 Size 1500 x 600mm high	No	1	3,464.00	3,464.00
430	Window type HS186 Size 1800 x 600mm high	No	1	3,867.00	3,867.00
431	Window type HS216 Size 2100 x 600mm high	No	1	3,324.00	3,324.00
432	Window type HS99 Size 900 x 900mm high	No	1	3,052.00	3,052.00
433	Window type HS129 Size 1200 x 900mm high	No	1	3,481.00	3,481.00
434	Window type HS159 Size 1500 x 900mm high	No	1	3,913.00	3,913.00
435	Window type HS189 Size 1800 x 900mm high	No	1	4,344.00	4,344.00
436	Window type HS219 Size 2100 x 900mm high	No	1	3,986.00	3,986.00
437	Window type HS912 Size 900 x 1200mm high	No	1	2,753.00	2,753.00
438	Window type HS1212 Size 1200 x 1200mm high	No	1	3,904.00	3,904.00
439	Window type HS1512 Size 1500 x 1200mm high	No	1	4,363.00	4,363.00
440	Window type HS1812 Size 1800 x 1200mm high	No	1	4,819.00	4,819.00
441	Window type HS2112 Size 2100 x 1200mm high	No	1	7,641.00	7,641.00
442	Window type HS1215 Size 1200 x 1500mm high	No	1	3,942.00	3,942.00
443	Window type HS1515 Size 1500 x 1500mm high	No	1	4,404.00	4,404.00
444	Window type HS1815 Size 1800 x 1500mm high	No	1	4,911.00	4,911.00
445	Window type HS2115 Size 2100 x 1500mm high	No	1	5,364.00	5,364.00
446	Window type HS246 Size 2400 x 600mm high	No	1	4,666.00	4,666.00
447	Window type HS276 Size 2700 x 600mm high	No	1	3,990.00	3,990.00
448	Window type HS306 Size 3000 x 600mm high	No	1	6,436.00	6,436.00
449	Window type HS249 Size 2400 x 900mm high	No	1	5,205.00	5,205.00
450	Window type HS279 Size 2700 x 900mm high	No	1	4,728.00	4,728.00
451	Window type HS309 Size 3000 x 900mm high	No	1	7,336.00	7,336.00
452	Window type HS2412 Size 2400 x 1200mm high	No	1	7,218.00	7,218.00
453	Window type HS2712 Size 2700 x 1200mm high	No	1	5,526.00	5,526.00
454	Window type HS3012 Size 3000 x 1200mm high	No	1	8,169.00	8,169.00
455	Window type HS2415 Size 2400 x 1500mm high	No	1	5,604.00	5,604.00
456	Window type HS2715 Size 2700 x 1500mm high	No	1	6,617.00	6,617.00
457	Window type HS3015 Size 3000 x 1500mm high	No	1	7,100.00	7,100.00
<u>Natural anodized aluminium Side Hung Projecting Outward Windows</u>					
458	Window type PS69 Size 600 x 900mm high	No	1	1,350.00	1,350.00
459	Window type PS129 Size 1200 x 900mm high	No	1	2,700.00	2,700.00
460	Window type PS159 Size 1500 x 900mm high	No	1	3,375.00	3,375.00
461	Window type PS189 Size 1800 x 900mm high	No	1	4,050.00	4,050.00
462	Window type PSS189 Size 1800 x 900mm high	No	1	4,050.00	4,050.00
463	Window type PSS219 Size 2100 x 900mm high	No	1	4,725.00	4,725.00
464	Window type PSS249 Size 2400 x 900mm high	No	1	2,400.00	2,400.00

465	Window type PS612 Size 600 x 1200mm high	No	1	1,800.00	1,800.00
466	Window type PS1212 Size 1200 x 1200mm high	No	1	3,600.00	3,600.00
467	Window type PS1512 Size 1500 x 1200mm high	No	1	4,500.00	4,500.00
468	Window type PS1812 Size 1800 x 1200mm high	No	1	5,400.00	5,400.00
469	Window type PSS1812 Size 1800 x 1200mm high	No	1	5,400.00	5,400.00
470	Window type PSS2112 Size 2100 x 1200mm high	No	1	6,300.00	6,300.00
471	Window type PSS2412 Size 2400 x 1200mm high	No	1	7,200.00	7,200.00
472	Window type PS615 Size 600 x 1500mm high	No	1	2,250.00	2,250.00
473	Window type PS1215 Size 1200 x 1500mm high	No	1	4,500.00	4,500.00
474	Window type PS1515 Size 1500 x 1500mm high	No	1	5,625.00	5,625.00
475	Window type PS1815 Size 1800 x 1500mm high	No	1	6,750.00	6,750.00
476	Window type PSS1815 Size 1800 x 1500mm high	No	1	6,750.00	6,750.00
477	Window type PSS2115 Size 2100 x 1500mm high	No	1	7,875.00	7,875.00
478	Window type PSS2415 Size 2400 x 1500mm high	No	1	9,000.00	9,000.00
479	Window type PS618 Size 600 x 1800mm high	No	1	2,700.00	2,700.00
480	Window type PS1218 Size 1200 x 1800mm high	No	1	5,400.00	5,400.00
481	Window type PS1518 Size 1500 x 1800mm high	No	1	6,750.00	6,750.00
482	Window type PS1818 Size 1800 x 1800mm high	No	1	8,100.00	8,100.00
483	Window type PSS1818 Size 1800 x 1800mm high	No	1	8,100.00	8,100.00
484	Window type PSS2118 Size 2100 x 1800mm high	No	1	9,450.00	9,450.00
485	Window type PSS2418 Size 2400 x 1800mm high	No	1	10,800.00	10,800.00
	<u>Natural anodized aluminium Vertical Sliding Windows</u>				
486	Window type V69 Size 600 x 900mm high	No	1	3,511.00	3,511.00
487	Window type V99 Size 900 x 900mm high	No	1	4,092.00	4,092.00
488	Window type VS612 Size 600 x 1200mm high	No	1	3,904.00	3,904.00
489	Window type VS912 Size 900 x 1200mm high	No	1	4,501.00	4,501.00
490	Window type VS1212 Size 1200 x 1200mm high	No	1	5,145.00	5,145.00
491	Window type VS615 Size 600 x 1500mm high	No	1	4,691.00	4,691.00
492	Window type VS915 Size 900 x 1500mm high	No	1	4,966.00	4,966.00
493	Window type VS1215 Size 1200 x 1500mm high	No	1	5,631.00	5,631.00
494	Window type VS612/S6 Size 600 x 1800mm high	No	1	2,700.00	2,700.00
495	Window type VS912/S6 Size 900 x 1800mm high	No	1	4,050.00	4,050.00
496	Window type VS1212/S6 Size 1200 x 1800mm high	No	1	7,500.00	7,500.00
497	Window type VS612/S9 Size 600 x 2100mm high	No	1	5,679.00	5,679.00
498	Window type VS912/S9 Size 900 x 2100mm high	No	1	6,670.00	6,670.00
499	Window type VS1212/S9 Size 1200 x 2100mm high	No	1	7,776.00	7,776.00
	<u>SUNDRY REPAIRS</u>				
500	Remove existing mild steel burglar bars from steel window frame and make good	m2	1	80.00	80.00
501	Take off and remove existing fly screens from steel residential section window frames and make good	m2	1	70.00	70.00
	<u>Refurbishing and Servicing of Window frames and furniture</u>				
502	Allow for refurbishing steel window frames including window furniture (handles, stays, closers etc), each window not exceeding 5m2 measured flat. Completed to the satisfaction of the Principal Agent	No	1	350.00	350.00
	<u>Refurbishing and Servicing of Door frames and furniture</u>				
503	Allow for refurbishing steel door frames ensuring damaged door frame jambs properly secure the door's lockset, each door not exceeding 3m2 measured flat. Completed to the satisfaction of the Principal Agent	No	1	400.00	400.00
	Carried to Final Summary				
				R	2,131,252.50

BILL NO. 15**PLASTERING****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

GRANOLITHIC**Method**

The method to be used shall be either the monolithic method or the bonded method

Preparation

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

Mix

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion specified by the Architect and should be of uniform appearance and consistent colour throughout

SCREEDS**1:3 Cement and sand screeds steel trowelled on concrete:**

1	30mm thick on floors.	m2	1	105.00	105.00
2	25mm Thick on floors and landings	m2	1	85.00	85.00
3	25mm Thick on floors on waterproofing membrane	m2	1	85.00	85.00
4	Average 40mm thick on floors to falls	m2	1	135.00	135.00
5	Average 40mm thick on roofs to falls	m2	1	135.00	135.00

	<u>25 Mpa Tal (Pty) Ltd. Screedmaster or similar approved</u>				
	<u>Seal surface of screeded floor, apply floor primer, rapidmix and screedmaster to a final thickness of 5mm, all in strict accordance with Manufacturer's instructions:</u>				
6	On screeded floor to receive vinyl sheeting (elsewhere measured)	m2	1	155.00	155.00
	<u>CEMENTITIOUS GROUT</u>				
	<u>Chip loose material away until a dense uniform surface of concrete is obtained. Feathered edges shall be saw cut to form surfaces perpendicular to the concrete (minimum 20mm). All loose material and dust to be removed by water. The cavity shall then be filled with a non-shrink cementitious grout</u>				
7	30mm Screed on floors in patches	m2	1	147.00	147.00
	<u>GRANOLITHIC</u>				
	<u>Untinted granolithic on concrete</u>				
8	30mm Thick on horizontal top surfaces	m2	1	120.00	120.00
9	30mm Thick on vertical surfaces	m2	1	125.00	125.00
10	Average 40mm thick on horizontal top surfaces to falls	m2	1	165.00	165.00
11	Average 40mm thick on horizontal top surfaces to falls and currents	m2	1	165.00	165.00
12	40mm Thick on treads and risers of stairs	m2	1	165.00	165.00
13	40mm Thick on treads and risers of stairs including reedings	m2	1	165.00	165.00
14	50mm Average thick to falls and currents on floors, including finishing off to a non-slip finish	m2	1	180.00	180.00
15	70mm Average thick to currents on floors.	m2	1	205.00	205.00
16	50mm Average thick to falls and currents on flat roofs, including finishing off to a non-slip finish	m2	1	180.00	180.00
17	Skirting 70mm high	m	1	105.00	105.00
	<u>Prepare and apply bonding liquid prior to laying granolithic finish composed of one part cement, two and a half parts concrete sand and three and a half parts granite or other approved hard stone chippings including filling in holes</u>				
18	30mm Screed on previously screeded floors	m2	1	147.00	147.00
	<u>BRUSHED FINISH CONCRETE</u>				
	<u>Brush finish on Class B concrete with 1:200 fall towards catchpit recessed into slab:</u>				
19	On floors.	m2	1	55.00	55.00
	<u>HIGH BUILD EPOXY FLOOR FINISH</u>				
	<u>Apply multi component, solvent free, pigmented self leveling hi-build epoxy floor coating to mechanically sound screed. Screed to have timber floated finish, have been laid a minimum of 28 days prior to application of epoxy coating, have a moisture content of less than 5% and be acid etched prior to application of first coat. Application is to be carried out by a specialist sub contractor approved by the supplier of the epoxy coating. Screed to be checked for moisture content prior to application and confirmation of receipt of this to be supplied to the architects before any epoxy coatings are applied. Fill all defects in screed using scraper coat as specified by the epoxy coating manufacturer. Apply one coat primer as required by epoxy supplier. Over coat with one coat hi-build, self leveling epoxy to give finished coat thickness of 3mm:</u>				
20	On floors.	m2	1	250.00	250.00
	<u>NON SLIP EPOXY FLOOR FINISH</u>				
	<u>Apply multi component, solvent free, pigmented self leveling hi-build epoxy floor coating to mechanically sound screed. Screed to have timber floated finish, have been laid a minimum of 28 days prior to application of epoxy coating, have a moisture content of less than 5% and be acid etched prior to application of first coat. Application is to be carried out by a specialist sub contractor approved by the supplier of the epoxy coating. Screed to be checked for moisture content prior to application and confirmation of receipt of this to be supplied to the architects before any epoxy coatings are applied. Fill all defects in screed using scraper coat as specified by the epoxy coating manufacturer. Apply one coat primer as required by epoxy supplier. Over coat with one coat hi-build, self leveling epoxy to give finished coat thickness of 3mm followed by a non-slip topcoat comprising of clean sifted silica sand over coated with pigmented epoxy resin. Application to be by specialist epoxy coating subcontractor:</u>				
21	On floors.	m2	1	295.00	295.00
	<u>Prepare and apply ROBEX RX FOODSAFE or similar approved - Anti-Bacterial and hygienic heavy duty waterproofing membrane or other approved epoxy mortar screed at a nominal thickness of 6mm including a non-slip finish to screed. Colour as per Architec spec.</u>				
22	On screeded to floors	m2	1	240.00	240.00
	<u>Prepare and apply ROBEX RX PROTADECK or similar approved - Highly Elastic heavy duty waterproofing membrane or other approved epoxy mortar screed at a nominal thickness of 6mm including a non-slip finish to . (Colour as per Architec spec).</u>				

23	On screeded to floors	m2	1	270.00	270.00
24	On existing floors including all necessary preparation	m2	1	230.00	230.00
	<u>INSULATION</u>				
	<u>Rigboard Insulation comprising of closed cell with thermal conductivity 0.025W/m or less. The insulation to have density 34kg/m3.</u>				
25	On powerfolated floors to recieve underfloor heating.	m2	1	70.00	70.00
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork:</u>				
26	On walls.	m2	1	75.00	75.00
27	In narrow widths.	m2	1	75.00	75.00
	<u>Cement plaster on concrete</u>				
28	On walls	m2	1	80.00	80.00
29	On ceilings	m2	1	80.00	80.00
30	On raking soffits of stairs	m2	1	80.00	80.00
31	On narrow widths	m2	1	80.00	80.00
	<u>Gypsum skim plaster on concrete</u>				
32	On ceilings	m2	1	75.00	75.00
	<u>Two coat plaster with gypsum finish on brickwork</u>				
33	On walls	m2	1	70.00	70.00
34	On narrow widths	m2	1	75.00	75.00
	<u>EXTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork:</u>				
35	On walls.	m2	1	90.00	90.00
36	In narrow widths.	m2	1	90.00	90.00
37	Sills 330mm girth with sloping top, edge and projecting soffit	m	1	40.00	40.00
	<u>Cement plaster on concrete</u>				
38	Edges exceeding 300mm high	m2	1	96.00	96.00
39	Edges exceeding 300mm high circular on plan exceeding 1m radius	m2	1	96.00	96.00
40	On ceilings	m2	1	96.00	96.00
	<u>University plaster finish on brickwork</u>				
41	On external cavity walls	m2	1	90.00	90.00
42	On external battered walls	m2	1	90.00	90.00
	<u>University plaster finish on concrete</u>				
43	On staircase walls	m2	1	96.00	96.00
	<u>SPECIALIST PLASTER WALL COVERINGS</u>				
	<u>2mm Thick PVC resin bonded coating with a steel trowel finish on plaster, including priming etc. applied in strict accordance with the manufacturers instructions:</u>				
44	On walls.	m2	1	90.00	90.00
45	On narrow widths.	m2	1	90.00	90.00
	<u>AIR GRATINGS</u>				
46	235 x 157mm Cast plaster or white plastic plain pattern air grating fixed flush with plaster face	No	1	60.00	60.00
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
47	25 x 3mm Brass Dividing strips Straight edge trim	m	1	155.00	155.00
48	Stainless steel edge trim Dividing strip, code SQE100 10mm x 8mm (for 8-9mm thick tiles) to all exposed tiles, edges, and window revelas.	m	1	155.00	155.00
49	90mm x 90mm, 1.5mm thick 304 Grade Stainless Steel Corner protectors (90°) in Satin finish supplied with pre-drilled holes.	m	1	155.00	155.00
	Carried to Final Summary				
					R 6,158.00

BILL NO. 16**TLING****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Fixing:

Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere.

WALL TILING**Allow the prime cost amount of R100/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:**

1	On smooth plastered walls.	m2	1	242.00	242.00
2	Ditto, on narrow widths.	m2	1	252.00	252.00
3	On vertical surfaces	m2	1	242.00	242.00
4	On vertical surfaces circular	m2	1	252.00	252.00
5	On walls circular exceeding 300mm radius	m2	1	252.00	252.00
6	On walls in isolated panels, splashbacks, etc.	m2	1	252.00	252.00

Allow the prime cost amount of R150/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:

7	On smooth plastered walls.	m2	1	297.00	297.00
8	Ditto, on narrow widths.	m2	1	307.00	307.00
9	On vertical surfaces	m2	1	297.00	297.00
10	On vertical surfaces circular	m2	1	307.00	307.00
11	On walls circular exceeding 300mm radius	m2	1	307.00	307.00
12	On walls in isolated panels, splashbacks, etc.	m2	1	307.00	307.00

Allow the prime cost amount of R200/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:

13	On smooth plastered walls.	m2	1	352.00	352.00
14	Ditto, on narrow widths.	m2	1	362.00	362.00
15	On vertical surfaces	m2	1	352.00	352.00
16	On vertical surfaces circular	m2	1	362.00	362.00
17	On walls circular exceeding 300mm radius	m2	1	362.00	362.00
18	On walls in isolated panels, splashbacks, etc.	m2	1	362.00	362.00

Allow the prime cost amount of R250/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:

19	On smooth plastered walls.	m2	1	407.00	407.00
20	Ditto, on narrow widths.	m2	1	417.00	417.00
21	On vertical surfaces	m2	1	407.00	407.00
22	On vertical surfaces circular	m2	1	417.00	417.00
23	On walls circular exceeding 300mm radius	m2	1	417.00	417.00
24	On walls in isolated panels, splashbacks, etc.	m2	1	417.00	417.00

	<u>Allow the prime cost amount of R300/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
25	On smooth plastered walls.	m2	1	462.00	462.00
26	Ditto, on narrow widths.	m2	1	472.00	472.00
27	On vertical surfaces	m2	1	462.00	462.00
28	On vertical surfaces circular	m2	1	472.00	472.00
29	On walls circular exceeding 300mm radius	m2	1	472.00	472.00
30	On walls in isolated panels, splashbacks, etc.	m2	1	472.00	472.00
	<u>Allow the prime cost amount of R350/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
31	On smooth plastered walls.	m2	1	517.00	517.00
32	Ditto, on narrow widths.	m2	1	527.00	527.00
33	On vertical surfaces	m2	1	517.00	517.00
34	On vertical surfaces circular	m2	1	527.00	527.00
35	On walls circular exceeding 300mm radius	m2	1	527.00	527.00
36	On walls in isolated panels, splashbacks, etc.	m2	1	527.00	527.00
	<u>Allow the prime cost amount of R400/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
37	On smooth plastered walls.	m2	1	572.00	572.00
38	Ditto, on narrow widths.	m2	1	582.00	582.00
39	On vertical surfaces	m2	1	572.00	572.00
40	On vertical surfaces circular	m2	1	582.00	582.00
41	On walls circular exceeding 300mm radius	m2	1	582.00	582.00
42	On walls in isolated panels, splashbacks, etc.	m2	1	582.00	582.00
	<u>Allow the prime cost amount of R450/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
43	On smooth plastered walls.	m2	1	627.00	627.00
44	Ditto, on narrow widths.	m2	1	637.00	637.00
45	On vertical surfaces	m2	1	627.00	627.00
46	On vertical surfaces circular	m2	1	637.00	637.00
47	On walls circular exceeding 300mm radius	m2	1	637.00	637.00
48	On walls in isolated panels, splashbacks, etc.	m2	1	637.00	637.00
	<u>Allow the prime cost amount of R500/m2 for ceramic wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
49	On smooth plastered walls.	m2	1	682.00	682.00
50	Ditto, on narrow widths.	m2	1	692.00	692.00
51	On vertical surfaces	m2	1	682.00	682.00
52	On vertical surfaces circular	m2	1	692.00	692.00
53	On walls circular exceeding 300mm radius	m2	1	692.00	692.00
54	On walls in isolated panels, splashbacks, etc.	m2	1	692.00	692.00
	<u>Allow the prime cost amount of R100/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
55	On smooth plastered walls.	m2	1	242.00	242.00
56	Ditto, on narrow widths.	m2	1	252.00	252.00
57	On vertical surfaces	m2	1	242.00	242.00
58	On vertical surfaces circular	m2	1	252.00	252.00
59	On walls circular exceeding 300mm radius	m2	1	252.00	252.00
60	On walls in isolated panels, splashbacks, etc.	m2	1	252.00	252.00

	<u>Allow the prime cost amount of R150/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
61	On smooth plastered walls.	m2	1	297.00	297.00
62	Ditto, on narrow widths.	m2	1	307.00	307.00
63	On vertical surfaces	m2	1	297.00	297.00
64	On vertical surfaces circular	m2	1	307.00	307.00
65	On walls circular exceeding 300mm radius	m2	1	307.00	307.00
66	On walls in isolated panels, splashbacks, etc.	m2	1	307.00	307.00
	<u>Allow the prime cost amount of R200/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
67	On smooth plastered walls.	m2	1	352.00	352.00
68	Ditto, on narrow widths.	m2	1	362.00	362.00
69	On vertical surfaces	m2	1	352.00	352.00
70	On vertical surfaces circular	m2	1	362.00	362.00
71	On walls circular exceeding 300mm radius	m2	1	362.00	362.00
72	On walls in isolated panels, splashbacks, etc.	m2	1	362.00	362.00
	<u>Allow the prime cost amount of R250/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
73	On smooth plastered walls.	m2	1	407.00	407.00
74	Ditto, on narrow widths.	m2	1	417.00	417.00
75	On vertical surfaces	m2	1	407.00	407.00
76	On vertical surfaces circular	m2	1	417.00	417.00
77	On walls circular exceeding 300mm radius	m2	1	417.00	417.00
78	On walls in isolated panels, splashbacks, etc.	m2	1	417.00	417.00
	<u>Allow the prime cost amount of R300/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
79	On smooth plastered walls.	m2	1	462.00	462.00
80	Ditto, on narrow widths.	m2	1	472.00	472.00
81	On vertical surfaces	m2	1	462.00	462.00
82	On vertical surfaces circular	m2	1	472.00	472.00
83	On walls circular exceeding 300mm radius	m2	1	472.00	472.00
84	On walls in isolated panels, splashbacks, etc.	m2	1	472.00	472.00
	<u>Allow the prime cost amount of R350/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
85	On smooth plastered walls.	m2	1	517.00	517.00
86	Ditto, on narrow widths.	m2	1	527.00	527.00
87	On vertical surfaces	m2	1	517.00	517.00
88	On vertical surfaces circular	m2	1	527.00	527.00
89	On walls circular exceeding 300mm radius	m2	1	527.00	527.00
90	On walls in isolated panels, splashbacks, etc.	m2	1	527.00	527.00
	<u>Allow the prime cost amount of R400/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>				
91	On smooth plastered walls.	m2	1	572.00	572.00
92	Ditto, on narrow widths.	m2	1	582.00	582.00
93	On vertical surfaces	m2	1	572.00	572.00
94	On vertical surfaces circular	m2	1	582.00	582.00
95	On walls circular exceeding 300mm radius	m2	1	582.00	582.00

96	On walls in isolated panels, splashbacks, etc.	m2	1	582.00	582.00
<u>Allow the prime cost amount of R450/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>					
97	On smooth plastered walls.	m2	1	627.00	627.00
98	Ditto, on narrow widths.	m2	1	637.00	637.00
99	On vertical surfaces	m2	1	627.00	627.00
100	On vertical surfaces circular	m2	1	637.00	637.00
101	On walls circular exceeding 300mm radius	m2	1	637.00	637.00
102	On walls in isolated panels, splashbacks, etc.	m2	1	637.00	637.00
<u>Allow the prime cost amount of R500/m2 for porcelain wall tiles, with 6mm straight joints fixed with approved tile adhesive and grout, all to Manufacturer's recommendations:</u>					
103	On smooth plastered walls.	m2	1	682.00	682.00
104	Ditto, on narrow widths.	m2	1	692.00	692.00
105	On vertical surfaces	m2	1	682.00	682.00
106	On vertical surfaces circular	m2	1	692.00	692.00
107	On walls circular exceeding 300mm radius	m2	1	692.00	692.00
108	On walls in isolated panels, splashbacks, etc.	m2	1	692.00	692.00
FLOOR TILING					
<u>Allow the prime cost amount of R100.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
109	On floors	m2	1	242.00	242.00
110	On horizontal top surfaces	m2	1	242.00	242.00
111	On vertical surfaces	m2	1	242.00	242.00
112	On horizontal surfaces to falls	m2	1	242.00	242.00
113	On horizontal surfaces to falls and currents	m2	1	242.00	242.00
114	On treads and risers of stairs	m2	1	242.00	242.00
115	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	65.00	65.00
116	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	135.00	135.00
117	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	238.00	238.00
<u>Allow the prime cost amount of R150.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
118	On floors	m2	1	297.00	297.00
119	On horizontal top surfaces	m2	1	297.00	297.00
120	On vertical surfaces	m2	1	297.00	297.00
121	On horizontal surfaces to falls	m2	1	297.00	297.00
122	On horizontal surfaces to falls and currents	m2	1	297.00	297.00
123	On treads and risers of stairs	m2	1	297.00	297.00
124	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	75.00	75.00
125	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	150.00	150.00
126	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	250.00	250.00
<u>Allow the prime cost amount of R200.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
127	On floors	m2	1	352.00	352.00
128	On horizontal top surfaces	m2	1	352.00	352.00

129	On vertical surfaces	m2	1	352.00	352.00
130	On horizontal surfaces to falls	m2	1	352.00	352.00
131	On horizontal surfaces to falls and currents	m2	1	352.00	352.00
132	On treads and risers of stairs	m2	1	352.00	352.00
133	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	78.00	78.00
134	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	159.00	159.00
135	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	254.00	254.00
<u>Allow the prime cost amount of R250.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
136	On floors	m2	1	407.00	407.00
137	On horizontal top surfaces	m2	1	407.00	407.00
138	On vertical surfaces	m2	1	407.00	407.00
139	On horizontal surfaces to falls	m2	1	407.00	407.00
140	On horizontal surfaces to falls and currents	m2	1	407.00	407.00
141	On treads and risers of stairs	m2	1	407.00	407.00
142	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	83.00	83.00
143	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	165.00	165.00
144	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	260.00	260.00
<u>Allow the prime cost amount of R300.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
145	On floors	m2	1	462.00	462.00
146	On horizontal top surfaces	m2	1	462.00	462.00
147	On vertical surfaces	m2	1	462.00	462.00
148	On horizontal surfaces to falls	m2	1	462.00	462.00
149	On horizontal surfaces to falls and currents	m2	1	462.00	462.00
150	On treads and risers of stairs	m2	1	462.00	462.00
151	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	87.00	87.00
152	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	169.00	169.00
153	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	266.00	266.00
<u>Allow the prime cost amount of R350.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
154	On floors	m2	1	517.00	517.00
155	On horizontal top surfaces	m2	1	517.00	517.00
156	On vertical surfaces	m2	1	517.00	517.00
157	On horizontal surfaces to falls	m2	1	517.00	517.00
158	On horizontal surfaces to falls and currents	m2	1	517.00	517.00
159	On treads and risers of stairs	m2	1	517.00	517.00
160	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	92.00	92.00
161	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	175.00	175.00
162	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	272.00	272.00
<u>Allow the prime cost amount of R400.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
163	On floors	m2	1	572.00	572.00

164	On horizontal top surfaces	m2	1	572.00	572.00
165	On vertical surfaces	m2	1	572.00	572.00
166	On horizontal surfaces to falls	m2	1	572.00	572.00
167	On horizontal surfaces to falls and currents	m2	1	572.00	572.00
168	On treads and risers of stairs	m2	1	572.00	572.00
169	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	97.00	97.00
170	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	182.00	182.00
171	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	278.00	278.00
<u>Allow the prime cost amount of R450.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
172	On floors	m2	1	627.00	627.00
173	On horizontal top surfaces	m2	1	627.00	627.00
174	On vertical surfaces	m2	1	627.00	627.00
175	On horizontal surfaces to falls	m2	1	627.00	627.00
176	On horizontal surfaces to falls and currents	m2	1	627.00	627.00
177	On treads and risers of stairs	m2	1	627.00	627.00
178	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	105.00	105.00
179	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	187.00	187.00
180	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	285.00	285.00
<u>Allow the prime cost amount of R500.00/m2 for ceramic floor tiles "TAL" or other equal Architect approved with a m.o.h.s. of at least 7 on screed with a minimum 3 mm joints using quick setting high strength gray powder adhesive. Surfaces to be tiled are to be primed before tiling using a cement slurry mixed using liquid latex:</u>					
181	On floors	m2	1	682.00	682.00
182	On horizontal top surfaces	m2	1	682.00	682.00
183	On vertical surfaces	m2	1	682.00	682.00
184	On horizontal surfaces to falls	m2	1	682.00	682.00
185	On horizontal surfaces to falls and currents	m2	1	682.00	682.00
186	On treads and risers of stairs	m2	1	682.00	682.00
187	70mm high ceramic glazed tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	112.00	112.00
188	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	194.00	194.00
189	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	293.00	293.00
<u>Allow the prime cost amount of R100.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>					
190	On floors	m2	1	242.00	242.00
191	On horizontal top surfaces	m2	1	242.00	242.00
192	On vertical surfaces	m2	1	242.00	242.00
193	On horizontal surfaces to falls	m2	1	242.00	242.00
194	On horizontal surfaces to falls and currents	m2	1	242.00	242.00
195	On treads and risers of stairs	m2	1	242.00	242.00
196	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	65.00	65.00
197	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	135.00	135.00
198	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	238.00	238.00

	<u>Allow the prime cost amount of R150.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>				
199	On floors	m2	1	297.00	297.00
200	On horizontal top surfaces	m2	1	297.00	297.00
201	On vertical surfaces	m2	1	297.00	297.00
202	On horizontal surfaces to falls	m2	1	297.00	297.00
203	On horizontal surfaces to falls and currents	m2	1	297.00	297.00
204	On treads and risers of stairs	m2	1	297.00	297.00
205	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	75.00	75.00
206	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	150.00	150.00
207	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	250.00	250.00
	<u>Allow the prime cost amount of R200.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>				
208	On floors	m2	1	352.00	352.00
209	On horizontal top surfaces	m2	1	352.00	352.00
210	On vertical surfaces	m2	1	352.00	352.00
211	On horizontal surfaces to falls	m2	1	352.00	352.00
212	On horizontal surfaces to falls and currents	m2	1	352.00	352.00
213	On treads and risers of stairs	m2	1	352.00	352.00
214	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	78.00	78.00
215	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	159.00	159.00
216	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	254.00	254.00
	<u>Allow the prime cost amount of R250.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>				
217	On floors	m2	1	407.00	407.00
218	On horizontal top surfaces	m2	1	407.00	407.00
219	On vertical surfaces	m2	1	407.00	407.00
220	On horizontal surfaces to falls	m2	1	407.00	407.00
221	On horizontal surfaces to falls and currents	m2	1	407.00	407.00
222	On treads and risers of stairs	m2	1	407.00	407.00
223	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	83.00	83.00
224	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	165.00	165.00
225	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	260.00	260.00
	<u>Allow the prime cost amount of R300.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>				
226	On floors	m2	1	462.00	462.00
227	On horizontal top surfaces	m2	1	462.00	462.00
228	On vertical surfaces	m2	1	462.00	462.00
229	On horizontal surfaces to falls	m2	1	462.00	462.00
230	On horizontal surfaces to falls and currents	m2	1	462.00	462.00
231	On treads and risers of stairs	m2	1	462.00	462.00
232	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	87.00	87.00
233	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	169.00	169.00
234	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	266.00	266.00
	<u>Allow the prime cost amount of R350.00/m2 for porcelain tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>				
235	On floors	m2	1	517.00	517.00

236	On horizontal top surfaces	m2	1	517.00	517.00
237	On vertical surfaces	m2	1	517.00	517.00
238	On horizontal surfaces to falls	m2	1	517.00	517.00
239	On horizontal surfaces to falls and currents	m2	1	517.00	517.00
240	On treads and risers of stairs	m2	1	517.00	517.00
241	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	92.00	92.00
242	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	175.00	175.00
243	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	272.00	272.00
<u>Allow the prime cost amount of R400.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>					
244	On floors	m2	1	572.00	572.00
245	On horizontal top surfaces	m2	1	572.00	572.00
246	On vertical surfaces	m2	1	572.00	572.00
247	On horizontal surfaces to falls	m2	1	572.00	572.00
248	On horizontal surfaces to falls and currents	m2	1	572.00	572.00
249	On treads and risers of stairs	m2	1	572.00	572.00
250	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	97.00	97.00
251	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	182.00	182.00
252	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	278.00	278.00
<u>Allow the prime cost amount of R450.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>					
253	On floors	m2	1	627.00	627.00
254	On horizontal top surfaces	m2	1	627.00	627.00
255	On vertical surfaces	m2	1	627.00	627.00
256	On horizontal surfaces to falls	m2	1	627.00	627.00
257	On horizontal surfaces to falls and currents	m2	1	627.00	627.00
258	On treads and risers of stairs	m2	1	627.00	627.00
259	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	105.00	105.00
260	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	187.00	187.00
261	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	285.00	285.00
<u>Allow the prime cost amount of R500.00/m2 for porcelain floor tiles, with 6mm straight joints fixed tile adhesive and tile grout as per Manufacturer's recommendations:</u>					
262	On floors	m2	1	682.00	682.00
263	On horizontal top surfaces	m2	1	682.00	682.00
264	On vertical surfaces	m2	1	682.00	682.00
265	On horizontal surfaces to falls	m2	1	682.00	682.00
266	On horizontal surfaces to falls and currents	m2	1	682.00	682.00
267	On treads and risers of stairs	m2	1	682.00	682.00
268	70mm high porcelain tile to match floor set into plaster so that face of tile level with finished plaster.	m	1	112.00	112.00
269	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter.	No	1	194.00	194.00
270	Fair exposed cutting and fitting around pipe exceeding 50mm and not exceeding 100mm internal diameter.	No	1	293.00	293.00
<u>Allow the prime cost amount of R200/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>					
271	On floors	m2	1	374.00	374.00
272	On treads and risers of stairs	m2	1	374.00	374.00
273	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	115.00	115.00

	<u>Allow the prime cost amount of R300/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
274	On floors	m2	1	484.00	484.00
275	On treads and risers of stairs	m2	1	484.00	484.00
276	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	120.00	120.00
	<u>Allow the prime cost amount of R350/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
277	On floors	m2	1	539.00	539.00
278	On treads and risers of stairs	m2	1	539.00	539.00
279	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	125.00	125.00
	<u>Allow the prime cost amount of R400/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
280	On floors	m2	1	594.00	594.00
281	On treads and risers of stairs	m2	1	594.00	594.00
282	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	130.00	130.00
	<u>Allow the prime cost amount of R450/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
283	On floors	m2	1	649.00	649.00
284	On treads and risers of stairs	m2	1	649.00	649.00
285	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	135.00	135.00
	<u>Allow the prime cost amount of R500/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
286	On floors	m2	1	704.00	704.00
287	On treads and risers of stairs	m2	1	704.00	704.00
288	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	140.00	140.00
	<u>Allow the prime cost amount of R550/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
289	On floors	m2	1	759.00	759.00
290	On treads and risers of stairs	m2	1	759.00	759.00
291	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	145.00	145.00
	<u>Allow the prime cost amount of R600/m2 for Terrazzo tiles with factory bevelled edges in selected colours all confirming to CKS208, laid to a true and even surface in 3:1 cement mortar screed ± 25mm thick (elsewhere measured) with a 4mm joint finished in a suitable blended matching tile grout:</u>				
292	On floors	m2	1	814.00	814.00
293	On treads and risers of stairs	m2	1	814.00	814.00
294	70mm high terrazzo tile skirting to match module and finish of adjacent floor finish.	m	1	150.00	150.00
	<u>QUARRY TILES</u>				
	<u>Allow the prime cost amount of R200.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
295	On floors	m2	1	374.00	374.00
296	On risers and treads	m2	1	374.00	374.00
297	Skirtings 70mm high to floors	m	1	115.00	115.00
	<u>Allow the prime cost amount of R300.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
298	On floors	m2	1	484.00	484.00
299	On risers and treads	m2	1	484.00	484.00
300	Skirtings 70mm high to floors	m	1	120.00	120.00

	Allow the prime cost amount of R350.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:				
301	On floors	m2	1	539.00	539.00
302	On risers and treads	m2	1	539.00	539.00
303	Skirtings 70mm high to floors	m	1	125.00	125.00
	<u>Allow the prime cost amount of R400.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
304	On floors	m2	1	594.00	594.00
305	On risers and treads	m2	1	594.00	594.00
306	Skirtings 70mm high to floors	m	1	130.00	130.00
	<u>Allow the prime cost amount of R450.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
307	On floors	m2	1	649.00	649.00
308	On risers and treads	m2	1	649.00	649.00
309	Skirtings 70mm high to floors	m	1	135.00	135.00
	<u>Allow the prime cost amount of R500.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
310	On floors	m2	1	704.00	704.00
311	On risers and treads	m2	1	704.00	704.00
312	Skirtings 70mm high to floors	m	1	140.00	140.00
	<u>Allow the prime cost amount of R550.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
313	On floors	m2	1	759.00	759.00
314	On risers and treads	m2	1	759.00	759.00
315	Skirtings 70mm high to floors	m	1	145.00	145.00
	<u>Allow the prime cost amount of R600.00/m2 for quarry tiles laid on cement sand screed (elsewhere measured) with adhesive and grout as per Manufacturer's recommendation:</u>				
316	On floors	m2	1	814.00	814.00
317	On risers and treads	m2	1	814.00	814.00
318	Skirtings 70mm high to floors	m	1	150.00	150.00
	<u>Allow the prime cost amount of R200.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
319	On floors	m2	1	374.00	374.00
320	On risers and treads	m2	1	374.00	374.00
321	Skirtings 70mm high to floors	m	1	115.00	115.00
	<u>Allow the prime cost amount of R300.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
322	On floors	m2	1	484.00	484.00
323	On risers and treads	m2	1	484.00	484.00
324	Skirtings 70mm high to floors	m	1	120.00	120.00
	<u>Allow the prime cost amount of R350.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
325	On floors	m2	1	539.00	539.00
326	On risers and treads	m2	1	539.00	539.00
327	Skirtings 70mm high to floors	m	1	125.00	125.00
	<u>Allow the prime cost amount of R400.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
328	On floors	m2	1	594.00	594.00
329	On risers and treads	m2	1	594.00	594.00

330	Skirtings 70mm high to floors	m	1	130.00	130.00
	<u>Allow the prime cost amount of R450.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
331	On floors	m2	1	649.00	649.00
332	On risers and treads	m2	1	649.00	649.00
333	Skirtings 70mm high to floors	m	1	135.00	135.00
	<u>Allow the prime cost amount of R500.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
334	On floors	m2	1	704.00	704.00
335	On risers and treads	m2	1	704.00	704.00
336	Skirtings 70mm high to floors	m	1	140.00	140.00
	<u>Allow the prime cost amount of R550.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
337	On floors	m2	1	759.00	759.00
338	On risers and treads	m2	1	759.00	759.00
339	Skirtings 70mm high to floors	m	1	145.00	145.00
	<u>Allow the prime cost amount of R600.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout as per Manufacturer's recommendation:</u>				
340	On floors	m2	1	814.00	814.00
341	On risers and treads	m2	1	814.00	814.00
342	Skirtings 70mm high to floors	m	1	150.00	150.00
	<u>Allow the prime cost amount of R200.00/m2 for slate tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
343	On floors	m2	1	374.00	374.00
344	On risers and treads	m2	1	374.00	374.00
345	Skirtings 70mm high to floors	m	1	115.00	115.00
	<u>Allow the prime cost amount of R300.00/m2 for slate tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
346	On floors	m2	1	484.00	484.00
347	On risers and treads	m2	1	484.00	484.00
348	Skirtings 70mm high to floors	m	1	120.00	120.00
	<u>Allow the prime cost amount of R350.00/m2 for slate tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
349	On floors	m2	1	539.00	539.00
350	On risers and treads	m2	1	539.00	539.00
351	Skirtings 70mm high to floors	m	1	125.00	125.00
	<u>Allow the prime cost amount of R400.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
352	On floors	m2	1	594.00	594.00
353	On risers and treads	m2	1	594.00	594.00
354	Skirtings 70mm high to floors	m	1	130.00	130.00
	<u>Allow the prime cost amount of R450.00/m2 for granite tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
355	On floors	m2	1	649.00	649.00
356	On risers and treads	m2	1	649.00	649.00
357	Skirtings 70mm high to floors	m	1	135.00	135.00
	<u>Allow the prime cost amount of R500.00/m2 for slate tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
358	On floors	m2	1	704.00	704.00
359	On risers and treads	m2	1	704.00	704.00

360	Skirtings 70mm high to floors	m	1	140.00	140.00
	<u>Allow the prime cost amount of R550.00/m2 for slate tiles laid on cement sand screed (elsewhere measured) with adhesive and grout, all to Manufacturer's recommendation:</u>				
361	On floors	m2	1	759.00	759.00
362	On risers and treads	m2	1	759.00	759.00
363	Skirtings 70mm high to floors	m	1	145.00	145.00
	<u>Allow the prime cost amount of R600.00/m2 for slate tiles laid on cement sand screed (elsewhere measured) with adhesive and grout as per Manufacturer's recommendation:</u>				
364	On floors	m2	1	814.00	814.00
365	On risers and treads	m2	1	814.00	814.00
366	Skirtings 70mm high to floors	m	1	150.00	150.00
	<u>Mosaic tiles</u>				
367	On floors	m2	1	150.00	150.00
	<u>CORNER PROTECTORS, EDGE TRIMS, DIVIDINGSTRIPS, ETC.</u>				
	<u>"KIRK Marketing" similar approved</u>				
	<u>Stainless steel corner protectors, stair nosings, movement joint and expansion joint strips, etc</u>				
368	Type SQE120 Square edge trim.	m	1	130.00	130.00
	<u>TOILET PAPER HOLDERS, ETC.</u>				
	<u>Johnson or equal approved white glazed ceramic:</u>				
369	150 x 150mm Semi-recessed soap holder.	No	1	550.00	550.00
	Carried to Final Summary			R	154,330.00

BILL NO. 17**PLUMBING AND DRAINAGE (PROVISIONAL)****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.

Chasing:

Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing, wrapping in suitable bown paper and making good shall be included in the rates for pipes.

Holes for pipes through new walls:

No allowance for holes and drilling for pipes through new walls has been made in these bills of quantities, the price for all holes and making good shall be deemed to be included in the description of pipes.

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Description of pipes laid in trenches:

Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.

Excavations:

No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.

'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.

Laying, backfilling, bedding, etc of pipes:

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.

Flush pans:

Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.

Stainless steel basins, sinks, wash troughs, urinals, etc:

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.

Fixing:

Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.

Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.

Waste unions:

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

Sleeve pipes:

Electrical sleeve pipes to be Class 34 and are to include for draw wires.

	<u>RAINWATER DISPOSAL:</u>				
	<u>Seamless aluminium prepainted gutters and rainwater pipes</u>				
1	155 x 100 x 115mm Aluminium ogee roof gutters with baked enamel finish fixed with concealed brackets	m	1	175.00	175.00
2	100 x 75mm Box gutters with baked enamel finish with concealed brackets	m	1	155.00	155.00
3	100 x 100mm Box gutters with baked enamel finish with concealed brackets	m	1	165.00	165.00
4	125 x 150mm Box gutters with baked enamel finish with concealed brackets	m	1	165.00	165.00
5	150 x 100mm Box gutters with baked enamel finish with concealed brackets	m	1	170.00	170.00
6	150 x 150mm Box gutters with baked enamel finish with concealed brackets	m	1	175.00	175.00
7	200 x 150mm Box gutters with baked enamel finish with concealed brackets	m	1	180.00	180.00
8	200 x 200mm Box gutters with baked enamel finish with concealed brackets	m	1	185.00	185.00
9	300 x 200mm Box gutters with baked enamel finish with concealed brackets	m	1	190.00	190.00
10	Extra over gutter for stopped end	No	1	100.00	100.00
11	Extra over gutter for outlet	No	1	130.00	130.00
12	63mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	130.00	130.00
13	75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	135.00	135.00
14	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	145.00	145.00
15	125mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	155.00	155.00
16	150mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	175.00	175.00
17	75 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	145.00	145.00
18	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	150.00	150.00
19	100 x 100mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	155.00	155.00
20	150 x 150mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	166.00	166.00
21	100 x 75mm Ribbed and cranked white rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	166.00	166.00
22	Extra over rainwater pipe for bend	No	1	120.00	120.00
23	Extra over rainwater pipe for shoe	No	1	95.00	95.00
24	Extra over rainwater pipe for eaves or plinth offset 1 200mm projection	No	1	120.00	120.00
25	Fullbore	No	1	130.00	130.00
	<u>0.6mm Galvanised sheet steel gutters and rainwater pipes</u>				
26	150 x 125 x 152mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	185.00	185.00
27	100 x 75mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	165.00	165.00
28	100 x 100mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	175.00	175.00
29	100 x 125mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	175.00	175.00
30	150 x 100mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	180.00	180.00
31	150 x 150mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	190.00	190.00
32	200 x 150mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	195.00	195.00
33	200 x 200mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	195.00	195.00
34	125mm half round eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets	m	1	175.00	175.00
35	Extra over eaves gutter for stopped end	No	1	120.00	120.00
36	Extra over eaves gutter for outlet	No	1	120.00	120.00

37	63mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	130.00	130.00
38	75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	135.00	135.00
39	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	140.00	140.00
40	125mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	155.00	155.00
41	150mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	170.00	170.00
42	75 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	145.00	145.00
43	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres	m	1	150.00	150.00
44	100 x 100mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	160.00	160.00
45	150 x 150mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	170.00	170.00
46	Extra over rainwater pipe for bend	No	1	115.00	115.00
47	Extra over rainwater pipe for shoe	No	1	115.00	115.00
48	Extra over rainwater pipe for eaves or plinth offset 1 200mm projection	No	1	115.00	115.00
49	Fullbore	No	1	130.00	130.00
<u>0.6mm Galvanised sheet steel gutters and rainwater pipes with powder coated finish on outside</u>					
50	150 x 125 x 152mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	190.00	190.00
51	100 x 75mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	170.00	170.00
52	100 x 100mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	180.00	180.00
53	100 x 125mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets	m	1	180.00	180.00
54	150 x 100mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	185.00	185.00
55	150 x 150mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	190.00	190.00
56	200 x 150mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	195.00	195.00
57	200 x 200mm eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	1	200.00	200.00
58	125mm half round eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets	m	1	180.00	180.00
59	Extra over eaves gutter for stopped end	No	1	135.00	135.00
60	Extra over eaves gutter for outlet	No	1	135.00	135.00
61	63mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	145.00	145.00
62	75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	150.00	150.00
63	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	155.00	155.00
64	125mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	170.00	170.00
65	150mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	185.00	185.00
66	75 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	160.00	160.00
67	100 x 75mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres	m	1	166.00	166.00
68	100 x 100mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	175.00	175.00
69	150 x 150mm Rainwater pipes fixed to walls with and including approved holderbats at 900mm centres.	m	1	185.00	185.00
70	Extra over rainwater pipe for bend	No	1	120.00	120.00
71	Extra over rainwater pipe for shoe	No	1	120.00	120.00
72	Extra over rainwater pipe for eaves or plinth offset 1 200mm projection	No	1	120.00	120.00
73	Fullbore	No	1	140.00	140.00
<u>uPVC gutters and downpipes</u>					
74	125 x 75mm high gutters fixed to falls in continuous lengths at not exceeding 1000mm centres with and including approved gutter brackets.	m	1	130.00	130.00

75	125mm half round eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets	m	1	140.00	140.00
76	Extra over eaves gutter for stopped end	No	1	95.00	95.00
77	Extra over eaves gutter for outlet	No	1	95.00	95.00
78	63mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	120.00	120.00
79	75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	125.00	125.00
80	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	130.00	130.00
81	125mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	135.00	135.00
82	150mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	1	145.00	145.00
83	Extra over rainwater pipe for bend	No	1	95.00	95.00
84	Extra over rainwater pipe for shoe	No	1	85.00	85.00
85	Extra over rainwater pipe for eaves or plinth offset 1 200mm projection	No	1	95.00	95.00
86	Fullbore	No	1	150.00	150.00
	<u>PVC-U pipes</u>				
87	40mm Pipes	m	1	60.00	60.00
88	90mm Pipes	m	1	108.00	108.00
89	110mm Pipes	m	1	120.00	120.00
90	140mm Pipes	m	1	155.00	155.00
91	160mm Pipes	m	1	195.00	195.00
92	40mm Pipes laid in and including trenches not exceeding 1m deep	m	1	70.00	70.00
93	90mm Pipes laid in and including trenches not exceeding 1m deep	m	1	130.00	130.00
94	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1	140.00	140.00
95	140mm Pipes laid in and including trenches not exceeding 1m deep	m	1	180.00	180.00
96	160mm Pipes laid in and including trenches not exceeding 1m deep	m	1	230.00	230.00
	<u>Extra over PVC-U pipes for fittings</u>				
97	40mm BSP adaptor to cast iron	No	1	55.00	55.00
98	40mm Bend	No	1	50.00	50.00
99	40mm Long radius bend	No	1	52.00	52.00
100	40mm Junction	No	1	55.00	55.00
101	90mm Bend	No	1	95.00	95.00
102	90mm Junction	No	1	105.00	105.00
103	110mm BSP adaptor to cast iron	No	1	114.00	114.00
104	110mm Bend	No	1	125.00	125.00
105	110mm Long radius bend	No	1	130.00	130.00
106	110mm Junction	No	1	125.00	125.00
107	110mm Reducing junction	No	1	125.00	125.00
108	110mm Cast iron bend including adaptors	No	1	240.00	240.00
109	160mm BSP adaptor to cast iron	No	1	170.00	170.00
110	160mm Bend	No	1	195.00	195.00
111	160mm Long radius bend	No	1	150.00	150.00
112	160mm Junction	No	1	165.00	165.00
113	160mm Reducing junction	No	1	170.00	170.00
114	160mm Cast iron bend including adaptors	No	1	315.00	315.00
	<u>Cast iron pipes with SSN couplings</u>				
115	50mm Pipes	m	1	124.00	124.00

116	50mm Pipes suspended exceeding 2m and not exceeding 3m below concrete soffits	m	1	165.00	165.00
117	50mm Pipes suspended exceeding 3m and not exceeding 6m below steel roof trusses at 1500mm centres	m	1	190.00	190.00
118	50mm Pipes on purpose made supports (supports elsewhere)	m	1	124.00	124.00
119	50mm Pipes laid in and including trenches not exceeding 1m deep	m	1	180.00	180.00
120	100mm Pipes	m	1	260.00	260.00
121	100mm Pipes suspended exceeding 2m and not exceeding 3m below concrete soffits	m	1	305.00	305.00
122	100mm Pipes suspended exceeding 3m and not exceeding 6m below steel roof trusses at 1500mm centres	m	1	340.00	340.00
123	100mm Pipes on purpose made supports (supports elsewhere)	m	1	130.00	130.00
124	100mm Pipes laid in and including trenches not exceeding 1m deep	m	1	330.00	330.00
125	150mm Pipes	m	1	305.00	305.00
126	150mm Pipes suspended exceeding 2m and not exceeding 3m below concrete soffits	m	1	350.00	350.00
127	150mm Pipes suspended exceeding 3m and not exceeding 6m below steel roof trusses at 1500mm centres	m	1	390.00	390.00
128	150mm Pipes on purpose made supports (supports elsewhere)	m	1	310.00	310.00
129	150mm Pipes laid in and including trenches not exceeding 1m deep	m	1	360.00	360.00
130	200mm Pipes	m	1	380.00	380.00
131	200mm Pipes suspended exceeding 2m and not exceeding 3m below concrete soffits	m	1	425.00	425.00
132	200mm Pipes suspended exceeding 3m and not exceeding 6m below steel roof trusses at 1500mm centres	m	1	455.00	455.00
133	200mm Pipes on purpose made supports (supports elsewhere)	m	1	390.00	390.00
134	200mm Pipes laid in and including trenches not exceeding 1m deep	m	1	430.00	430.00
	<u>Extra over cast iron pipes with SSN couplings for fittings</u>				
135	50mm Junction	No	1	265.00	265.00
136	100mm Junction	No	1	370.00	370.00
137	150mm Junction	No	1	405.00	405.00
138	100mm Bend	No	1	365.00	365.00
139	150mm Bend	No	1	408.00	408.00
140	100mm Tee	No	1	365.00	365.00
141	150mm Tee	No	1	410.00	410.00
142	100mm Reducing junction	No	1	382.00	382.00
143	150mm Reducing junction	No	1	415.00	415.00
	<u>SUBSOIL DRAINAGE</u>				
144	Excavation in earth not exceeding 1m deep for pipe trenches	m3	1	70.00	70.00
145	Backfilling to pipe trenches	m3	1	80.00	80.00
146	19mm Crushed stone encasing to pipes	m3	1	360.00	360.00
147	Geofabric filter blanket wrapped around 300 x 300mm stone encasing with 50mm side and 50mm end laps, including stitching	m2	1	40.00	40.00
148	Geofabric filter blanket wrapped around 160mm external diameter agricultural pipes with 50mm side and 50mm end laps, including stitching	m	1	40.00	40.00
	<u>Slotted PVC-U flexible drainage pipes</u>				
149	110mm Pipes laid in stone encasing (encasing elsewhere)	m	1	170.00	170.00
	<u>Extra over slotted PVC-U flexible drainage pipes for fittings</u>				
150	110mm End cap	No	1	122.00	122.00
151	110mm Bend	No	1	110.00	110.00
152	110mm Junction	No	1	115.00	115.00

<u>SANITARY FITTINGS</u>					
<u>Vaal Sanitaryware or equal similar Architect approved</u>					
153	Vitreous China "Hibiscus" close coupled suite (code:772656) 90 degree outlet with Jazz double flap thermostet seat (code: 853120) or other equal Architect approved all installed in strict accordance with the manufacturer's instructions	No	1	5,200.00	5,200.00
154	Vitreous China 570 x 455mm "Weaver" rectangular surface mounted vanity basin with one taphole (code:704201). Mounted to wall using semi-concealed brackets (code:813122). Silicone sealer to be used where basin butts against wall or other equal Architect approved system. Installation to be done in strict accordance to the manufacturer's instructions	No	1	4,600.00	4,600.00
155	Vitreous China "Pearl" Paraplegic semi close coupled suite (code:7300SC) 90 degree outlet, "Hibiscus" basin (code: 7023), bolted to wall 10mm bolts (code: 8448Z0) and "Orchid" wooden seat (code:8520Z0) or other equal Architect approved system all installed in strict accordance to the manufacturer's instructions	No	1	7,296.75	7,296.75
156	Vitreous china 510 x 400mm semi-rectangular "Daisy" basin with three semi-punched tapholes (i.e. available in zero, one, two or three taphole configurations), integrated overflow, and chainstay hole through the centre semi-punched taphole. Available in white only.	No	1	4,600.00	4,600.00
157	Vitreous china 510 x 405mm rounded "Hibiscus" basin with three semi-punched tapholes (i.e. available in zero, one, two or three taphole configurations), integrated overflow, and chainstay hole through the centre semi-punched taphole.	No	1	4,700.00	4,700.00
158	Vitreous china "Orchid" top inlet (code 439100) 90° wall hung open rim pan. Top inlet can be used with exposed flush-valve.Vaal Sanitaryware duct cistern (code 7116DP) . Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Installation to include Flushmaster FJ2.210 or equivalent for top entry pan, DPI Flushfit, Marley SG47 pan collar or equivalent, Floor bracket (code 8082Z0) or bolt-through-the-wall bracket (code 8084Z0) and Alternative seats - Jazz double flap thermostet seat (code 8531Z0)	No	1	5,090.00	5,090.00
159	Vitreous china "Charisma" 90° outlet back inlet closed rim wall hung pan Product Code 439700, with quality thermostet soft-close seat. Installation to include Vaal Sanitaryware duct cistern (code 7116DP) or a concealed flushvalve. Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Installation to have Uniset 130 Skate Stainless steel control panel (code 439708) and Floor bracket (code 8082Z0)	No	1	8,200.00	8,200.00
160	Vitreous china "Entice" 90° outlet back inlet closed rim wall hung pan, with quality thermostet soft-close seat to be used with Vaal Sanitaryware duct cistern (code 7116DP). Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Installation to also include bolt-through-the-wall bracket (code 8084Z0) and DPI Flushfit pan collar	No	1	6,500.00	6,500.00
161	Vitreous china "Xtacy" 90° outlet back inlet closed rim wall hung pan, with quality thermostet soft-close seat to be used with Vaal Sanitaryware duct cistern (code 7116DP) . Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Installation to include Geberit Kombifix (code 8957Z0), Delta 15 stainless steel single flush vandal proof control panel (code 439202), bolt-through-the-wall bracket (code 8084Z0) DPI Flushfit pan collar all installed in strict accordance to manufacturer's instruction	No	1	5,950.00	5,950.00
162	Vitreous china "Energy" 90° outlet back inlet closed rim wall hung pan, with quality thermostet soft-close seat to be used with a Vaal Sanitaryware duct cistern (code 7116DP) . Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Accessories to include bolt-through-the-wall bracket(code 8084Z0), DPI Flushfit pan collar all installed in strict accordance to manufacturer's specification	No	1	5,950.00	5,950.00
163	Vitreous china "Parktown" 90° outlet top inlet (code 431500) closed rim back-to-wall pan to be used with an exposed flushvalve Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Accessories to include Flushmaster FJ2.000, with pan connector C-FM8.20 and offset flushpipe FJT5.7, DPI Flushfit, Marley SG47 pan collar or equivalent. Jazz thermostet toilet seat (code 8531Z0) and Wall fixing screws (code 8513Z0) all in strict accordance to manufacturer's instructions	No	1	5,200.00	5,200.00
164	Vitreous china "Charisma" 90° outlet back inlet closed rim back-to-wall pan, with quality thermostet soft-close seat and floor brackets to be used with a concealed cistern, Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Accessories to include Flush 120 Stainless steel control panel (code 431908)	No	1	5,100.00	5,100.00
165	Vitreous china "Entice" 90° outlet back inlet closed rim back-to-wall pan Product Code 431800, with quality thermostet soft-close seat and floor brackets to be used with a concealed cistern. Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Accesories to include Flush 120 Stainless steel control panel (code 431808)	No	1	5,100.00	5,100.00
166	Vitreous china 6 litre "Hibiscus Elite Duct" cistern (code 7116DP), complete with lid, fitments, push button mechanism, and duct flush pipe. Can be used with the Orchid back inlet, can be used with the Orchid Wall Hung back inlet pan, Parktown back inlet or any other back inlet pan. The cistern is designed to flush effectively on 6 litres subject to being installed with a pan providing an effective 6 litre flush	No	1	4,950.00	4,950.00
167	Vitreous china "Hibiscus Elite Vandal Proof " low level cistern (code 7116LV), complete with front push button, lid, fitments and low level flush pipe. The cistern is designed to flush effectively on 6 litres subject to being installed with a pan providing an effective 6 litre flush installation according to manufacturer's instruction.	No	1	5,200.00	5,200.00
168	Vitreous china "Concorde II" close coupled 90° outlet closed rim wash down pan and matching 6 litre top dual flush cistern complete with lid, fitments, quality thermostet soft-close seat and floor brackets. The suite is designed to flush effectively on 6/3 litres installation in strict accordance to manufacturer's instructions	No	1	5,050.00	5,050.00
169	Vitreous china "Tuscany" close coupled 90° outlet closed rim washdown pan (code 772800) and matching 7 litre pushbutton top dual flush cistern (code 7111DT) complete with lid and fitments. The suite is designed to flush effectively on 6/3 litres. Supplied with quality wooden seat (code 8515Z000). Installation in strict accordance to manufacturer's instruction	No	1	5,150.00	5,150.00

170	Vitreous china "Urban Compact" close coupled 90° outlet closed rim washdown pan and matching 6 litre top dual flush cistern complete with lid, fitments, quality thermostet soft-close seat and floor brackets. The suite is designed to flush effectively on 6/3 litres	No	1	4,800.00	4,800.00
171	Vitreous china "Daisy" semi-close coupled 90° outlet open rim washdown pan (code 751400) and matching 9 litre cistern (code 7116SC) complete with lid, fitments and flush pipe elbow. The suite is designed to flush effectively on 6 litres.	No	1	4,800.00	4,800.00
172	Vitreous china "City Compact" close coupled 90° outlet closed rim washdown pan and matching 6 litre top dual flush cistern complete with lid, fitments, quality thermostet soft-close seat and floor brackets. The suite is designed to flush effectively on 6/3 litres	No	1	4,900.00	4,900.00
173	Vitreous china "Quartz" close coupled 90° outlet closed rim washdown pan (code 772800) and matching 6 litre pushbutton top dual flush cistern (code 7116DT) complete with lid and fitments; supplied with quality wooden seat. (code 8515Z000). The suite is designed to flush effectively on 6/3 litres installation as per manufacturer's specifications	No	1	5,100.00	5,100.00
174	Vitreous china "Hibiscus Elite" close coupled 90° outlet open rim front single flush suite complete with lid and fitments (code 772402), or top dual flush suite (6/3 litres) (code 772401). Front flush suite available in standard colour range. The suite is designed to flush effectively on 6/3 litres	No	1	5,100.00	5,100.00
175	Vitreous china "Pearl Paraplegic" semi-close coupled 90° outlet open rim washdown pan and matching 9 litre cistern complete with lid, fitments, and purpose made C.P. side-flush lever (left or right). Supplied with purpose made thermostet seat and cover plate. The suite is designed to flush effectively on 6 litres as per manufacturer's instruction	No	1	5,600.00	5,600.00
176	Vitreous china "Orchid Paraplegic" back inlet (code 439016) 90° wall hung open rim pan. Pan can be used with a concealed cistern or with a suitable back inlet flush valve. Flush volume 6/3 litres, subject to the pan being installed with a cistern providing an effective 6/3 litre flush volume. Accessories to include Flushmaster FM1.100 with C-FM8.80 extension lever, or equivalent, Floor bracket (code 8082Z0), Jazz thermostet seat (code 8531Z0) or Buxton Sta-tite seat (Parker code 411-65533), DPI Flushfit, Marley SG47 pan collar or equivalent	No	1	5,600.00	5,600.00
177	Vitreous china "Protea Paraplegic" 90° outlet pan (code 750200) and matching 9 litre cistern (code 7116LP) complete with lid, fitments, and purpose-made C.P. side-flush lever (left or right) or a back inlet exposed flushvalve. Bottom inlet water supply must be on same side as flush lever. The suite is designed to flush effectively on 6 litre	No	1	5,600.00	5,600.00
178	Vitreous china "Klip" 104° outlet washdown pan with enlarged pedestal.(code 751200) Pan to be used with a Hibiscus Elegancia Low Level cistern (code 7373LL). The pan is designed to flush effectively on 6 litres.	No	1	5,100.00	5,100.00
179	Vitreous china "Junior" 104° outlet washdown pan (code 751300) and matching 6 litre cistern (code 7105SL) complete with lid and fitments, and Junior Jazz seat (code 8532Z000). The suite is designed to flush effectively on 6 litres.	No	1	4,500.00	4,500.00
180	Vitreous china "Aquasave" low level suite Product Code 750151 with a 90° outlet washdown pan and matching 6 litre B.I. cistern complete with lid, fitments and flushpipe.	No	1	4,950.00	4,950.00
181	Aquasave Slimline low level suite Product Code 750152, consisting of a vitreous china 90° outlet washdown pan and matching 6 litre SISO polypropylene top-flush cistern complete with lid, fitments and flushpipe	No	1	5,100.00	5,100.00
182	Vitreous china "Afsan" low level 90° outlet washdown pan. Pan can be used with an Hibiscus side inlet low level cistern (code 7105SL), a duct cistern (code 7116DP), a back inlet flush valve (FJ2.100 or equivalent), or a concealed cistern. The pan is designed to flush effectively on 4.5 litres subject to being installed with a cistern providing an effective 4.5 litre flush.	No	1	5,100.00	5,100.00
183	Vitreous china one-piece "Oriental" closed rim squat pan, with floor plate and integrated raised foot tread (code 502300), suitable for use with a 9 litre cistern (code 7373LL), plastic telescopic flushpipe and connector (code 5022Z1), or a back inlet flushvalve (FM 1.100 with 38mm flush pipe), and vitreous china Oriental p-trap (code 220100). The pan is designed to flush effectively on 6 litres subject to being installed with a cistern providing an effective 6 litre flush. Accessories to include Hose Bib Tap (Cobra code 107EC-15)), Trigger Spray (Cobra code 278245 SP) and Hook (Cobra code S-014)	No	1	5,200.00	5,200.00
184	Vitreous china "Orchid" close coupled 90° outlet wall hung open rim pan (code 438600) and matching 6 litre pushbutton top dual flush back inlet cistern (code 4386DT) complete with lid, fitments, Floor bracket (code 8082Z0) or bolt-through-the-wall bracket (code 8084Z0), DPI Flushfit, Marley SG47 pan collar or equivalent	No	1	5,100.00	5,100.00
185	Vitreous china "Elegancia Supreme" close coupled 90 degree outlet open rim top dual flush suite (6/3 litres) complete with lid and fitments (code 7373DT)	No	1	5,300.00	5,300.00
186	Vitreous china "Downtown" close coupled 90 degree outlet open rim top dual flush suite (6/3 litres) complete with lid and fitments (code 737331)	No	1	4,950.00	4,950.00
187	Orchid bolt-through-the-wall bracket Code 8084Z0	No	1	650.00	650.00
188	Orchid floor bracket Code 8082Z0	No	1	650.00	650.00
189	Vaal Sanitaryware high quality non-corrosive 6/3 litre dual flush Grohe concealed cistern (code 8962Z000) with Grohe inlet / outlet connector Code 8962Z100 for floor mounted applications.	No	1	1,350.00	1,350.00
190	Skate white control panel (code 8964Z000).	No	1	985.00	985.00
191	Skate chrome control panel (code 8963Z000)	No	1	985.00	985.00
192	Skate stainless steel control panel (code 8965Z000)	No	1	985.00	985.00
193	Nova chrome control panel (code 8967Z000)	No	1	960.00	960.00
194	Arena vertical chrome control panel (code 8968Z000)	No	1	960.00	960.00

195	Arena horizontal chrome control panel (code 89692000)	No	1	960.00	960.00
196	High quality non-corrosive 6/3 litre dual flush Grohe 80mm concealed cistern (code 89602000) with Grohe 90 / 110mm adaptor for wall hung pan applications.	No	1	970.00	970.00
197	Vitreous china wall hung "Lavatera" urinal with top inlet (code 705426) or back inlet (code 705427). Overall size 600 x 385 x 380 mm. Top inlet fittings (code 705421) and back inlet fittings (code 705422) include a 38 mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets. Unit to be installed with Concealed (back inlet) flushvalve (Cobra FJ8.102 or equivalent). Electronic top inlet valve (Cobra EL-3004 or equivalent).	No	1	5,400.00	5,400.00
198	Vitreous china wall hung "Sweetpea" urinal with top inlet (code 705126) or back inlet (code 705127). Overall size 565 x 275 x 310 mm. Top inlet fittings (code 705420) and back inlet fittings (code 705422) include a 38 mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets.	No	1	5,200.00	5,200.00
199	Vitreous china wall hung "Flatback" urinal. Overall size 415 x 315 x 275 mm. Supplied with 38mm c.p. domical grating (code 878720), c.p. top inlet spreader (code 854320), and two hanger brackets (code 812720).	No	1	5,100.00	5,100.00
200	Malaga back inlet electronic urinal with integrated sensor (code 512744 IV), including 38mm CP domical grating, spreader, 2 hanger brackets, valve flexi mini trap, angle stop valve and battery pack (no batteries included).	No	1	4,900.00	4,900.00
201	Trento back inlet electronic urinal with internal wall mounted sensor (code 542720IV), including 38mm CP domical grating, spreader, 2 hanger brackets, valve and battery pack (no batteries included).	No	1	5,900.00	5,900.00
202	Vitreous china wall hung "Lavatera" waterless urinal (code 705428), "Sweetpea" waterless (code 705027) and "Flatback" waterless urinal (code 705327). Supplied with waterless waste and two hanger brackets (code 812720).	No	1	5,850.00	5,850.00
203	Vitreous china "Urinal division" (code 705228WH), complete with fixing screw and hanger bracket. Suitable for use when Lavatera, Sweetpea or Flatback urinals are installed in ranges.	No	1	5,780.00	5,780.00
204	Vitreous china "Orchid" wall mounted over rim supply bidet (code 774301) with single taphole, mounted on either a floor bracket (code 808220), or bolt-through-the-wall bracket (code 808420).	No	1	5,950.00	5,950.00
205	Vitreous china "Concorde" one taphole over rim water supply pedestal bidet	No	1	6,020.00	6,020.00
206	Vitreous china "Charisma" one taphole over rim water supply pedestal bidet and floor brackets.	No	1	6,020.00	6,020.00
207	Vitreous china "Charisma" wall mounted over rim supply bidet (code 774202) with single taphole, mounted on either a floor bracket (code 808220), or bolt-through-the-wall bracket (code 808420).	No	1	6,020.00	6,020.00
208	Fine fireclay 630 x 500mm rectangular "Sola 630" medical basin with no tapholes, overflow or chainstay hole.	No	1	5,200.00	5,200.00
209	Daisy vitreous china wall mounted basin colour White (Code: 700803) with Classic floor mounted pedestal (Code: 715000), size 510 x 400mm with two tapholes, including integrated overflow and chainstay hole, bolted to wall with 2No.10mm bolts (Code: 844820) and sealed with silicone sealant where basin meets wall with Cobra Watertech Starpillar tap with flanged backnut (Code: 111-15), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).	No	1	4,500.00	4,500.00
210	Ceramic fireclay 585 x 435 mm "Hygia" hospital basin, including 1/4 turn wrist action mixer (code 837620), c.p. waste (code 879420), overflow tube (code 863020), two fixing screws, plugs and c.p. caps (code 851320). Supplied with two tapholes.	No	1	4,500.00	4,500.00
211	Ceramic fireclay 600 x 400 x 200 mm rectangular sink without overflow, with centre back waste outlet.	No	1	4,800.00	4,800.00
212	Vitreous china 510 x 400 mm semi-rectangular "Sola 510" medical basin with no tapholes, overflow or chainstay hole	No	1	5,200.00	5,200.00
213	Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet.	No	1	5,100.00	5,100.00
214	Ceramic fireclay 120 mm block channels Code 1500 Size 120 x 455 mm plain	No	1	320.00	320.00
215	Ceramic fireclay 120 mm block channels Code 1501 Size 120 x 455 mm plain with 75 mm centre outlet	No	1	320.00	320.00
216	Ceramic fireclay 120 mm block channels Code 1502 Size 120 x 455 mm stop end	No	1	400.00	400.00
217	Ceramic fireclay 120 mm block channels Code 1503 Size 120 x 455 mm stop end with 75 mm outlet	No	1	400.00	400.00
218	Ceramic fireclay 120 mm block channels Code1510 Size 120 mm 90° angle (two mitred 1500 channels)	No	1	420.00	420.00
219	Vitreous china single soap dish colour White (Code: 71511084), overall size 160 x 160 x 90mm deep, fixed in accordance with the manufacturer's recommendations.	No	1	600.00	600.00
220	Vitreous china double soap dish colour White (Code: 71511085), overall size 315 x 160 x 95mm deep, fixed in accordance with the manufacturer's recommendations.	No	1	710.00	710.00
221	Vitreous china toilet roll holder colour White (Code: 71511086), overall size 200 x 160mm, fixed in accordance with the manufacturer's recommendations.	No	1	550.00	550.00
<u>Vitreous china or equal Architect approved:</u>					
222	Cobra Sanitaryware - Vitreous Enamel wall mounted "Le Mans" urinal with back inlet with integral spreader and trap (code:WA-2214-000), Overall Size 325L x 320W x 575mmH.Cobra - Standard Flushmaster (code: KF8.112) Urinal Flushvalve, front access box, palm press, tailpipe, faceplate ball o stop Supplied with outlet trap, metal grating, hanger brackets or other equal Architect approved system installed in strict accordance with manufacturer's instructions.	No	1	5,800.00	5,800.00

223	Amber rounded basin Size 510 x 440mm with three semi-punched tapholes, three taphole configurations, integrated overflow and chainstay hole through the centre semi-punched taphole	No	1	4,600.00	4,600.00
224	Bantam basin Size 455 x 290mm with two semi-punched tapholes (i.e. available in zero, LHS, RHS or two taphole configurations), integrated overflow and chainstay hole	No	1	4,500.00	4,500.00
225	Ceramic fireclay 'Cameo' oval self rimming vanity basin Size 595 x 455mm, with three semi-punched tapholes, (i.e. available in zero, one, two or three taphole configurations) and chainstay hole through the centre semi-punched taphole. Supplied as standard without an overflow.	No	1	4,800.00	4,800.00
226	'Cardinal' rectangular vanity basin Size 470 x 360mm with integrated overflow.	No	1	4,800.00	4,800.00
227	Round 'Emerald' basin Size 415 x 500mm with one taphole and integrated overflow.	No	1	4,950.00	4,950.00
228	'Flamingo' semi-rectangular basin Size 560 x 405mm with three semi-punched tapholes, (i.e. available in zero, one, two or three taphole configurations), integrated overflow and chainstay hole through the centre semi-punched taphole.	No	1	4,950.00	4,950.00
229	'Iceberg' round self rimming drop-in vanity basin Size 420 x 420mm. Supplied as standard without overflow	No	1	4,750.00	4,750.00
230	'Kite' Corner basin Size 470 x 415mm with three semi-punched tapholes (i.e. available in zero, one, two or three taphole configurations), integrated overflow, and chainstay through the centre semi-punched taphole.	No	1	4,800.00	4,800.00
231	Rounded Lotus basin Size 635 x 485mm with three semi-punched tapholes, (i.e. available in zero, one, two or three taphole configurations), integrated overflow and chainstay hole though the centre semi-punched taphole.	No	1	5,100.00	5,100.00
232	'Oriele' rectangular surface mounted basin Size 495 x 410mm with one taphole and integrated overflow	No	1	4,800.00	4,800.00
233	'President' oval underslung vanity basin Size 580 x 410mm with integrated overflow. The basin has an unglazed contact surface area and is designed for fixing under vanity slab or in a bathroom cabinet using three or four hanger brackets.	No	1	4,900.00	4,900.00
234	'Quail' rectangular vanity basin Size 530 x 340mm with integrated overflow	No	1	4,820.00	4,820.00
235	Ceramic fireclay round surface mounted 'Savannah' vanity basin Size 410 x 410mm supplied as standard with overflow. Provision for 2 tapholes	No	1	4,700.00	4,700.00
236	'Savoy' round surface mounted basin Size 415 x 415mm with integrated overflow. No provision for tapholes.	No	1	4,700.00	4,700.00
237	'Snipe' rectangular vanity basin Size 510 x 380mm with integrated overflow.	No	1	4,900.00	4,900.00
238	'Tuscany 560' rectangular vanity basin Size 560 x 415mm with integrated overflow. No provision for tapholes.	No	1	4,950.00	4,950.00
239	'Weaver' rectangular surface mounted vanity basin Size 570 x 455mm available one taphole configurations.	No	1	4,900.00	4,900.00
240	Bath tub Size 1700 x 750 x 450mm depth (Volume 170 litres) with two chromium plated handles and all necessary accessories	No	1	5,600.00	5,600.00
'Franke (t/a Citimetal)' grade 304 (18/10) or equal Architect approved stainless steel catering ware:					
241	Left Hand Bowl: Trendline Drop-on Single Bowl Sink (code: 311850) size 1200L x 535Wmm unit to be manufactured from Austentic Stainless Steel with a Satin finish, and installed complete with 38mm PVC waste fitting and plug or other equal Architect approved.	No	1	4,850.00	4,850.00
242	Trendline Model 1500x535 DCB Grade 304 18/10 polished stainless steel double centre bowl drop on sink (Code: 312880), overall size 1500 x 535mm with two 343 x 410 x 146mm deep bowls, fitted onto cupboard (elsewhere specified) including Spazi F/2 plumbing kit (Code: 301251) with 38mm waste fitting, inset bin, one tube of Inox cream and 0,75 H.P. food waste disposer (Code: 303110), disposer fitted to sink and connected to 220 volt power supply.	No	1	4,900.00	4,900.00
243	Trendline Model 1200x535 DEB Grade 304 18/10 polished stainless steel double end bowl drop on sink (Code: 312081), overall size 1200 x 535mm with two 343 x 410 x 140mm deep bowls, fitted onto cupboard (elsewhere specified) including PVC traps (traps elsewhere specified) with 38mm waste fitting and one tube of Inox cream.	No	1	4,800.00	4,800.00
244	Trendline Model 1200x535 SCB Grade 304 18/10 polished stainless steel single centre bowl drop on sink (Code: 311671), overall size 1200 x 535mm with one 460 x 350 x 135mm deep, fitted onto cupboard (elsewhere specified) including Spazi F/1 plumbing kit (Code: 301151) with 38mm waste fitting and one tube of Inox cream.	No	1	4,800.00	4,800.00
245	Trendline Model 1000x460 SEB Grade 304 18/10 polished stainless steel single end bowl drop on sink (Code: 311050), overall size 1000 x 460mm with one 350 x 460 x 140mm deep bowl, fitted onto cupboard (elsewhere specified) including PVC trap (trap elsewhere specified) with 38mm waste fitting and one tube of Inox cream.	No	1	4,700.00	4,700.00
246	Trendline Model 800x460 SEB Grade 304 18/10 polished stainless steel single end bowl drop on sink (Code: 310331), overall size 800 x 460mm with one 340 x 370 x 140mm deep bowl, fitted onto cupboard (elsewhere specified) including PVC trap (trap elsewhere specified) with 38mm waste fitting, inset bin, one tube of Inox cream and 0,75 H.P. food waste disposer (Code: 303110), disposer fitted to sink and connected to 220 volt power supply. Sink to include Projectline Wall Mounted Single Lever mixer (Code: 303365) with overarm swivel spout. With 5 year guarantee on body construction.	No	1	4,500.00	4,500.00
247	Trendline Model 1200x535 SEB Grade 304 18/10 polished stainless steel single end bowl drop on sink (Code: 311850), overall size 1200 x 535mm with one 460 x 350 x 140mm deep bowl, fitted onto cupboard (elsewhere specified) including Spazi F/1 plumbing kit (Code: 301151) with 38mm waste fitting and one tube of Inox cream.	No	1	4,560.00	4,560.00

248	Model Oval V inset vanity basin , 590 x 375 x 160mm. Unit to be manufactured from a high grade austenitic Stainless Steel, 0,8mm gauge. Bowl size 490 x 275 x 160mm deep with 40mm waste outlet and overflow hole, tap ledge including a 32mm tap hole. The underside of the basin to include Stainless Steel lugs for mounting the unit to the worktop Product Code: 357457	No	1	5,100.00	5,100.00
249	Model Rondo 300 inset vanity basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel. Bowl size 300mm diameter x 154mm deep with 18mm flange or... 360mm diameter x 158mm deep with 12.5mm flange. Both with 40mm waste outlet and overflow hole. Basin to be fitted as an inset	No	1	5,200.00	5,200.00
250	Model Rondo 360 inset vanity basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel. Bowl size 300mm diameter x 154mm deep with 18mm flange or... 360mm diameter x 158mm deep with 12.5mm flange. Both with 40mm waste outlet and overflow hole. Basin to be fitted as an inset	No	1	5,600.00	5,600.00
251	Undermount Wash Hand Basin, 404 x 318 x 130mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,2mm gauge. Bowl size 360 x 280 x 130mm deep with a 22mm flanges all round and 40mm waste outlet. Product Code: 325304	No	1	5,750.00	5,750.00
252	Model Oval A Wash Hand Basins, 420 x 340 x 185mm deep. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,2mm gauge. Unit to include a one piece pressed bowl, 360 x 280 x 130mm deep with a 40mm waste outlet, with a 50mm splashback and 100mm radiused apron. Basin to be fixed to the wall with 4 x 6mm anchor bolts (bolts elsewhere measured). Product Code: 357456	No	1	5,830.00	5,830.00
253	Model Oval B Wash Hand Basins, 420 x 336 x 130mm deep. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,2mm gauge. Unit to include a one piece pressed bowl, 360 x 280 x 130mm deep with a 40mm waste outlet, with a 30mm splash back and 30mm radiused apron. Basin to be supplied with 20 x 20mm square mild steel (galvanised brackets) or Stainless Steel gallows brackets (optional, please specify). Basin to be fixed to the wall with 4 x 6mm anchor bolts (bolts elsewhere measured). Allow for two tap holes and 2 Brackets in Stainless Steel	No	1	5,830.00	5,830.00
254	Model FSWSB Heavy duty Surround Wall Mount Basin, available without splashback (Model FSWSB) 390 x 320 x 250mm OR with a 150mm splashback (Model FSWSB). Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1.2mm gauge in a satin finish. Unit to include a pressed bowl 360 x 320 x 130 mm deep with a 40mm waste outlet and a polished outer casing with a removable base plate. Basin to be supplied with two 25 x 6mm fixing brackets to secure the basin to the wall. Fixing bracket fixed to the wall with 4 x 6mm anchor bolts (bolts elsewhere measured).	No	1	6,050.00	6,050.00
255	Model WB001 Wash Hand Basin, 535 x 420 x 150mm deep. Unit to be manufactured from a high grade austenitic Stainless Steel, 0,8mm gauge. Basin to include a pressed bowl 410 x 300 x 140mm deep with a 40mm waste outlet and 32mm apron all round. Unit to be fixed to wall with pair of galvanised mild steel Eagle Brackets Franke Model Eagle Brackets 408 x 319mm to be manufactured from galvanised mild steel with two 6mm holes to secure the unit to the wall. (Bolts elsewhere measured) with Optional Tiling Key	No	1	5,700.00	5,700.00
256	Model STR02 Product Code 357162 Stratos Range of wash hand basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 3mm gauge (top) and bowls 1,2mm gauge. Size 360mm diameter x 150mm deep with 40mm waste outlets. Unit to be fixed to wall anchor bolts with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured)	No	1	5,500.00	5,500.00
257	Model STR03 Product 357161 Stratos Range of wash hand basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 3mm gauge (top) and bowls 1,2mm gauge. Size 360mm diameter x 150mm deep with 40mm waste outlets. Unit to be fixed to wall anchor bolts with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured)	No	1	5,400.00	5,400.00
258	Model CHR02 Product Code 356658 Chronos Ranges of wash Hand Basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm gauge (top) and bowls 1,2mm gauge. Size 360mm diameter x 150mm deep with 40mm waste outlets. Unit to include a radius to the front and 100mm apron all round to conceal the bowl and the plumbing. Unit to be fixed to wall using rawl bolts with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured)	No	1	5,200.00	5,200.00
259	Model CHR03 Product Code 356721 Chronos Ranges of wash Hand Basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm gauge (top) and bowls 1,2mm gauge. Size 360mm diameter x 150mm deep with 40mm waste outlets. Unit to include a radius to the front and 100mm apron all round to conceal the bowl and the plumbing. Unit to be fixed to wall using rawl bolts with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured)	No	1	5,200.00	5,200.00
260	Model CHR04 Product Code 356720 Chronos Ranges of wash Hand Basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm gauge (top) and bowls 1,2mm gauge. Size 360mm diameter x 150mm deep with 40mm waste outlets. Unit to include a radius to the front and 100mm apron all round to conceal the bowl and the plumbing. Unit to be fixed to wall using rawl bolts with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured)	No	1	5,200.00	5,200.00
261	Model FB18 Product Code 356659 Flat Bed Wash Hand Basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm gauge. Unit to include a 50mm deep trough like basin with 40mm waste outlets and 100mm apron all round. Basin to include outlets and tap holes evenly spaced and to be fixed to the wall with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured).	No	1	5,500.00	5,500.00
262	Model FB24 Product Code 357459 Flat Bed Wash Hand Basin. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm gauge. Unit to include a 50mm deep trough like basin with 40mm waste outlets and 100mm apron all round. Basin to include outlets and tap holes evenly spaced and to be fixed to the wall with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured).	No	1	5,500.00	5,500.00
263	Model WB002 Product Code 359350 wash hand basins Size 1012 x 430mm. Unit to be manufactured in Grade 304 (18/10) Stainless Steel, 0,9mm gauge with 25mm splashback and tiling key. Unit to include pressed bowls, 406 x 300 x 140mm deep with a 40mm waste outlets. Basin to be supplied with gallows brackets OR gallows brackets and front legs with adjustable foot piece (optional, please specify). Brackets to be fixed to the wall with anchor bolts (bolts elsewhere measured)	No	1	6,200.00	6,200.00

264	Model WB003 Product Code 359352 wash hand basins Size 1518 x 430mm. Unit to be manufactured in Grade 304 (18/10) Stainless Steel, 0,9mm gauge with 25mm splash back and tiling key. Unit to include pressed bowls, 406 x 300 x 140mm deep with a 40mm waste outlets. Basin to be supplied with gallows brackets OR gallows brackets and front legs with adjustable foot piece (optional, please specify). Brackets to be fixed to the wall with anchor bolts (bolts elsewhere measured)	No	1	6,340.00	6,340.00
265	Model WB004 Product Code 359354 wash hand basins Size 2024 x 430mm. Unit to be manufactured in Grade 304 (18/10) Stainless Steel, 0,9mm gauge with 25mm splashback and tiling key. Unit to include pressed bowls, 406 x 300 x 140mm deep with a 40mm waste outlets. Basin to be supplied with gallows brackets OR gallows brackets and front legs with adjustable foot piece (optional, please specify). Brackets to be fixed to the wall with anchor bolts (bolts elsewhere measured)	No	1	6,800.00	6,800.00
266	Model WB005 Product Code 359356 wash hand basins Size 2530 x 430mm. Unit to be manufactured in Grade 304 (18/10) Stainless Steel, 0,9mm gauge with 25mm splashback and tiling key. Unit to include pressed bowls, 406 x 300 x 140mm deep with a 40mm waste outlets. Basin to be supplied with gallows brackets OR gallows brackets and front legs with adjustable foot piece (optional, please specify). Brackets to be fixed to the wall with anchor bolts (bolts elsewhere measured)	No	1	6,950.00	6,950.00
267	Model SS18 Product Code 356663 Slab Sink Size 1800 x 550 x 50mm . Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm thick, with a 300mm splash back. Sink includes a 50mm deep trough like basin with 40mm waste outlets, outlets and a hole for the pillar spout evenly spaced. Unit to be supplied with pedestals and knee operated pedals. Spout and valves optional (please specify), plumbing elsewhere measured. Unit to be fixed to the wall with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured). Also include Product Code 359662 - Slab Sink Pillar Spout Cobra DA-006TUP210	No	1	5,830.00	5,830.00
268	Model SS24 Product Code 356704 Slab Sink Size 2400 x 550 x 50mm . Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,6mm thick, with a 300mm splash back. Sink includes a 50mm deep trough like basin with 40mm waste outlets, outlets and a hole for the pillar spout evenly spaced. Unit to be supplied with pedestals and knee operated pedals. Spout and valves optional (please specify), plumbing elsewhere measured. Unit to be fixed to the wall with 3mm Stainless Steel bracket for reinforcement. (Bolts elsewhere measured). Also include Product 359660 - Slab Sink Knee operated valve Cobra KM1.00	No	1	6,720.00	6,720.00
269	Model WFF6 (foot-operated) wash fountain and basin Product Code 352350 , 900x900x1200mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1.6mm gauge. Unit to be fully plumbed up to 3/4" BSP cold water connection for a thermostatic mixing valve (thermostatic mixing valve elsewhere measured) for hot and cold water. Unit to be supplied with one 40mm C.P. on brass waste outlet connection.	No	1	5,340.00	5,340.00
270	Model WFH6 (hand-operated) wash fountain and basin Product Code 352400 , 900x900x1200mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1.6mm gauge. Unit to be fully plumbed up to 3/4" BSP cold water connection for a thermostatic mixing valve (thermostatic mixing valve elsewhere measured) for hot and cold water. Unit to be supplied with one 40mm Chromium plated on brass waste outlet connection.	No	1	5,460.00	5,460.00
271	"DF" Pedestal Type Drinking Fountain Product Code 352250 Size 400 x 400 x 920mm high. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1.2mm gauge. Unit to include a one piece pressed bowl with a 40mm waste outlet and removable top section. Unit to be supplied with a Bubbler OR Carafe Spout...(please specify). Unit to be supplied complete with a reinforced fixing flange. Unit to be fixed to floor with 10mm masonry bolts. (Bolts elsewhere measured).	No	1	5,400.00	5,400.00
272	Model CMPX592 Stainless Steel wall hung WC pan. Manufactured from Grade 304 (18/10) Stainless Steel, 360 x 550 x 350mm. Unit to be a back entry . Unit to be supplied with 3mm thick Stainless Steel wall fixing bracket and fitted in accordance with manufacturers specifications using 4 x 8mm anchor bolts (elsewhere measured).Compliant with SABS 1733:1998 and SABS 497:1991 WC pan to flush with 4 and 6 litres of water. Pan to withstand point load of 400kg as per international standards. Allowance to also be made for Estonia Soft Closing seat (black) Product Code 356258	No	1	5,200.00	5,200.00

273	Model CMPX592 Stainless Steel wall hung WC pan. Manufactured from Grade 304 (18/10) Stainless Steel, 360 x 550 x 350mm. Unit to be a Geberit Kombifix Cistern - Back Entry Product Code 825064 . Unit to be supplied with 3mm thick Stainless Steel wall fixing bracket and fitted in accordance with manufacturers specifications using 4 x 8mm anchor bolts (elsewhere measured).Compliant with SABS 1733:1998 and SABS 497:1991 WC pan to flush with 4 and 6 litres of water. Pan to withstand point load of 400kg as per international standards. Allowance to also be made for Estonia Soft Closing seat (black) Product Code 356258	No	1	5,200.00	5,200.00
274	Model CMPX594 Stainless Steel wall hung WC pan. Manufactured from Grade 304 (18/10) Stainless Steel, 360 x 700 x 350mm. Unit to be a back entry . Unit to be supplied with 3mm thick Stainless Steel wall fixing bracket and fitted in accordance with manufacturers specifications using 4 x 8mm anchor bolts (elsewhere measured). Compliant with SABS 1733:1998 and SABS 497:1991 WC pan to flush with 4 and 6 litres of water. Pan to withstand point load of 400kg as per international standards. Allowance to be made for Estonia Soft Closing seat (black) Product Code 356258	No	1	5,300.00	5,300.00
275	Bundle Pack CMPX592 With Geberit Kombifix Cistern with Actuator - Back Entry with Geberit Kombifix UP172 concealed cistern with front actuation, Size 770 x 500 x 80mm depth. Installation height of 1090mm. Fastening for outlet bend pluggable. To be supplied complete with galvanised mounting frame with 4 fastening brackets. Water supply connection is at the top of the unit, connection hose to angle stop valve can be fixed without tools. Unit complete with 2 x threaded rods M12 for fastening, protection cover for service opening - polystyrene foam, angle stop valve R1/2" and plug adapter, outlet bend bracket, connector set ø 90mm, WC outlet bend, PE-HD ø 90/90mm, adapter sleeve, PE-HD ø 90/110mm, 2 x protection plugs, fastening material and netting for direct plastering. Allowance to be made for Estonia Soft Closing seat (black) Product Code 356258	No	1	5,800.00	5,800.00
276	Bundle Pack CMPX594 With Geberit Kombifix Concealed Cistern with Actuator - Back Entry with Geberit Kombifix UP172 concealed cistern with front actuation, Size 770 x 500 x 80mm depth. Installation height of 1090mm. Fastening for outlet bend pluggable. To be supplied complete with galvanised mounting frame with 4 fastening brackets. Water supply connection is at the top of the unit, connection hose to angle stop valve can be fixed without tools. Unit complete with 2 x threaded rods M12 for fastening, protection cover for service opening - polystyrene foam, angle stop valve R1/2" and plug adapter, outlet bend bracket, connector set ø 90mm, WC outlet bend, PE-HD ø 90/90mm, adapter sleeve, PE-HD ø 90/110mm, 2 x protection plugs, fastening material and netting for direct plastering. Allowance to be made for Estonia Soft Closing seat (black) Product Code 356258	No	1	6,100.00	6,100.00
277	Model HDTX597 Heavy Duty Wall and Floor Mounted WC Pan 360 x 550 x 410mm high. Unit to be manufactured from Grade 304 (18/10) Stainless Steel 1,2mm gauge. Unit to be manufactured with a pressed flushing rim and integral "P" Trap with a 102mm outlet pipe and a 60mm back entry inlet pipe to suit a rubber flush inlet sealing bung. The pan to be manufactured with a shroud, with internal flanges for securing the pan through the wall and into floor with anchor bolts. (Bolts elsewhere measured). Installation to include Estonia Soft Closing seat (black) Product Code 356258	No	1	5,830.00	5,830.00
278	Model HCL Pedestal WC Pan, unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,2mm gauge. Unit to be manufactured with a pressed flushing rim and integral "P" Trap with a 102mm outlet pipe, and a 60mm back entry inlet pipe to suit a rubber flush inlet sealing bung. The pan to be fitted with a Stainless Steel base which has flanges with 6mm holes for fixing the pan to the floor (bolts elsewhere measured). Installation to also include Estonia Soft Closing seat (black) Product Code 356258	No	1	5,970.00	5,970.00
279	Model 700x700mm Squat Pan with 20mm turn up all round. Unit to be manufactured from Grade 304 (18/10) Stainless Steel ,1,2 mm gauge with the foot plate and flush bowl pressed into one piece. The foot plate tray to be pressed in raised pattern on both sides and in front of the flush bowl. The unit to be fitted with a rear entry flushing spreader that will self seal with 38mm flushing pipe , waste outlet with a 110mm external diameter, suitable for fitting to a standard 110mm PVC or cast iron waste connector.	No	1	4,500.00	4,500.00
280	Model 740x740mm Squat Pan with 20mm turn up all round. Unit to be manufactured from Grade 304 (18/10) Stainless Steel ,1,2 mm gauge with the foot plate and flush bowl pressed into one piece. The foot plate tray to be pressed in raised pattern on both sides and in front of the flush bowl. The unit to be fitted with a rear entry flushing spreader that will self seal with 38mm flushing pipe , waste outlet with a 110mm external diameter, suitable for fitting to a standard 110mm PVC or cast iron waste connector.	No	1	4,500.00	4,500.00
281	Model Low Level Shire 11 Litre Cistern. Low level cistern to be supplied complete with PVC flush pipe, supa flush valve and ball valve	No	1	5,100.00	5,100.00
282	Model High Level Shire 11 Litre High level cistern supplied complete with supa flush valve with chain and ball valve	No	1	6,100.00	6,100.00
283	Model BS400 Size 800 x 800 x 75mm deep Pressed Shower Tray. Manufactured from Grade 304 (18/10) Stainless Steel, 1.2mm gauge. Unit with radiused corners and a patterned base, with 40mm apron all round and 38mm BSP integrated waste outlet. (Waste fitting elsewhere measured).	No	1	1,250.00	1,250.00
284	Model BS401 Size 900x900x75mm deep Pressed Shower Tray. Manufactured from Grade 304 (18/10) Stainless Steel, 1.2mm gauge. Unit with radiused corners and a patterned base, with 40mm apron all round and 38mm BSP integrated waste outlet. (Waste fitting elsewhere measured).	No	1	1,230.00	1,230.00
285	Wall Mounted Shower Panel 1500 x 300 x 111mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel ,1,2 mm gauge. To be complete with radiused corners and a recessed storage shelf in the front panel with a front rail. Unit to be manufactured with holes to accommodate the mixer and shower rose (Fittings elsewhere measured)	No	1	1,100.00	1,100.00
286	Recessed Shower Panel 1485x322x45mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel ,1,2 mm gauge. To be complete with angled corners and a recessed storage shelf in the front panel with a front rail. Unit to be manufactured with holes to accommodate the tap and shower rose. (Fittings elsewhere measured)	No	1	980.00	980.00
287	Model CMPX538 Back entry single wall mounting urinal, 313 x 732 x 341mm with a pressed oval bowl. Unit to be manufactured from Grade 304 (18/10) Stainless Steel. Unit to be complete with 40mm waist outlet with a pressed perforated Stainless Steel grid and chrome plated button spreader with a 15mm coupling to connect to water supply. Unit to be mounted to the wall using a 1.2mm Stainless Steel bracket. Unit to be secured using rawl bolts. (bolts elsewhere measured)	No	1	4,900.00	4,900.00

288	Model CMPX538 Top entry single wall mounting urinal, 313 x 732 x 341mm with a pressed oval bowl. Unit to be manufactured from Grade 304 (18/10) Stainless Steel. Unit to be complete with 40mm waist outlet with a pressed perforated Stainless Steel grid and chrome plated button spreader with a 15mm coupling to connect to water supply. Unit to be mounted to the wall using a 1.2mm Stainless Steel bracket. Unit to be secured using rawl bolts. (bolts elsewhere measured)	No	1	5,200.00	5,200.00
289	Model SBE (Back Entry Inlet) Barron Bowl Urinal, 316 x 425 x 241mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,2mm gauge. Unit to be complete with 40mm waste outlet with a pressed perforated Stainless Steel grid and a chrome plated button spreader with a 15mm coupling to connect to water supply. Bowl to be fitted with a 2mm thick mounting plate with two key hole slots for mounting the unit to the wall. (Bolts elsewhere measured). Installation to include Flush Valve Specification Cobra Junior Flushmaster ref FJ8.102 (concealed type with palm press push-button)	No	1	5,300.00	5,300.00
290	Model TE (Top Entry Inlet) Barron Bowl Urinal, Size 316 x 425 x 241mm. Unit to be manufactured from Grade 304 (18/10) Stainless Steel, 1,2mm gauge. Unit to be complete with 40mm waste outlet with a pressed perforated Stainless Steel grid and a chrome plated button spreader with a 15mm coupling to connect to water supply. Bowl to be fitted with a 2mm thick mounting plate with two key hole slots for mounting the unit to the wall. (Bolts elsewhere measured). Installation to include Flush Valve Specification Cobra Junior Flushmaster ref FJ6.000 Tailpipe: Cobra ref FJT 5.5	No	1	5,300.00	5,300.00
291	Model CB102 (automatic flushing) curved back urinal length 1 000mm). Unit to manufactured from Grade 304 (18/10) Stainless Steel. Urinal to be supplied with built-in tipping tank and a12mm adjustable drip cock (inlet) which controls the automatic flushing of the urinal at regular intervals. Outlet to be situated on the left of the urinal with a 102mm removable domical grating and to include a built in threaded plate. The urinal to be supplied with a tiling key to the sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material.	No	1	5,040.00	5,040.00
292	Model CB102 (automatic flushing) curved back urinal length 2 000mm). Unit to manufactured from Grade 304 (18/10) Stainless Steel. Urinal to be supplied with built-in tipping tank and a12mm adjustable drip cock (inlet) which controls the automatic flushing of the urinal at regular intervals. Outlet to be situated on the left of the urinal with a 102mm removable domical grating and to include a built in threaded plate. The urinal to be supplied with a tiling key to the sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material.	No	1	5,600.00	5,600.00
293	Model CB102 (automatic flushing) curved back urinal length 3 000mm). Unit to manufactured from Grade 304 (18/10) Stainless Steel. Urinal to be supplied with built-in tipping tank and a12mm adjustable drip cock (inlet) which controls the automatic flushing of the urinal at regular intervals. Outlet to be situated on the left of the urinal with a 102mm removable domical grating and to include a built in threaded plate. The urinal to be supplied with a tiling key to the sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material.	No	1	6,300.00	6,300.00
294	Model CB102 "L" Shaped curve back urinal length (2 000 x 1000mm manufactured from Grade 304 (18/10) Stainless Steel. Unit will be supplied with one welded corner an easy assembly joint with sealing strip (as recommended). Urinal to be supplied with built-in tipping tank and a12mm adjustable drip cock (inlet) which controls the automatic flushing of the urinal at regular intervals. Outlet to be situated on the left, of the urinal with a 102mm removable domical grating and to include a built in threaded plate. The urinal to be supplied with a tiling key to the sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material.	No	1	6,100.00	6,100.00
295	"Atlas Plastics" or equal similar Architect approved Ref 215AP, VIP 100 Pedestal or equal approved with foot piece and seat and cover fixed to concrete floor.	No	1	2,600.00	2,600.00
296	Ref 222 AP VIP 200 Pedestal or equal approved with foot piece and seat and cover fixed to concrete floor.	No	1	2,600.00	2,600.00
297	Ref 223 AP VIP 200 Pedestal or equal approved with foot piece and seat and cover fixed to concrete floor.	No	1	2,650.00	2,650.00
298	Ref 224 AP VIP 200 Pedestal or equal approved with foot piece and seat and cover fixed to concrete floor.	No	1	2,700.00	2,700.00
299	Ref 237 AP VIP 450 Pedestal or equal approved with foot piece and seat and cover fixed to concrete floor.	No	1	3,200.00	3,200.00
300	Ref 523AP, Seat and Flap or equal approved	No	1	800.00	800.00
301	Ref 502AP Waste Loo or equal approved	No	1	820.00	820.00
302	Ref 522AP, 6lt Cistern c/w internals or equal approved	No	1	1,400.00	1,400.00
303	Ref 526AP, 9lt Cistern c/w internals or equal approved	No	1	1,400.00	1,400.00
304	Ref 507AP, Waterless Urinal fitting and waste or equal approved fixed to wall	No	1	750.00	750.00
305	Ref 382 AP Christy Wash Hand Basin with galvanised brackets and fittings, fixed to brickwork	No	1	3,600.00	3,600.00
	WASTE UNIONS ETC				
	Waste unions etc:				
306	32mm Code 301 chrome plated basin waste union.	No	1	380.00	380.00
307	32mm chromium plated basin waste union	No	1	320.00	320.00
308	32mm chromium plated basin waste union and chromium plated anti-theft plug	No	1	400.00	400.00
309	32mm chromium plated bath overflow union	No	1	320.00	320.00
310	40mm chromium plated bath or sink waste union	No	1	405.00	405.00

311	Basin Waste (Code:303) slotted with 62mm diameter flange and 80mm long shank, Includes slotted basin waste, flanged backnut, 62mm diameter flange, 80mm long shank, 1 1/4" male inlet or other equal Architect approved system	No	1	435.00	435.00
	TRAPS ETC				
	'Cobra Watertech' or equal and approved traps etc:				
312	Bottle Trap (Cobra Code 340) includes Re-seal bottle trap with telescopic basin connection pipe. 1 ¼"BSP female inlet and 1 ½" male outlet connection ends.	No	1	541.00	541.00
313	Bottle trap (Code: 345/50) includes bottle trap, with 75mm deep re-seal and adjustable telescopic pipe, 1 1/4" female inlet x 40mm diameter outlet for pvc tube chrome plated or other equal Architect approved.	No	1	815.00	815.00
314	Bottle Trap (Cobra Code 350), 1 ¼" BSP female inlet connection x 1 ½" outlet + C-365/1 = 345/50 BOTTLE TRAP 1 ¼" BSP female inlet connection x 50mm PVC outlet connection.	No	1	605.00	605.00
315	Bottle Trap (Cobra Code 360) 1 ½" BSP female inlet connection x 1 ½" outlet connection + C-365/1 = 365/50 BOTTLE TRAP 1 ½" BSP female inlet connection x 50mm PVC outlet connection.	No	1	832.00	832.00
316	Bottle Trap (Cobra Code 385/35SQ) Re-seal bottle trap with telescopic basin connection pipe. 1 ¼" BSP female inlet and 35mm outlet.	No	1	790.00	790.00
317	Trap (Cobra Code 370) Shallow seal bath P trap. 1 ½" BSP male inlet and 1 ½" BSP female outlet.	No	1	611.00	611.00
318	Trap (Cobra Code 373) Shallow seal bath P trap with chrome plated grating. 1 ½" BSP female outlet.	No	1	451.00	451.00
319	Trap (Cobra Code 373SQ) Shallow seal bath P trap with chrome plated grating. 1 ½" BSP female outlet.	No	1	696.00	696.00
320	110mm uPVC one-way vent valve	No	1	126.00	126.00
321	40mm Rubber "P" or "S" trap	No	1	120.00	120.00
322	40mm Rubber reseal "P" or "S" trap	No	1	130.00	130.00
323	40mm Rubber bath "P" trap with overflow outlet and pipe	No	1	200.00	200.00
324	40mm anti-vac bottle trap	No	1	595.00	595.00
325	40mm Cast iron "P" trap	No	1	550.00	550.00
326	40mm Cast iron "P" urinal trap	No	1	570.00	570.00
327	100mm floor drain	No	1	988.00	988.00
	TAPS, VALVES, ETC				
328	15mm chromium plated extension piece with sliding wall flange	No	1	265.00	265.00
329	20mm chromium plated extension piece with sliding wall flange	No	1	270.00	270.00
330	15mm chromium plated angle regulating valve and connection pipe	No	1	265.00	265.00
331	15mm chromium plated angle regulating valve and flexible connection pipe	No	1	320.00	320.00
332	15mm chromium plated fullway isolating ball valve	No	1	340.00	340.00
333	20mm brass fullway isolating ball valve with lever handle	No	1	270.00	270.00
334	25mm brass fullway isolating ball valve with lever handle	No	1	280.00	280.00
335	15mm chromium plated fullway ballcock	No	1	240.00	240.00
336	15mm brass stopcock	No	1	235.00	235.00
337	20mm brass stopcock	No	1	260.00	260.00
338	22mm brass stopcock	No	1	270.00	270.00
339	15mm chromium plated stopcock	No	1	230.00	230.00
340	15mm chromium plated undertile stopcock	No	1	260.00	260.00
341	20mm chromium plated undertile stopcock	No	1	275.00	275.00
342	15mm brass fullway gate valve	No	1	320.00	320.00
343	20mm brass fullway gate valve	No	1	335.00	335.00
344	22mm brass fullway gate valve	No	1	340.00	340.00
345	25mm brass high pressure float valve including ball	No	1	405.00	405.00
346	32mm brass high pressure float valve including ball	No	1	425.00	425.00
347	15mm brass bib-tap	No	1	325.00	325.00
348	20mm brass bib-tap	No	1	330.00	330.00

349	15mm chromium plated bib-tap	No	1	325.00	325.00
350	20mm chromium plated bib-tap	No	1	330.00	330.00
351	15mm chromium plated hose bib-tap	No	1	320.00	320.00
352	20mm chromium plated hose bib-tap	No	1	325.00	325.00
353	15mm chromium plated pillar tap	No	1	320.00	320.00
354	20mm chromium plated pillar tap	No	1	325.00	325.00
355	15mm chromium plated elbow action pillar tap	No	1	450.00	450.00
356	15mm chromium plated basin mixer with angle flow regulating valves	No	1	420.00	420.00
357	15mm chromium plated basin mixer with waste union, etc and angle flow regulating valves	No	1	450.00	450.00
358	15mm chromium plated basin mixer with pop-up waste and angle flow regulating valves	No	1	450.00	450.00
359	15mm chromium plated sink mixer	No	1	450.00	450.00
360	20mm chromium plated bath mixer	No	1	460.00	460.00
361	20mm chromium plated bath mixer with hand shower and attachments	No	1	450.00	450.00
362	15mm chromium plated shower mixer with riser pipe, arm and shower head	No	1	425.00	425.00
363	20mm chromium plated bath spout	No	1	390.00	390.00
364	15mm chromium plated shower head	No	1	425.00	425.00
365	15mm chromium plated overhead shower arm	No	1	430.00	430.00
366	15mm chromium plated overhead shower arm with ball joint	No	1	435.00	435.00
367	15mm brass check valve	No	1	400.00	400.00
368	15mm brass automatic closing check valve	No	1	410.00	410.00
369	15mm brass in-line strainer	No	1	415.00	415.00
370	20mm vacuum breaker	No	1	445.00	445.00
371	22mm Vacuum breaker	No	1	445.00	445.00
372	20mm pressure control valve with vacuum breaker	No	1	450.00	450.00
	<u>'Cobra Standard Brass'</u>				
373	15mm Plain Bibtap Product Code 100-15	No	1	394.00	394.00
374	15mm Plain Bibtap Product Code 200-15	No	1	311.00	311.00
375	20mm Plain Bibtap Product Code 200-20	No	1	378.00	378.00
	<u>'Cobra Demand & Metering Taps' or equal similar Architect approved</u>				
376	Demand taps Code KM2-102	No	1	2,132.00	2,132.00
377	Demand taps Code KM2-202-15	No	1	1,267.00	1,267.00
378	Demand taps Code KM2-203-15	No	1	100.00	100.00
379	Demand taps Code KM2-203-20	No	1	1,019.00	1,019.00
380	Demand taps Code KM2-302	No	1	1,245.00	1,245.00
381	Metering tap code KM1-00 Exposed flow control valve with ball-o-stop, with non-hold open feature. ¾" BSP female connection end	No	1	2,679.00	2,679.00
382	Metering pillar tap with non-hold open feature and flow controller (Code KM2-100). Flow cycle 1-20 secs. ½" BSP Male connection end	No	1	3,167.00	3,167.00
383	Metering pillar tap with non-hold open feature and flow controller (Code KM2-101). Brushed chrome finish. Flow cycle 1-20 secs. ½" BSP Male connection end. SANS 1808-9.	No	1	2,132.00	2,132.00
384	Metering bib tap with non-hold open feature and flow controller (Code KM2-200). Flow cycle 1-20 secs. ½" BSP Male connection end	No	1	2,827.00	2,827.00
385	Metering bib tap with non-hold open feature and flow controller (Code KM2-201). Brushed chrome finish. Flow cycle 1-20 secs.	No	1	2,451.00	2,451.00
386	Undertile metering stop tap (Code KM2-301) with non-hold open feature, flow controller and stainless steel wall flange. Brushed chrome finish. Flow cycle 1-20 secs. ½" BSP Male connection ends	No	1	2,354.00	2,354.00
387	Metering urinal valve (CodeKM6-000) with non-hold open feature, flow controller, integral shut off valve and sliding wall flange. Flow cycle 1-20 secs. ½" BSP Male connection end	No	1	1,984.00	1,984.00

388	Self closing pillar tap (Code KM2-100FS). Flow cycle 1-20 secs. ½" male inlet.	No	1	2,955.00	2,955.00
389	Metering spout (Code KM066WT-114), wall type with non-hold open feature, flow controller and wall flange. Flow cycle 1-20 secs. ½" BSP Male connection end.	No	1	2,895.50	2,895.50
390	Cobra Watertech 20mm Kwikflo pressure control valve (Code: PA1-1) with integral expansion relief valve, stainless steel seat and strainer and 400kPa system pressure.	No	1	1,857.00	1,857.00
	<u>Brushed finish brass steel:</u>				
391	15mm Bibcock with hose union.	No	1	345.00	345.00
392	20mm Bibcock with hose union.	No	1	350.00	350.00
393	15mm Stop tap	No	1	345.00	345.00
394	20mm Stop tap	No	1	350.00	350.00
395	22mm Stop tap	No	1	350.00	350.00
396	25mm Stop tap	No	1	370.00	370.00
397	28mm Stop tap	No	1	380.00	380.00
398	Cobra Watertech "Star" wall type Sink Mixer with aerated swivel outlet (Code 366/04/10ST), Cobra Isolating ball valves (Code: 1090-15) or other equal Architect approved	No	1	3,570.00	3,570.00
399	Chrome Plated Angle Regulated valve (Code: 232/350) with 350mm long flexi-tube, sliding wall flange, 1/2" BSP male inlet or equal Architect approved	No	1	1,650.00	1,650.00
400	Medical mixer (Cobra code 515/055H-21)	No	1	3,855.00	3,855.00
	<u>Rough finish brass steel:</u>				
401	15 mm Brass gate valve.	No	1	390.00	390.00
402	20 mm Brass gate valve.	No	1	450.00	450.00
403	25 mm Brass gate valve.	No	1	455.00	455.00
404	28 mm Brass fullway gate valve.	No	1	470.00	470.00
405	28 mm Brass full way gate valve and connecting to HDPE pipe.	No	1	470.00	470.00
406	32 mm Brass gate valve.	No	1	480.00	480.00
407	40 mm Brass gate valve.	No	1	510.00	510.00
408	50 mm Brass gate valve.	No	1	530.00	530.00
409	65 mm Brass gate valve.	No	1	570.00	570.00
410	80 mm Brass gate valve.	No	1	650.00	650.00
411	100 mm Brass gate valve.	No	1	740.00	740.00
	<u>'Cobra Watertech':</u>				
412	Taryn Metering Tap. (code: KM2.100FS) or equal Architect approved installed as per manufacturer's specification	No	1	4,005.00	4,005.00
413	20mm Masterflo I pressure control valve with integral expansion relief valve, Easy-fit cartridge, stainless steel strainer and MI union couplings (system pressure 400 kPa) (code PA3.132) or equal Architect approved	No	1	1,681.00	1,681.00
414	Vacuum breaker (code PB1.10 RB) or equal Architect approved	No	1	1,580.00	1,580.00
415	Concealed (back inlet) flushvalve (Cobra FJ8.102 or equivalent).	No	1	1,950.00	1,950.00
416	Exposed (top-inlet) flushvalve (FJ6000 Flushmaster or equivalent).	No	1	1,980.00	1,980.00
417	Electronic top inlet valve (Cobra EL-3004 or equivalent).	No	1	1,665.00	1,665.00
418	Electronic back inlet valve (Cobra EL-3005 or equivalent).	No	1	1,665.00	1,665.00
419	32mm standing overflow tube, chrome plated (code 863020)	No	1	1,255.00	1,255.00
420	15mm Chromium plated Elbow Action Pillar Cold Water Tap Cobra 503-21B	No	1	2,013.00	2,013.00
421	15mm Elbow Action Cold Water Bibtap Cobra 500-21B	No	1	2,013.00	2,013.00
422	15mm Elbow Action Hot Water Bibtap Cobra 500-21R	No	1	2,013.00	2,013.00
423	15mm Chromium plated Elbow Action Cold Water Pillar Tap Cobra 504-21B	No	1	2,013.00	2,013.00
424	15mm Chromium plated Elbow Action Pillar Hot Water Tap Cobra 504-21R	No	1	2,013.00	2,013.00
425	15mm Chromium plated Elbow Action Pillar Hot Water Tap Cobra 503-21R	No	1	2,013.00	2,013.00
426	15mm Chromium plated Elbow Action Pillar Cold Water Tap Cobra 505-21B	No	1	2,013.00	2,013.00

427	15mm Chromium plated Elbow Action Pillar Hot Water Tap Cobra 505-21R	No	1	2,013.00	2,013.00
428	Stella Bibtap Cobra 3306 St-20	No	1	550.00	550.00
429	Carina Bibtap Cobra 106Ca-15	No	1	450.00	450.00
<u>SANITARY PLUMBING</u>					
<u>uPVC piping (SABS 967-1987):</u>					
430	40mm Pipe and laying in filling under solid floors.	m	1	70.00	70.00
431	50mm Ditto.	m	1	90.00	90.00
432	40mm Waste piping fixed to walls.	m	1	65.00	65.00
433	50mm Ditto.	m	1	90.00	90.00
434	110mm Ditto.	m	1	105.00	105.00
435	50mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	1	95.00	95.00
436	110mm Ditto.	m	1	160.00	160.00
437	Splay cut end to 40mm Pipe.	No	1	80.00	80.00
438	Ditto to 50mm pipe.	No	1	90.00	90.00
439	Labour bend to 40mm pipe.	No	1	120.00	120.00
<u>Extra over uPVC piping for:</u>					
440	40mm Bend.	No	1	55.00	55.00
441	50mm Ditto.	No	1	60.00	60.00
442	110mm Ditto.	No	1	125.00	125.00
443	110mm Pan connector.	No	1	120.00	120.00
444	110mm Bent pan collar.	No	1	126.00	126.00
445	40mm Access bend.	No	1	58.00	58.00
446	50mm Ditto.	No	1	60.00	60.00
447	110mm Ditto.	No	1	125.00	125.00
448	50 x 40mm Straight reducer.	No	1	65.00	65.00
449	40mm Junction.	No	1	55.00	55.00
450	50mm Ditto.	No	1	60.00	60.00
451	110mm Ditto.	No	1	125.00	125.00
452	40mm Access junction.	No	1	65.00	65.00
453	50mm Ditto.	No	1	70.00	70.00
454	110mm Ditto.	No	1	125.00	125.00
455	110mm Air vent cowl.	No	1	130.00	130.00
456	110mm Access bend with anti-syphon horn.	No	1	125.00	125.00
457	40mm End cap	No	1	55.00	55.00
458	50mm End cap	No	1	60.00	60.00
459	110mm End cap	No	1	130.00	130.00
460	110mm BSP adaptor	No	1	135.00	135.00
461	110mm Access reducing junction	No	1	140.00	140.00
<u>Extra over PVC-U soil and vent pipes for cast iron fittings</u>					
462	110mm Bend	No	1	125.00	125.00
<u>Sundries</u>					
463	Wire balloon grating in top of pipe not exceeding 100mm diameter	No	1	180.00	180.00
<u>Testing:</u>					
464	Testing waste water pipe system.	Item	1	3,500.00	3,500.00

WATER SUPPLIES**Copper pipes:**

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be 'Cobra Watertech' type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level

Copper pipes chased in walls:

Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the discription of pipe chased in walls.

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

465	Excavation in earth not exceeding 1m deep for pipe trenches	m3	1	70.00	70.00
466	Excavation in earth exceeding 2m and not exceeding 4m deep for pipe trenches	m3	1	111.98	111.98
467	Backfilling to pipe trenches	m3	1	80.00	80.00
468	Backfilling to pipe trenches compacted to 93% Mod AASHTO density	m3	1	80.00	80.00
469	Selected granular filling in bedding under and filling around pipes	m3	1	160.00	160.00
470	19mm Crushed stone bedding under pipes	m3	1	360.00	360.00
471	Unreinforced concrete bedding under pipes	m3	1	1,400.00	1,400.00
<u>Class 16 PVC-U pressure pipes with solvent welded joints</u>					
472	16mm Pipes laid in and including trenches not exceeding 1m deep	m	1	50.00	50.00
473	20mm Pipes laid in and including trenches not exceeding 1m deep	m	1	60.00	60.00
474	25mm Pipes laid in and including trenches not exceeding 1m deep	m	1	65.00	65.00
475	32mm Pipes laid in and including trenches not exceeding 1m deep	m	1	70.00	70.00
476	40mm Pipes laid in and including trenches not exceeding 1m deep	m	1	75.00	75.00
477	50mm Pipes laid in and including trenches not exceeding 1m deep	m	1	80.00	80.00
478	63mm Pipes laid in and including trenches not exceeding 1m deep	m	1	110.00	110.00
<u>Extra over Class 16 PVC-U pressure pipes for fittings with solvent welded joints</u>					
479	16mm Bend	No	1	30.00	30.00
480	20mm Bend	No	1	35.00	35.00
481	25mm Bend	No	1	35.00	35.00
482	32mm Bend	No	1	40.00	40.00
483	40mm Bend	No	1	40.00	40.00
484	50mm Bend	No	1	55.00	55.00
485	63mm Bend	No	1	70.00	70.00
<u>Extra over Class 16 PVC-U pressure pipes for cast iron pressure fittings</u>					
486	50mm Reducer	No	1	55.00	55.00
487	50mm Tee	No	1	55.00	55.00
488	50mm Reducing tee	No	1	55.00	55.00
<u>Class 2 copper pipes:</u>					
489	15mm Pipe chased into brick walls.	m	1	35.00	35.00
490	22mm Ditto.	m	1	40.00	40.00

491	28mm Ditto.	m	1	45.00	45.00
492	32mm Ditto.	m	1	55.00	55.00
493	42mm Pipe and laying in ground or filling not exceeding 1m deep including excavation in earth, filling in and ramming.	m	1	75.00	75.00
	<u>Extra over class 2 copper pipes for capillary fittings:</u>				
494	15mm Fittings.	No	1	35.00	35.00
495	22mm Fittings.	No	1	40.00	40.00
496	28mm Fittings.	No	1	45.00	45.00
497	32mm Straight reducer.	No	1	50.00	50.00
498	42mm Ditto.	No	1	50.00	50.00
499	32mm Elbow.	No	1	50.00	50.00
500	42mm Ditto.	No	1	50.00	50.00
501	32mm Tee.	No	1	50.00	50.00
502	42mm Ditto.	No	1	50.00	50.00
503	32mm Reducing tee.	No	1	50.00	50.00
504	42mm Ditto.	No	1	50.00	50.00
	<u>ELECTRIC WATER HEATERS</u>				
	<u>Kwikot or equal similar approved</u>				
505	Prisma Classique point of use 10 litre electric thermostat regulated underbasin water heater (Code: FPRX-10-UB) with Kwikot Over Basin Mixer (Code: PMX-74), overall size 340 x 291 x 347mm, fixed on mounting bracket plugged and screwed to wall and connected to 230V electrical power supply, all in accordance to manufacturer's recommendations.	No	1	1,300.00	1,300.00
506	Prisma Classique point of use 30 litre electric thermostat regulated overbasin water heater (Code: FPRX-30-OB) with mixer (elsewhere specified), overall size 440 x 389 x 455mm, fixed on mounting bracket plugged and screwed to wall and connected to 230V electrical power supply, all in accordance to manufacturer's recommendations.	No	1	2,900.00	2,900.00
507	20 Litre over-basin electric water heater	No	1	3,000.00	3,000.00
508	150 Litre floor electric water heater	No	1	7,200.00	7,200.00
509	150 Litre wall electric water heater	No	1	7,200.00	7,200.00
510	200 Litre floor electric water heater	No	1	8,600.00	8,600.00
511	200 Litre wall electric water heater	No	1	8,600.00	8,600.00
512	Franke - Zip Stainless Steel 7.5 litre Hydroboil pro, (code: 380101) 45 -50 cups or equal approved complete with hydroboil sink overflow spout (code : 029229) or equal Architect approved	No	1	13,500.00	13,500.00
	<u>Kwikot Heat pumps or equal similar Architect approved</u>				
513	3,5kW Standard Heat Pump (Code: HP-003), size 885 x 360 x 600mm high with 75 liters/hour capacity, connected to single phase electrical power supply and installed in accordance with manufacturer's recommendations.	No	1	15,000.00	15,000.00
514	5,5kW Standard Heat Pump (Code: HP-005), size 885 x 360 x 600mm high with 110 liters/hour capacity, connected to single phase electrical power supply and installed in accordance with manufacturer's recommendations.	No	1	19,500.00	19,500.00
	<u>DRIP TRAYS, TANKS, ETC</u>				
	<u>0,6mm Galvanised sheet steel</u>				
515	800 x 1 500mm Drip tray for water heater, with 100mm high upstand all round with top edge bent over and with 15mm threaded outlet union	No	1	950.00	950.00
	<u>Atlas Plastics Water Tanks or equal similar Architect approved</u>				
516	Rotomoulded polyethylene water tank (Code: 2095APB), size 1180mm x 867mm diameter, 500 litre capacity, connected to 2 x 38mm threaded inlet, outlet and overflow tank connectors including 270mm diameter manhole lid with 3 self tapping screws.	No	1	1,200.00	1,200.00
517	Rotomoulded polyethylene water tank (Code: 2100AP), size 1150mm x 1080mm diameter, 1 000 litre capacity, connected to 2 x 38mm threaded inlet, outlet and overflow tank connectors including 270mm diameter manhole lid with 3 self tapping screws.	No	1	3,200.00	3,200.00
518	Rotomoulded polyethylene water tank (Code: 2103AP), size 1700mm x 1500mm diameter, 2 800 litre capacity, connected to 2 x 38mm threaded inlet, outlet and overflow tank connectors including 450mm diameter manhole lid with 3 self tapping screws.	No	1	5,100.00	5,100.00

519	Rotomoulded polyethylene water tank (Code: 2105AP), size 1980mm x 1850mm diameter, 5 000 litre capacity, connected to 2 x 38mm threaded inlet, outlet and overflow tank connectors including 450mm diameter manhole lid with 3 self tapping screws.	No	1	7,500.00	7,500.00
	<u>Hot-dip galvanised steel sectional water tanks etc</u>				
520	3 900 Litre Tank with external flanges, flat top and bolted manhole lid, approximately 5m above ground level	No	1	260,000.00	260,000.00
521	7 200 Litre Tank with external flanges, flat top, raised valve box and bolted manhole lid, approximately 5m above ground level	No	1	280,000.00	280,000.00
522	10 000 Litre Tank with external flanges, flat top, raised valve box and bolted manhole lid, approximately 5m above ground level	No	1	306,000.00	306,000.00
523	Outlet union for 50mm steel pipe, including hole through tank	No	1	350.00	350.00
	<u>Saint Gobain Municipal Gratings, Covers and Frames or equal similar Architect approved</u>				
524	(Besaans-du Plessis foundries) medium duty Type 12 single seal manhole (Code: 02110), size 530 x 530mm x 67kg.	No	1	980.00	980.00
525	Besaans-du Plessis foundries light duty Type 14B single seal manhole (Code: 02040), size 450 x 450mm x 28,5kg.	No	1	800.00	800.00
526	Besaans-du Plessis foundries medium duty Type 9B single seal manhole (Code: 02130), size 600 x 600mm x 82kg.	No	1	1,400.00	1,400.00
527	Besaans-du Plessis foundries medium duty Type 9D single seal manhole (Code: 02080), size 450 x 600mm x 68kg.	No	1	1,200.00	1,200.00
528	Besaans-du Plessis foundries heavy duty Type CCP single seal manhole (Code: 02100), size 450 x 600mm x 117kg.	No	1	1,380.00	1,380.00
529	Besaans-du Plessis foundries heavy duty Type 2A modified frame (Code: 02219), size 635mm Ø x 70kg.	No	1	1,500.00	1,500.00
530	Besaans-du Plessis foundries heavy duty Type 2B ventilated circular road manhole (Code: 02220), size 550mm Ø x 173kg.	No	1	1,450.00	1,450.00
531	Besaans-du Plessis foundries medium duty Type 4 frame (Code: 02252), size 625mm Ø x 24kg.	No	1	1,640.00	1,640.00
532	Besaans-du Plessis foundries light duty hinged gully grate (Code: 02865), size 140mm Ø x 1,8kg.	No	1	450.00	450.00
533	Besaans-du Plessis foundries light duty round gully grate (Code: 02855), size 140mm Ø x 0,7kg.	No	1	360.00	360.00
534	Besaans-du Plessis foundries medium duty Type 5 hydrant box (Code: 02690), size 375 x 300 x 150mm x 45kg.	No	1	860.00	860.00
535	Besaans-du Plessis foundries light duty Type 10C meter box (Code: 02590), size 375 x 300 x 150mm x 25kg.	No	1	620.00	620.00
536	Besaans-du Plessis foundries heavy duty Linrex L-300x750-D ductile iron D400 channel grating with 30 x 30 x 5mm mild steel angle frame with 8mm hold down rods at 300mm centres cast into edge of concrete (Code: 02328), size 750 x 300mm x 22,9kg.	No	1	650.00	650.00
	<u>Sundries</u>				
537	Unreinforced concrete in thrust blocks in trenches at bends, tees, etc including extra excavation, formwork, etc	m3	1	1,400.00	1,400.00
	<u>Disinfecting</u>				
538	Disinfecting water pipe and tank system	Item	1	12,000.00	12,000.00
	<u>Testing:</u>				
539	Testing water supply pipe system.	Item	1	4,000.00	4,000.00
	<u>FIRE APPLIANCES ETC.</u>				
540	'Everyway' hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket.	No	1	5,900.00	5,900.00
541	1,5 kg Dry chemical fire extinguisher with mounting bracket fixed to and including 19 x 144 x 500mm high wrought meranti backing board, four times bolted to wall with M8 expansion bolts..	No	1	392.00	392.00
542	4,5 kg Dry chemical fire extinguisher with mounting bracket fixed to and including 19 x 144 x 500mm high wrought meranti backing board, four times bolted to wall with M8 expansion bolts..	No	1	839.00	839.00
543	9kg Dry chemical fire extinguisher with mounting bracket fixed to and including 19 x 144 x 500mm high wrought meranti backing board, four times bolted to wall with M8 expansion bolts..	No	1	1,020.00	1,020.00
544	4,5 kg dry chemical powder fire extinguisher	No	1	945.00	945.00
545	9kg dry chemical powder fire extinguisher	No	1	1,253.00	1,253.00
546	100mm diameter 2500 KPa pressure gauge syphon and stopcock, including tapped hole in steel pipe	No	1	978.00	978.00
547	80 x 65mm brass right-angle hydrant valve with cap and chain	No	1	550.00	550.00
548	80 x 65mm brass double booster pump connection and Y-piece, with caps and chains	No	1	614.00	614.00

549	100mm brass hydrant including two flanged spacer pipes, 100mm duckfoot bend, connecting bolts, gaskets, etc	No	1	1,450.00	1,450.00
550	100mm cast iron flanged non-return valve	No	1	800.00	800.00
551	100mm cast iron flanged gate valve	No	1	820.00	820.00
	<u>Fire hydrant pedestals</u>				
552	Unreinforced concrete hydrant pedestal 900mm high, cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to 200 x 200mm overall octagonal shaped top, including excavation, formwork and two coats of paint to exposed surfaces	No	1	360.00	360.00
	<u>WATER SUPPLIES TO FIRE APPLIANCES</u>				
553	Excavation in earth not exceeding 1m deep for pipe trenches	m3	1	80.00	80.00
554	Excavation in earth exceeding 1m and not exceeding 2m deep for pipe trenches	m3	1	95.00	95.00
555	Backfilling to pipe trenches	m3	1	80.00	80.00
556	Backfilling to pipe trenches compacted to 95% Mod AASHTO density	m3	1	90.00	90.00
557	Selected granular filling in bedding under and filling around pipes	m3	1	160.00	160.00
558	19mm Crushed stone bedding under pipes	m3	1	360.00	360.00
559	Unreinforced concrete bedding under pipes	m3	1	1,600.00	1,600.00
	<u>WATER SUPPLIES TO FIRE APPLIANCES</u>				
	<u>Class 2 copper pipes:</u>				
560	28mm pipes.	m	1	130.00	130.00
561	32mm Pipes.	m	1	155.00	155.00
562	35mm Pipes.	m	1	175.00	175.00
	<u>Extra over class 2 copper pipes for brass compression fittings:</u>				
563	28mm Fittings.	No	1	50.00	50.00
564	32mm fittings.	No	1	60.00	60.00
565	35mm fittings.	No	1	75.00	75.00
	<u>Sundries:</u>				
566	Testing fire water pipe system.	Item	1	3,500.00	3,500.00
	<u>SLEEVES</u>				
	<u>Plastic sleeves for pipes not exceeding 100mm diameter:</u>				
567	Sleeve not exceeding 250mm long.	No	1	45.00	45.00
568	Sleeve exceeding 250mm and not exceeding 500mm long.	No	1	85.00	85.00
	<u>Plastic sleeves for pipes exceeding 100mm and not exceeding 200mm diameter:</u>				
569	Sleeve not exceeding 250mm long.	No	1	115.00	115.00
570	Sleeve exceeding 250mm and not exceeding 500mm long.	No	1	125.00	125.00
	<u>Plastic sleeves for pipes exceeding 200mm and not exceeding 300mm diameter:</u>				
571	Sleeve exceeding 250mm and not exceeding 500mm long.	No	1	135.00	135.00
	<u>Sundries:</u>				
572	Testing fire water pipe system.	Item	1	3,500.00	3,500.00
	<u>WORK TO EXISTING</u>				
	<u>Water Supply</u>				
573	Stop off, take down and remove existing galvanised mild steel and/or copper piping not exceeding 50 mm diameter including holderbats from walls, floors, ceilings and roofs and make good finishes where necessary	m	1	10.00	10.00
574	Ditto but exceeding 50 mm diameter and not exceeding 100 mm diameter	m	1	13.00	13.00
575	Excavate for, stop off, remove and replace 50 mm asbestos cement piping in ground with new polyethylene class 16 piping	m	1	85.00	85.00
576	Ditto but 80 mm	m	1	90.00	90.00

577	Hack through unreinforced concrete paving not exceeding 150 mm thick for piping trench, etc and reinstate with prescribed mix concrete class B on completion including making good junction of new and existing paving	m2	1	185.00	185.00
578	Ditto but through tarmacadam paving and layerworks and reinstate same on completion	m2	1	165.00	165.00
	<u>Fittings</u>				
579	Replace 15 mm tap washer	No	1	35.00	35.00
580	Reseat 15 mm brass/chromium plated taps	No	1	40.00	40.00
581	Ditto but 20 mm	No	1	40.00	40.00
	<u>SANITARY PLUMBING PIPING</u>				
582	Replace 40 mm UPVC and or galvanised mild steel soil and waste piping to walls with UPVC piping	m	1	35.00	35.00
583	Ditto but 50 mm	m	1	40.00	40.00
584	Ditto but 110 mm	m	1	50.00	50.00
	<u>TRAPS, ETC</u>				
585	Take off and remove existing "P" or "s" trap from sanitary fitting and replace with new 40 mm rubber trap	No	1	45.00	45.00
586	Ditto but 50 mm	No	1	50.00	50.00
	<u>SANITARY FITTINGS</u>				
587	Replace Flushmaster Junior kit to sanitary fitting	No	1	300.00	300.00
588	Ditto but Flashmaster Senior Kit	No	1	520.00	520.00
589	Replace Flushmaster Junior pushrod to sanitary fitting	No	1	300.00	300.00
590	Ditto but Flushmaster Senior pushrod	No	1	520.00	520.00
591	Replace Flushmaster Junior piston to sanitary fitting	No	1	320.00	320.00
592	Ditto but Flushmaster Senior piston	No	1	520.00	520.00
593	Replace Flushmaster Junior piston cover to sanitary fitting	No	1	565.00	565.00
594	Ditto but Flashmaster Senior piston cover	No	1	565.00	565.00
595	Replace Flushmaster Junior piston assembly complete to sanitary fitting	No	1	1,300.00	1,300.00
596	Ditto but Flashmaster Senior piston assembly	No	1	1,300.00	1,300.00
597	Replace plunger washer to W.C. cistern	No	1	70.00	70.00
598	Ditto but ball valve washer	No	1	60.00	60.00
599	Replace ball valve float to W.C. cistern	No	1	60.00	60.00
600	Replace low level cistern handle	No	1	60.00	60.00
601	Ditto but high level	No	1	75.00	75.00
602	Replace rubber flush pipe connector	No	1	75.00	75.00
603	Refix low and/or high level cistern to walls	No	1	63.00	63.00
604	Service and adjust low and/or high level cistern complete	No	1	63.00	63.00
605	Replace flush pipe to low level WC with UPVC piping	No	1	74.00	74.00
606	Ditto but high level WC	No	1	95.00	95.00
607	Replace WC seat with whitesingle flap plastic seat	No	1	155.00	155.00
608	Ditto but double flap plastic seat	No	1	190.00	190.00
609	Clean out blocked "P" or "S" trap and flush out thoroughly with clean water on completion	No	1	100.00	100.00
610	Clean out blocked WC pan, remove blockage from trap and flush out thoroughly with clean water on completion	No	1	180.00	180.00
611	Ditto but urinal trap	No	1	180.00	180.00
612	Refix wash hand basin and/or sink to walls	No	1	250.00	250.00
613	Take down and remove existing cistern and flush pipe and replace with new "Shires" low level black duranite 9 litre flushing cistern complete with new flush pipe including connecting same to cistern and existing WC pan and connecting cistern to existing water supply piping and making good wall finishes as necessary and service and clean down existing WC pan complete including new double flap white plastic seat	No	1	3,500.00	3,500.00

	<u>Take out and remove, including stopping off and removing redundant water supply and waste piping and make good walls and floors where necessary</u>				
614	Bath	No	1	150.00	150.00
615	WC pan	No	1	150.00	150.00
616	WC suite	No	1	150.00	150.00
617	Ceramic WHB	No	1	150.00	150.00
618	Steel sink	No	1	150.00	150.00
619	Steel laundry trough	No	1	150.00	150.00
620	Concrete laundry trough	No	1	200.00	200.00
621	Ceramic urinal	No	1	150.00	150.00
622	Steel curved back urinal	No	1	400.00	400.00
623	150 Litre geyser	No	1	300.00	300.00
624	Fire hose reel	No	1	150.00	150.00
	<u>TANKS, GEYSERS, ETC</u>				
625	Pump out contents of and clean out 150 litre cold water supply tank, rewasher, ease and adjust ball valve	No	1	600.00	600.00
626	Replace 15 mm ball valve in roof tank	No	1	320.00	320.00
627	Ditto but 20 mm	No	1	380.00	380.00
628	Replace 150 litre cold water supply tank in roof space with fibre reinforced cement tank or other approved complete with lid and tray including disconnecting and reconnecting of all pipes and fittings including overflow	No	1	3,400.00	3,400.00
629	Ditto but 230 litres	No	1	5,800.00	5,800.00
630	Stop off, dismantle and repair K300B pressure relief valve in roof space including replacement kit, re-assembling, testing and adjustment as necessary	No	1	1,000.00	1,000.00
	Carried to Final Summary				
					R 1,861,231.23

BILL NO. 18**GLAZING****PREAMBLES**

The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.

SUPPLEMENTARY PREAMBLES**Proprietary products in descriptions:**

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

GLAZING TO STEEL WITH PUTTY

All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.

3mm Clear float glass

1	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	395.00	395.00
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3mm Obscure glass

2	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	430.00	430.00
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4mm Clear float glass

3	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	460.00	460.00
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4mm Opaque glass

4	Panes not exceeding 0,1m ²	m2	1	510.00	510.00
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5mm Clear float glass

5	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	555.00	555.00
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5mm Clear Safety Glass:

6	Panes exceeding 0,5m ² .	m2	1	785.00	785.00
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5mm Obscure glass

7	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	680.00	680.00
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6mm Clear float glass

8	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	730.00	730.00
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6mm "Intruderproof" glazing:

9	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	1,122.00	1,122.00
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6.20mm Obscure Laminated Safety Glass:

10	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	1,292.00	1,292.00
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6.38mm Clear Laminated Safety Glass:

11	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	1,355.00	1,355.00
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12	Panes exceeding 0,5m ² and not exceeding 1,0m ² .	m2	1	1,355.00	1,355.00
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8mm Obscure Laminated Safety Glass:

13	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	1,466.00	1,466.00
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8mm Clear Laminated Safety Glass:

14	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	1,466.00	1,466.00
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15	Panes exceeding 0,5m ² and not exceeding 1,0m ² .	m2	1	1,530.00	1,530.00
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8mm Toughened Safety Glass:

16	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	1	1,579.00	1,579.00
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17	Panes exceeding 0,5m ² and not exceeding 1,0m ² .	m2	1	1,635.00	1,635.00
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TOPS, SHELVES, DOORS, MIRRORS, ETC.

6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete:

18	Mirror 450 x 1000mm high with four screws.	No	1	790.00	790.00
19	Mirror 450 x 600mm high with four screws.	No	1	620.00	620.00
20	Supply and install shower glass door	No	1	1,692.00	1,692.00
21	4. Supply and install shower glass cubical	No	1	3,948.00	3,948.00
<u>WORK TO EXISTING</u>					
22	Take out and remove cracked and/or broken glass from steel window panes, prime rebates as necessary and reglaze with 4mm clear float glass with putty	m2	1	316.00	316.00
23	Take out and remove cracked and/or broken glass from timber window panes, prime rebates as necessary and reglaze with 4mm clear float glass including replacing timber glazing beads as necessary	m2	1	316.00	316.00
24	Carefully chip out and remove existing putty to steel industrial and/or residential section window frames and replace with new (measured on flat to overall surface of window) including priming rebates	m2	1	75.00	75.00
Carried to Final Summary				R	25,102.00

BILL NO. 19					
PAINTWORK					
PREAMBLES					
The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.					
All work to be executed in strict accordance with the specifications of the paint manufacturer.					
Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.					
PAINTWORK ETC TO NEW WORK					
ON FLOATED PLASTER					
<u>Prepare surfaces and remove all loose material, apply one coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint as per plascon double velvet or equal and approved paint:</u>					
1	On interior walls.	m2	1	75.00	75.00
2	On external plastered walls.	m2	1	75.00	75.00
3	On interior soffits of stairs.	m2	1	75.00	75.00
4	On ceilings and beams.	m2	1	75.00	75.00
ON FIBRE-CEMENT, ETC.					
<u>Prepare, brush surface to remove all loose contaminants and apply one coat "Timesaver" or equal approved alkali resistant primer, and two coats "Plascon Polvin" or equal approved super acrylic PVA</u>					
5	On ceilings and cornices.	m2	1	75.00	75.00
<u>Prepare surfaces and remove all loose material, apply one coat primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint:</u>					
6	On window cills not exceeding 300mm girth.	m	1	35.00	35.00
ON METAL					
<u>Prepare surfaces and remove all loose material, check for dents in frame and fill with body filler as required. Wash down with galv clean. Touch up factory applied primer and apply one undercoat, followed by two coats gloss enamel paint:</u>					
7	On door frames.	m2	1	75.00	75.00
<u>Galvanised Metal surfaces to be cleaned down with galv. cleaner, apply 1 coat calcium plumbate primer, overcoated with 2 coats satin gloss enamel.</u>					
8	On cell doors, gates, grilles both sides.	m2	1	75.00	75.00
9	On strong room doors both sides.	m2	1	75.00	75.00
<u>Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat galvanised metal primer and finish with two coats superior universal non drip enamel on:</u>					
10	Exterior gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	1	75.00	75.00
<u>Clean down thoroughly with galvanised iron cleaner, wash down with water, prime with one coat metal primer and finish with two coats superior quality enamel on:</u>					
11	Windows with burglar bars (both sides measured).	m2	1	75.00	75.00
ON WOOD, WOOD BOARD					
<u>Stop, fill, sand down and prepare wood surfaces and apply one coat wood primer, one coat universal undercoat and two coats premium non drip polyurethane enamel paint:</u>					
12	On doors.	m2	1	75.00	75.00
<u>Sand down to remove all machine marks and punch nails below surface and fill with colour matching stopping compound. Finish with 3 coats tinted matt varnish lightly sanded between coats, first coat thinned 10%.</u>					
13	On interior skirtings, rails, etc not exceeding 300 mm girth.	m	1	30.00	30.00

	<u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality smooth gloss enamel on:</u>				
14	General surfaces of timbers at eaves.	m2	1	75.00	75.00
	<u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality eggshell enamel on:</u>				
15	Doors (all surfaces measured).	m2	1	75.00	75.00
16	Frames, rails, etc not exceeding 300mm girth.	m	1	75.00	75.00
17	Skirtings, rails, etc not exceeding 300mm girth.	m	1	35.00	35.00
	ON FIBRE-CEMENT				
	<u>Two coats wax polish</u>				
18	On floors	m2	1	75.00	75.00
19	On sills, thresholds, etc	m2	1	75.00	75.00
20	On sills, thresholds, etc	m2	1	75.00	75.00
21	On flush pointed faced walls	m2	1	75.00	75.00
22	On recessed pointed faced walls	m2	1	75.00	75.00
23	On recessed pointed faced walls	m2	1	75.00	75.00
	<u>Two coats linseed oil</u>				
24	On floors	m2	1	75.00	75.00
25	On sills, thresholds, etc	m2	1	75.00	75.00
26	On flush pointed faced walls	m2	1	75.00	75.00
	<u>Prepare and apply two coats pure acrylic roof paint on:</u>				
27	Fascias and barge boards.	m2	1	75.00	75.00
	<u>Prepare and apply one coat universal primer, one undercoat and two coats superior quality eggshell enamel:</u>				
28	On sills.	m2	1	75.00	75.00
	ON BRICK SURFACES				
	<u>Clean down with spirits of salts solution and apply two coats silicone-based brick dressing on:</u>				
29	Facings (Internally).	m2	1	75.00	75.00
30	Facings (Externally).	m2	1	75.00	75.00
	PAINTWORK TO PREVIOUSLY PAINTED WORK				
	ON FLOATED PLASTER				
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat PP700 gypsum and plaster primer and two coats "Plascon Velvagio" or equal approved emulsion paint for interior use</u>				
31	On internal walls	m2	1	75.00	75.00
	<u>Prepare and brush surface to remove all loose contaminants and apply one coat alkali resistant primer, and two coats "Plascon Wall 'n All" or equal approved emulsion paint for external use</u>				
32	On external walls	m2	1	75.00	75.00
	ON PLASTER BOARD				
	<u>Prepare, brush surface to remove all loose contaminants and apply one coat "Timesaver" or equal approved alkali resistant primer, and two coats "Plascon Polvin" or equal approved super acrylic PVA Colour: White</u>				
33	On ceilings and cornices	m2	1	75.00	75.00
	ON WOOD				
	<u>Prepare, brush surface to remove all loose contaminants, stain and apply one coat "Plascon Woodcare Pretreatment (WWP 1)" or equal approved , and three coats "Woodcare Wood Preservative (FPR1)" or equal approved preservative strictly in accordance with the Manufacturer's instructions</u>				
34	On doors	m2	1	75.00	75.00
35	Prepare existing timber floor surface and apply non slip floor wax or any approved coat	m2	1	135.00	135.00

	WALLS				
	<u>Thoroughly clean down and remove all grease, dirt and blemishes of all kinds, blisters, scaling, surface cracks and similar defects and leave the surfaces in a thoroughly clean, smooth and stable condition, ready for painting. Cracks, crevices, nail holes, etc shall be stopped with hard stopping. Old stoppings which have become loose shall be removed and the holes restopped. The final state of preparatory work shall be that which shall in all cases produce in the finished painted surface a condition similar to new work</u>				
	<u>Clean down and prepare existing surfaces and apply:</u>				
35	Two coats PVA acrylic emulsion paint internally to emulsion painted plastered walls	m2	1	75.00	75.00
36	Ditto but externally to emulsion painted plastered walls	m2	1	75.00	75.00
37	Two coats matt polyurethane enamel to enamel painted face brick walls	m2	1	75.00	75.00
38	Ditto but internally to enamel painted plastered walls	m2	1	75.00	75.00
39	Ditto but externally to enamel painted plastered walls	m2	1	75.00	75.00
40	Two coats matt polyurethane enamel to enamel painted bagged walls	m2	1	75.00	75.00
41	Two coats limewash to limewashed bagged walls internally and or externally	m2	1	75.00	75.00
42	Two coats high build, solvent free epoxy protective paint internally to emulsion painted plastered walls	m2	1	75.00	75.00
	ROOFS				
	<u>Clean down existing painted surfaces, remove all loose and flaking paint, prepare and apply appropriate primers, one undercoat and two finishing coats gloss enamel paint on:</u>				
43	Fibre cement bargeboards	m	1	60.00	60.00
44	Ditto but fascia boards	m	1	60.00	60.00
45	Timber bargeboards	m	1	60.00	60.00
46	Ditto but fascia boards	m	1	60.00	60.00
47	Exposed eaves timbers	m2	1	75.00	75.00
48	Exposed structural steelwork generally	m2	1	75.00	75.00
49	Fibre cement gutters	m	1	60.00	60.00
50	Ditto but downpipes	m	1	60.00	60.00
51	Galvanised sheet iron gutters	m	1	60.00	60.00
52	Ditto but downpipes	m	1	60.00	60.00
	<u>Clean down existing painted surfaces, remove all loose and flaking paint and prepare and apply two coats aluminium roof paint on:</u>				
53	Corrugated galvanised iron roof sheeting	m2	1	120.00	120.00
	<u>Clean down existing painted surfaces, prepare and apply one coat carbolineum wood preservative on:</u>				
54	Exposed roof timbers	m2	1	85.00	85.00
	Sundry repairs				
55	"Sealoflex" or equal approved sealing to small hole in fibre reinforced cement corrugated roof sheeting	No	1	35.00	35.00
56	Ditto to steel corrugated roof sheeting	No	1	35.00	35.00
57	Sealing and leave watertight joints to existing gutters with bitument compound or equal approved including all necessary fittings	No	1	35.00	35.00
	Carried to Final Summary			R	4,100.00

BILL NO. 20					
PAPERHANGING					
PREAMBLES					
The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.					
PAPERHANGING TO NEW WORK					
Paper backed vinyl wallpaper (PC R 1 000 per roll 530mm wide x 10m long), including one coat preparatory emulsion paint					
1	On one coat plastered walls and columns including narrow widths	m2	1	427.00	427.00
2	On two coat plastered walls and columns including narrow widths	m2	1	406.00	406.00
3	On drywall partitions including narrow widths	m2	1	406.00	406.00
Paper backed vinyl wallpaper (PC R 800 per roll 530mm wide x 10m long), including one coat preparatory emulsion paint					
4	On one coat plastered walls and columns including narrow widths	m2	1	327.00	327.00
5	On two coat plastered walls and columns including narrow widths	m2	1	360.00	360.00
6	On drywall partitions including narrow widths	m2	1	360.00	360.00
Paper backed vinyl wallpaper (PC R 600 per roll 530mm wide x 10m long), including one coat preparatory emulsion paint					
7	On one coat plastered walls and columns including narrow widths	m2	1	280.00	280.00
8	On two coat plastered walls and columns including narrow widths	m2	1	316.00	316.00
9	On drywall partitions including narrow widths	m2	1	316.00	316.00
Borders and motifs					
10	100mm Wide borders (PC R 300 per roll of 100m)	m	1	124.00	124.00
PAPERHANGING TO EXISTING WORK					
Preparatory work to previously painted surfaces					
Surfaces shall be thoroughly washed down and allowed to dry completely before paperhanging is commenced. Blistered and peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth. All surfaces shall be painted with a single coat of interior quality PVA emulsion paint					
Paper backed vinyl wallpaper (PC R 1 000 per roll 530mm wide x 10m long), on previously painted surfaces, including one coat preparatory emulsion paint					
11	On walls and columns including narrow widths	m2	1	395.00	395.00
12	On drywall partitions including narrow widths	m2	1	395.00	395.00
Paper backed vinyl wallpaper (PC R 600 per roll 530mm wide x 10m long), on previously painted surfaces, including one coat preparatory emulsion paint					
13	On walls and columns including narrow widths	m2	1	282.00	282.00
14	On drywall partitions including narrow widths	m2	1	282.00	282.00
SUNDRIES					
Taking off and removing existing wallpaper and preparing for new finish					
15	Wallpaper on plastered walls and columns	m2	1	79.00	79.00
16	Wallpaper on drywall partitions	m2	1	79.00	79.00
Carried to Final Summary				R	4,834.00

BILL NO. 21					
EXTERNAL WORKS					
PREAMBLES					
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (1999 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.					
SUPPLEMENTARY PREAMBLES					
Proprietary products in descriptions:					
Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for the submission of tenders.					
Nature of material to be excavated:					
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in earth as specified, but including a percentage of excavation in soft rock and hard rock.					
Carting away of excavated material:					
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.					
Dewatering of excavations:					
The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise.					
Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water.					
Density testing on filling:					
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved.					
When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.					
SITE CLEARANCE ETC					
Site Clearance etc					
1	Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scoffling up as required and cart away all vegetation and debris.	m2	1	18.00	18.00
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	1	35.00	35.00
BULK EXCAVATION					
Open face excavation in earth over sloping site:					
3	Open face excavation and dispose within 1Km.	m3	1	80.00	80.00
EARTH FILLING, ETC.					
Filling with approved natural gravel material (G7) from commercial sources supplied and carted onto site by the Contractor and compacted to 93% Mod AASHTO density:					
4	Over site to form platforms.	m3	1	406.00	406.00
Surface Preparation:					
5	Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 150mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.	m2	1	57.00	57.00
Garden soil filling obtained from stock piles on site (not compacted):					
6	To embankments.	m3	1	75.00	75.00
Prescribed density tests on filling					
7	Modified AASHTO Density test.	No	1	542.00	542.00
8	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1.	No	1	680.00	680.00
9	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1.	No	1	680.00	680.00
10	Atterberg limits test in accordance with methods A2 to A4 of TMH1.	No	1	555.00	555.00

	<u>CONCRETE BLOCK EROSION PROTECTION</u>				
	<u>Technicrete Erosion Protection System or equal Architect approved</u>				
11	Grassframe Grey 400 x 600 x 100mm thick blocks on and including 25mm thick river bed sand on geofabric separator all laid on subgrade (by others) conforming to SABS1200D Degree Of Accuracy I (Edge beams and vegetation by others).	m2	1	430.00	430.00
12	Armorflex HLP Grey 100mm thick blocks on and including 25mm thick river bed sand on geofabric separator all laid on subgrade (by others) conforming to SABS1200D Degree Of Accuracy I (Edge beams and vegetation by others).	m2	1	440.00	440.00
13	Armorflex 215SP Grey blocks on and including 25mm thick river bed sand on geofabric separator including wiring up to manufacturer's specifications all laid on subgrade (by others) conforming to SABS1200D Degree Of Accuracy I (Edge beams and vegetation by others).	m2	1	440.00	440.00
14	Infrasat Infralok™ 150 Grey precast concrete erosion control system to horizontal areas, block size 452 x 320 x 150mm, laid in pattern 4 on and including 25mm thick river bed sand on geofabric separator all laid on subgrade (by others) conforming to SABS1200D Degree Of Accuracy I (Edge beams and vegetation by others).	m2	1	430.00	430.00
	<u>LANDSCAPING</u>				
	<u>Excavate in earth and dispose on site</u>				
15	Not exceeding 150mm deep to remove humps, form shallow ditches, etc	m2	1	80.00	80.00
	<u>Coarse river sand filling supplied by the contractor</u>				
16	Under floors etc	m3	1	430.00	430.00
17	Behind retaining walls	m3	1	430.00	430.00
18	In floor ducts	m3	1	430.00	430.00
	<u>Hardcore filling</u>				
19	Under floors etc	m3	1	440.00	440.00
	<u>Stone filling of 19mm broken stone</u>				
20	Under floors etc	m3	1	680.00	680.00
21	Behind retaining walls	m3	1	680.00	680.00
22	In flower boxes	m3	1	680.00	680.00
	<u>Compaction of surfaces</u>				
23	Compaction of ground surface under floors etc by wetting and compacting with 3 passes of a 10ton vibratory roller	m3	1	65.00	65.00
24	Compaction of ground surface under floors etc including scarifying for a depth of 250mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1	51.00	51.00
	<u>Ground preparation</u>				
25	Cultivation and preparation of areas to be planted	m2	1	34.00	34.00
	<u>Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling</u>				
26	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	1	90.00	90.00
27	In plant boxes, pots, etc	m3	1	90.00	90.00
	<u>Well sifted topsoil supplied by the contractor, including spreading and levelling</u>				
28	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	1	158.00	158.00
29	In plant boxes, pots, etc	m3	1	158.00	158.00
	<u>Garden soil supplied by the contractor (3 parts well sifted top soil, 1 part compost and 1 part milled pine bark), including spreading and levelling</u>				
30	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	1	170.00	170.00
31	In plant boxes, pots, etc	m3	1	170.00	170.00
	<u>Compost, lime and fertilizer</u>				
32	Compost in plant beds, holes for trees, shrubs, etc	m3	1	203.00	203.00
33	Compost in plant boxes, pots, etc	m3	1	203.00	203.00
34	Agricultural lime for trees, shrubs, ground covers, etc	kg	1	34.00	34.00
35	Super phosphate granular commercial fertilizer for trees, shrubs, ground covers, etc	kg	1	45.00	45.00
	<u>Mulch</u>				

36	25mm Thick mulch layer in plant beds between plants	m2	1	62.00	62.00
	<u>Shrubs, bulbs and plants</u>				
37	Abelia postrata (4l container)	No	1	338.00	338.00
38	Agapanthus spp "Blue" (2l container)	No	1	316.00	316.00
39	Bauhinia galpinii (4l container)	No	1	361.00	361.00
	<u>Trees</u>				
40	Acer palmatum 1 000mm high	No	1	677.00	677.00
41	Acacia melanoxylon 1 000mm high	No	1	677.00	677.00
	<u>Grassing, ground covers, etc</u>				
42	"Kikuyu" roots in rows at 250mm centres	m2	1	68.00	68.00
43	"Kikuyu" sods approximately 500 x 500 x 50mm thick	m2	1	68.00	68.00
44	"Kikuyu" rolls 50mm thick	m2	1	68.00	68.00
45	Asparagus densiflorus "Sprengeri" (0,5l container) (8/m²)	m2	1	80.00	80.00
46	Plumbago auriculata (0,5l container) (8/m²)	m2	1	80.00	80.00
	<u>Pruning of existing trees and shrubs</u>				
47	Pruning of existing acacia karroo tree approximately 1,5m high	No	1	30.00	30.00
48	Pruning of existing celtis africana tree approximately 1,5m high	No	1	30.00	30.00
	<u>Pebble covering</u>				
49	Covering of river stone pebbles varying in size from 20mm to 50mm diameter	m2	1	180.00	180.00
	<u>Rockery boulders</u>				
50	Rockery boulder approximately 400mm diameter obtained from stock piles on site	No	1	282.00	282.00
51	Rockery boulder approximately 400mm diameter supplied by the contractor	No	1	361.00	361.00
52	Roughly rectangular rockery boulder approximately 0,1m3 obtained from stock piles on site	No	1	282.00	282.00
53	Roughly rectangular rockery boulder approximately 0,1m3 supplied by the contractor	No	1	372.00	372.00
	<u>Maintenance</u>				
54	Allow for maintaining landscaping for a period of 3 months after practical completion, including watering, weeding, cutting, replacing dead plants, etc	Item	1	20,304.00	20,304.00
	<u>Fertilizing</u>				
55	Fertilizing garden soil with 28% Nitrogen mixture spread at a rate of 45g/m² and 3:2:1 fertilizer spread at a rate of 0.045kg/m² including working evenly into top 100mm depth of soil	m2	1	45.00	45.00
56	Fertilizing grassed areas with 3:2:1 fertilizer at a rate of 0.045g/m² after completion of planting	m2	1	45.00	45.00
	<u>Maintenance</u>				
57	Maintenance of grassed areas for a period of 3 months (total area approximately 15000m²) including regularly weeding and irrigating as necessary	M2 /WK	1	1,579.00	1,579.00
	<u>IRRIGATION SYSTEM</u>				
	<u>High density polyethylene class 10 type IV piping complying with SANS 533-1 with compression couplings</u>				
58	20mm Pipes laid in and including trenches approximately 100mm deep	m	1	80.00	80.00
	<u>Extra over polyethylene type IV pipes for compression fittings</u>				
59	20mm Fittings	No	1	34.00	34.00
	<u>Extra over polyethylene type IV pipes for composite fittings comprising galvanised and compression components</u>				
60	20mm Tee assembly	No	1	34.00	34.00
61	20mm Brass ball valve in and including suitable valve box	No	1	45.00	45.00
62	20mm Brass ball valve assembly with 20mm inlet and 20mm outlet	No	1	34.00	34.00
	<u>Microsprays</u>				
63	Mist microspray	No	1	56.00	56.00
	<u>Mist sprayers on riser pipes</u>				

64	Mist sprayer on 6mm pipe 300mm high	No	1	90.00	90.00
	<u>Pop-up sprayers</u>				
65	Pop-up mist sprayer on 20mm pipe	No	1	135.00	135.00
	<u>Pop-up sprinklers</u>				
66	Rotary pop-up sprinkler on 20mm pipe	No	1	147.00	147.00
	<u>Testing</u>				
67	Testing irrigation system	Item	1	3,950.00	3,950.00
	<u>STONE PITCHING</u>				
	<u>Stone pitching of approximately 225mm diameter river stones tightly packed including preparation of ground surface under</u>				
68	225mm Thick against sloping banks	m2	1	406.00	406.00
69	225mm Thick against sloping banks bedded and jointed in 1:8 cement mortar and pointed with hollow recessed joints	m2	1	429.00	429.00
	<u>GABIONS</u>				
	<u>Gabions of galvanised wire boxes laced together and filled with broken stone</u>				
70	1000mm Thick retaining wall of 2000 x 1000 x 1000mm boxes properly bonded	m3	1	475.00	475.00
71	Embankment protection 300mm thick of 2000 x 1000 x 300mm mattresses with diaphragm divisions at 2000mm centres butt jointed	m3	1	679.00	679.00
	<u>BENCHES, TABLES, ETC</u>				
	<u>Wilsonstone Stone Benches or equal similar Architect approved</u>				
72	Grey cement The Turin 1500mm stone bench.	No	1	4,738.00	4,738.00
73	Grey cement The Turin 1800mm stone bench.	No	1	5,381.00	5,381.00
74	The Roma stone bench.	No	1	5,753.00	5,753.00
	<u>Streetscape Steel Benches or equal Architect approved</u>				
75	Curve back Seat 1 800mm long	No	1	5,178.00	5,178.00
76	Bakoven Seat 1 500mm long	No	1	4,568.00	4,568.00
77	Purline bench 1 800mm long	No	1	5,302.00	5,302.00
	<u>INTERLOCKING BLOCK RETAINING STRUCTURES</u>				
	<u>Loffelstein precast concrete interlocking planter blocks finished smooth on exposed surfaces</u>				
78	Retaining structure with stepped face and curves as required to suit slopes comprising 500 x 450 x 170mm high type L500 standard interlocking planter blocks laid with horizontal bed joints to 70 degree slope including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds	m2	1	677.00	677.00
79	Retaining structure with stepped face and curves as required to suit slopes comprising 500 x 450 x 170mm high type L300 standard interlocking planter blocks laid with horizontal bed joints to 70degree slope including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds	m2	1	621.00	621.00
80	Extra over for row of planter blocks filled with 10MPa concrete	m	1	1,580.00	1,580.00
	<u>Terraforce precast concrete interlocking planter blocks</u>				
81	Retaining structure with stepped face and curves as required to suit slope comprising 400 x 200 x 200mm high type Four by Four interlocking planter blocks laid with horizontal bed joints to 70 degree slope including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds	m2	1	621.00	621.00
82	Retaining structure with stepped face and curves as required to suit slopes comprising type L13 interlocking planter blocks laid with sloping bed joints to 70 degree slope including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds	m2	1	542.00	542.00
	<u>FILTER FABRIC</u>				
	<u>Non-woven continuous filament needle punch polyester filter fabric weighing not less than 0.85 kg/m² with 100mm laps</u>				
83	Under stone filled gabions including preparing ground surface under	m2	1	45.00	45.00
84	Vertically behind stone filled gabion retaining walls	m2	1	45.00	45.00
85	Over stone percolation beds in flower boxes	m2	1	45.00	45.00

86	Around stone filling in sub-soil drain trenches	m2	1	45.00	45.00
<u>ROADWORK, PARKING AREAS AND PAVING</u>					
<u>Testing of material and filling</u>					
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series					
<u>Precast concrete block road surfacing</u>					
Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications					
Paving shall be laid to herringbone pattern on 20mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)					
Clean sand shall be swept into joints between roadstones at completion					
<u>Site clearance</u>					
87	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	1	20.00	20.00
<u>Open face excavation in earth over sloping site</u>					
88	Open face excavation to form platforms under parking areas etc and depositing excavated material over site, including haulage not exceeding 1 km from perimeter of excavations	m3	1	80.00	80.00
<u>Excavation in earth</u>					
89	Not exceeding 2m deep over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m3	1	126.00	126.00
90	300mm Deep over site between buildings, retaining walls, etc to remove top soil and dispose in prescribed stock piles on site	m2	1	80.00	80.00
<u>Extra over bulk excavation in earth for excavation in</u>					
91	Soft rock	m3	1	316.00	316.00
92	Hard rock	m3	1	885.00	885.00
<u>Extra over bulk excavation in earth for breaking up and removing</u>					
93	Brickwork	m3	1	451.00	451.00
94	Unreinforced concrete	m3	1	587.00	587.00
95	Reinforced concrete	m3	1	654.00	654.00
<u>Extra over all excavations for carting away</u>					
96	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	200.00	200.00
<u>Keeping excavations free of water</u>					
97	Keeping excavations free of water other than subterranean water	Item	1	1,692.00	1,692.00
<u>Compaction of surfaces</u>					
98	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m2	1	45.00	45.00
99	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 200mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	1	45.00	45.00
<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:</u>					
100	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	1	40.00	40.00
<u>Layer works</u>					
<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site</u>					
101	Under road islands etc, compacted to 93% Mod AASHTO density	m3	1	147.00	147.00
102	Subbase course under parking areas etc, compacted to 93 % Mod AASHTO density	m3	1	152.00	152.00
103	Base course under parking areas etc, compacted to 93 % Mod AASHTO density	m3	1	158.00	158.00
<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage approximately 2000 m from perimeter of excavations and/or stock piles</u>					

104	Under road islands etc, compacted to 93% Mod AASHTO density	m3	1	147.00	147.00
105	Subbase course under parking areas etc, compacted to 93% Mod AASHTO density	m3	1	160.00	160.00
106	Base course under parking areas etc, compacted to 93% Mod AASHTO density	m3	1	160.00	160.00
	<u>Filling supplied by the contractor under parking areas, roadways, etc</u>				
107	G7 gravel-soil material compacted to 93% Mod AASHTO density	m3	1	361.00	361.00
108	G8 gravel-soil material compacted to 93% Mod AASHTO density	m3	1	361.00	361.00
109	G9 gravel-soil material compacted to 93% Mod AASHTO density	m3	1	361.00	361.00
110	Subbase course of G4 natural gravel material, compacted to 93% Mod AASHTO density	m3	1	384.00	384.00
111	Subbase course of G5 natural gravel material, compacted to 93% Mod AASHTO density	m3	1	447.00	447.00
112	Subbase course of G6 natural gravel material, compacted to 93% Mod AASHTO density	m3	1	406.00	406.00
113	Base course of G4 natural gravel material, compacted to 93% Mod AASHTO density	m3	1	384.00	384.00
114	Base course of G5 natural gravel material, compacted to 93% Mod AASHTO density	m3	1	406.00	406.00
115	Base course of G6 natural gravel material, compacted to 93% Mod AASHTO density	m3	1	406.00	406.00
116	Extra over subbase or base course of natural gravel material for stabilisation with lime (cement)	m3	1	372.00	372.00
117	Base course of G2 graded crushed stone, compacted to 93% MOD AASHTO density	m3	1	429.00	429.00
118	Base course of G1 graded crushed stone, compacted to 93% MOD AASHTO density	m3	1	429.00	429.00
	<u>Additional tests required by the principal agent</u>				
119	In-situ dry density test in accordance with method A10(b) of TMH1	No	1	677.00	677.00
120	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH1	No	1	677.00	677.00
121	Atterberg limits test in accordance with methods A2 to A4 of TMH1	No	1	508.00	508.00
122	CBR test in accordance with method A8 of TMH1	No	1	677.00	677.00
123	UCS test in accordance with method A14 of TMH1	No	1	508.00	508.00
	<u>Bituminous premix road surfacing</u>				
124	25mm Thick paving to parking areas, roadways, etc including bitumin spray to base course	m2	1	203.00	203.00
	<u>25MPa/19mm reinforced concrete</u>				
125	Paving to parking areas, roadways, etc in panels between construction joints etc	m3	1	2,369.00	2,369.00
126	Edging to kerbs etc	m3	1	2,369.00	2,369.00
	<u>Premix Wearing course:</u>				
127	30mm Hot Premix wearing course of continuously graded Asphalt compacted to 95% Marshall density.	m2	1	203.00	203.00
	<u>Precast concrete kerbing (complying with SABS 927) in 1m lengths, wet presses, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 150 x 150 x 300mm 15MPa/19mm unreinforced concrete haunching at back of each joint, excavation, backfilling, ramming, etc.:</u>				
128	Kerb Fig 3 (350 x 150mm) with fig 14 Combination Channel (300 x 125mm) as per SABS 927-1967.	m	1	243.00	243.00
129	Ditto but circular on plan.	m	1	254.00	254.00
130	V Drain comprising Precast Concrete (Fig 14) Tapered Kerb size 300 x 125mm high.	m	1	288.00	288.00
	<u>Finishing top surfaces of concrete with a power float and a coarse hard grass broom</u>				
131	Paving to parking areas, roads, etc to falls	m2	1	50.00	50.00
132	Edging to kerbs etc not exceeding 300mm wide	m2	1	50.00	50.00
	<u>Saw-cut joints</u>				
133	5 x 40mm Saw-cut joints in top of concrete	m	1	45.00	45.00
134	5 x 40mm Saw-cut joints with bevelled top corners in top of concrete	m	1	50.00	50.00
	<u>Expansion joints with 12mm softboard through concrete paving</u>				
135	Paving not exceeding 300mm thick	m	1	50.00	50.00
	<u>Vertical joggle construction joints through concrete, including thick cement slurry to one face</u>				
136	Paving not exceeding 300mm thick	m	1	55.00	55.00

	<u>Fabric reinforcement</u>				
137	Type 193 fabric reinforcement in concrete paving etc	m2	1	102.00	102.00
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
138	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	1	215.00	215.00
139	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, circular on plan exceeding 4m radius, formed with straight kerbs, including excavation, backfilling, etc	m	1	220.00	220.00
140	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, circular on plan not exceeding 4m radius, formed with short lengths of straight kerbs, including excavation, backfilling, etc	m	1	226.00	226.00
	<u>Two-part grey polysulphide sealing compound, including backing cord, bond breaker, primer, etc</u>				
141	5 x 40mm In saw-cut joints	m	1	45.00	45.00
142	5 x 40mm In saw-cut joints with bevelled top corners	m	1	51.00	51.00
143	5 x 40mm In expansion joints, including raking out expansion joint filler as necessary	m	1	51.00	51.00
	<u>Road signs</u>				
144	Standard "STOP" sign with 50mm diameter galvanised mild steel post bedded in and including unreinforced concrete base, including any necessary excavation, paint finish, etc	No	1	982.00	982.00
	<u>Paintwork</u>				
	<u>Two coats reflective road marking paint on tarmacadam, etc</u>				
145	Line 200mm wide	m	1	50.00	50.00
146	Numerical or letter 1 000mm high	No	1	1,038.00	1,038.00
147	Traffic arrow 600 x 1 000mm wide extreme	No	1	1,094.00	1,094.00
148	Apply cement bitumen slush on existing hard surface	m2	1	135.00	135.00
149	Apply self leveling epoxy paint 3 to 5mm thick	m2	1	102.00	102.00
150	Apply one under coat and two finishing coats of road making paint on existing tennis court or hard surface	m2	1	90.00	90.00
	<u>PAVING ETC</u>				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Quarry tiles, cement, terrazzo and similar tiles, precast concrete bricks, blocks, etc</u>				
	Tiles shall be of approved manufacture, well burnt or cured, and uniform and true in size, shape and colour				
	<u>Preparation of concrete floor beds, slabs, etc for pavings</u>				
	Concrete surfaces shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. Surfaces shall then be wetted and kept damp for at least six hours before slushing with 1:2 cement/sand and while still wet, pavings, etc shall be laid on a 1:4 cement mortar bed not exceeding 25mm thick and jointed and pointed with hollowed joints. Sand shall be clean, sharp river sand				
	<u>Paving of 200 x 100 x 80mm high interlocking concrete paving bricks (Grade 25MPa) on 30mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>				
151	Paving	m2	1	385.00	385.00
	<u>Paving of 200 x 100 x 60mm thick precast concrete paving blocks with butt joints on 10mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>				
152	Paving in stretcher bond	m2	1	367.00	367.00
153	Paving in stretcher bond to falls	m2	1	378.00	378.00
154	Fair circular cutting	m	1	125.00	125.00
155	220mm Wide brick-on-flat header course edgings on 10mm thick mortar bed, including necessary excavation	m	1	160.00	160.00
156	220mm Wide brick-on-edge header course edgings on 10mm thick mortar bed, including necessary excavation	m	1	160.00	160.00

<u>Corobrik "Burgundry Piazza" Paver Size 210 x 60 x 60mm Class PA or equal Architect approved paver on 10mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>					
157	Paving in stretcher bond	m2	1	412.00	412.00
158	Paving in stretcher bond to falls	m2	1	418.00	418.00
159	Fair circular cutting	m	1	125.00	125.00
<u>Corobrik "Ironstone" Paver Size 200 x 98,5 x 50mm Class PB or equal Architect approved paver on 10mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>					
160	Paving in stretcher bond	m2	1	418.00	418.00
161	Paving in stretcher bond to falls	m2	1	423.00	423.00
162	Fair circular cutting	m	1	110.00	110.00
<u>Corobrik "Tuscan Blend" Paver Size 220 x 108,5 x 65mm Class PA or equal Architect approved paver on 10mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>					
163	Paving in stretcher bond	m2	1	418.00	418.00
164	Paving in stretcher bond to falls	m2	1	423.00	423.00
165	Fair circular cutting	m	1	125.00	125.00
<u>Corobrik "Onyx Piazza" Paver Size 210 x 60 x 60mm Class PA or equal Architect approved paver on 10mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u>					
166	Paving in stretcher bond	m2	1	429.00	429.00
167	Paving in stretcher bond to falls	m2	1	429.00	429.00
168	Fair circular cutting	m	1	125.00	125.00
<u>STORMWATER DRAINAGE</u>					
<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Concrete pipes:</u>					
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.					
<u>Exposed concrete surfaces:</u>					
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.					
<u>Excavations:</u>					
No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.					
Soft rock and hard rock shall be as defined in Earthworks.					
<u>Laying, backfilling, bedding, etc of pipes:</u>					
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.					
Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.					
Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding.					
<u>Descriptions of pipes laid in trenches:</u>					
Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor. Note minimum width of trench is 500mm on either side of pipe.					
<u>Descriptions of catchpits, junction boxes, manholes, etc:</u>					
Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.					
<u>In situ concrete channels:</u>					

169	25MPa concrete 900 x 200mm V' channel 100mm deep in centre laid in position in ground in 2000mm sections including all excavations, ramming, trimming, formwork, reinforcement, expansion joints, floating etc	m	1	395.00	395.00
170	Extra 900 x 200mm for angles, intersections, ends, dressing into sides of catchpits, etc.	No	1	474.00	474.00
<u>Precast Concrete Channels</u>					
171	Half round channel, 290mm wide, laid in accordance with SANS 1200 MK.	m	1	203.00	203.00
172	Half round channel, 450mm wide, laid in accordance with SANS 1200 MK.	m	1	254.00	254.00
173	Half round channel, 525mm wide, laid in accordance with SANS 1200 MK.	m	1	271.00	271.00
174	300mm channel, 440mm wide, laid in accordance with SANS 1200 MK.	m	1	250.00	250.00
<u>The following in Precast "Dog Bone" drainage cover units</u>					
175	Concrete dog bone cover units with overall length and width of 510 x 155mm	No	1	181.00	181.00
<u>uPVC pipes</u>					
176	160mm Dia stormwater pipe n.e 1.5m deep.	m	1	260.00	260.00
<u>Class 100D concrete pipes:</u>					
177	300mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	666.00	666.00
178	375mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	756.00	756.00
179	450mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	925.00	925.00
180	525mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	1,083.00	1,083.00
181	600mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	1,354.00	1,354.00
182	750mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	1,579.00	1,579.00
183	900mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep.	m	1	1,861.00	1,861.00
<u>Manholes:</u>					
184	Manhole size 740 x 740mm exceeding 1m deep internally to invert level formed of hard burnt one brick sides in 1:3 cement mortar on and including 200mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom reinforced with Y10 bars at 200c/c both directions and projecting 150mm beyond sides, cast on 50mm thick concrete Blinding (15Mpa) and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with with C.I step irons staggered at 300c/c with 150mm thick grade 25 reinforced precast concrete manhole cover rebated for and fitted with and including cast iron double seal cover and frame type 14B in accordance with SABS 558, bedded in 1:3 cement mortar and sealed in to allow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	1	4,512.00	4,512.00
185	Ditto exceeding 1m but not 2m deep	No	1	8,798.00	8,798.00
<u>Sumps, catchpits, inspection chambers, etc.</u>					
186	Catchpit 1160x 600mm and not exceeding 1000mm deep internally with 600x600mm grating and frame	No	1	3,610.00	3,610.00
187	Kerb inlet Complete overall size 6000 x 1 200mm and not exceeding 750mm deep internally	No	1	8,234.00	8,234.00
188	Kerb inlet Complete overall size 6000 x 1 200mm and exceeding 750mm and not exceeding 1 500mm deep internally	No	1	9,249.00	9,249.00
189	Brick rainwater sump size internally 450 mm x 450 mm and not exceeding 750 mm deep to invert, the top rebated for and including 450 mm x 450 mm x26 kg cast iron dished grating and frame or equal approved concrete slab cover	No	1	3,158.00	3,158.00
190	Catchpit chamber 750 mm diameter exceeding 1000 mm and not exceeding 1250 mm deep to invert with 750 mm diameter precast concrete shaft rings as walling including cast iron step irons cast in at 300 mm centres built on and including 150 mm thick prescribed mix concrete class C base and benching and 100 mm thick precast concrete reducer slab with 450 mm x 600 mm opening with 100 mm thick reinforced slab over, rebated for and including 450 mm x 600 mm x 38 kg single seal cast iron manhole cover and frames or equal approved concrete slab cover	No	1	4,738.00	4,738.00
191	Brick catchpit size internally 450 x 600 mm and not exceeding 750 mm deep to invert, the top rebated for and including 450 x 600 x 45 kg single seal cast iron manhole cover and frame or equal approved concrete slab cover	No	1	3,384.00	3,384.00
192	Ditto but exceeding 750 mm and not exceeding 1000 mm deep to invert	No	1	3,722.00	3,722.00
193	Brick catchpit chamber size internally 600 x 900 exceeding 1000 mm and not exceeding 1250 mm deep to invert the top rebated for and including 600 x 900 x 93 kg single seal cast iron manhole cover and frame or equal approved concrete slab cover	No	1	4,117.00	4,117.00
194	Ditto but exceeding 1250 mm and not exceeding 1500 mm deep to invert	No	1	4,850.00	4,850.00
195	Brick catchpit chamber size internally 900 x 900 exceeding 1500 mm and not exceeding 1750 mm deep to invert, the top rebated for and including 600 x 900 x 93 kg single seal cast iron manhole cover and frame or equal approved concrete slab cover	No	1	4,647.00	4,647.00

196	Ditto but exceeding 1750 mm and not exceeding 2000 mm deep to invert, the top rebated for and including 550 mm diameter x 190 kg cast iron road manhole cover and frame or equal approved concrete slab cover	No	1	4,912.00	4,912.00
	<u>Gabions</u>				
197	Excavate not exceeding 1m deep.	m3	1	80.00	80.00
198	Risk of collapse exceeding 1,5m deep.	m2	1	75.00	75.00
199	Extra over all excavations for loading, carting and dumping surplus excavated material to site located by the contractor.	m3	1	199.00	199.00
200	Trim and level off surface of ground affected by excavations including compacting the whole area for a depth of 150mm to a density of at least 90% Mod. AASHTO maximum density.	m2	1	56.00	56.00
201	Backfill under lined drain with imported fill and compacted to 90% Mod AASHTO.	m3	1	90.00	90.00
202	Gabions mattresses made of 80mm x 100mm x 2.5mm Galvanised Hexagonal mesh wire and PVC coated wire boxes laced together and filled with broken stone.	m3	1	541.00	541.00
	<u>WORK TO EXISTING</u>				
	<u>Catchpits, ect</u>				
203	Excavate for, break up and remove existing brick catchpit including backfilling on completion in well compacted layers not exceeding 150 mm thick to 90% Mod AASHTO	m3	1	135.00	135.00
204	Excavate for and repair damaged/cracked one -brick side of catchpit including cleaning debris from inside manhole, rendering internally and backfilling around catchpit	m2	1	458.00	458.00
205	Break up and remove existing 600 x 600 x 100 mm thick reinforced concrete cover slab, rebated for and including new 450 x 600 x 45 kg single seal cast iron manhole cover and frame or equal approved concrete slab cover	No	1	1,015.00	1,015.00
206	Replace missing or broken dished cast iron grating and frame size 150 x 150 x 2 kg or equal approved concrete slab cover	No	1	553.00	553.00
207	Ditto but size 300 x 300 x 85mm thick or equal approved concrete slab cover	No	1	677.00	677.00
208	Ditto but size 450 x 450 mm x 26 kg or equal approved concrete slab cover	No	1	959.00	959.00
209	Replace missing or broken single seal cast iron manhole cover and frame size 450 x 600 mm x 45 kg or equal approved concrete slab cover	No	1	1,748.00	1,748.00
210	Ditto but size 600 x 600 mm x 82 kg or equal approved concrete slab cover	No	1	1,895.00	1,895.00
211	Ditto but size 900 x 900 mm x 171 kg or equal approved concrete slab cover	No	1	2,030.00	2,030.00
212	Scrape out and remove debris, silt, etc from stormwater pipes and flush out with clean water on completion	m	1	155.00	155.00
213	Search for and remove blockage in stormwater pipe and flush out with clean water on completion	No	1	400.00	400.00
214	Clean out and remove debris and silt, ect from stormwater inspection chamber or sump and flush out with clean water on completion	No	1	650.00	650.00
	<u>BULK SEWER RETICULATION</u>				
	<u>Earthworks for soil drainage:</u>				
215	Excavation not exceeding 2m deep for pipe trenches.	m3	1	130.00	130.00
216	Extra over excavation in soft rock.	m3	1	320.00	320.00
217	Extra over excavation in hard rock.	m3	1	885.00	885.00
218	Selected Backfill material from excavations to drain ppies compacted to 93% Mod ASSHTO density.	m3	1	90.00	90.00
219	Imported bedding supplied by the Contractor compacted to 98% Mod ASSHTO density (class A material) to pipe trenches.	m3	1	406.00	406.00
220	Selected sand filling supplied by the Contractor in bedding under and filling around pipes compacted to 95%MODAASHTO.	m2	1	360.00	360.00
221	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk) to a dumping site to be found by the Contractor.	m3	1	200.00	200.00
	<u>uPVC Class 34 pipes:</u>				
222	110mm Pipe and fixing vertically or raking in ramps (no excavation)	m	1	180.00	180.00
223	110mm Pipe and excavation not exceeding 1m deep	m	1	160.00	160.00
224	160mm Pipe and excavation exceeding 1m and not exceeding 2m deep	m	1	260.00	260.00
	<u>Extra over uPVC pipes for fittings</u>				
225	110mm uPVC Access Bend.	No	1	145.00	145.00

226	110mm uPVC Access junction.	No	1	145.00	145.00
227	160mm uPVC Access Bend.	No	1	220.00	220.00
228	160 x 110mm Reducing junction.	No	1	230.00	230.00
<u>French Drains, Septic Tanks, etc</u>					
229	Excavate for and form French drain	m3	1	2,820.00	2,820.00
230	Excavate for and build septic tank overall size internally 3,50 x 1,25 x 2 m deep constructed of 100 mm thick prescribed mix concrete class B bottom projecting 75 mm beyond walls all round; one brick perimeter and half brick cross walls in 5:1 cement mortar forming two equal compartment and with 150 x 150 mm opening through the cross wall; the bottom and sides rendered internally in 3:1 cement plaster with steel float finish and the tank with a 150 mm thick strength concrete class 25 MPa/19 mm cover slab over, reinforced as necessary and including all formwork and with two 450 x 600 rebated openings through the cover slab for and including 450 x 600 x 72 kg double seal cast iron manhole covers and frames or equal approved concrete slab cover, with two 1 m lengths of 110 uPVC piping with junction at ends built through one brick wall and jointed to 110 uPVC pipes, the top of the cover slab 150 mm deep below ground level including earth filling over and disposal of excavated soil around site.	No	1	65,000.00	65,000.00
231	Encase 110 mm diameter horizontal pipe unreinforced concrete not less than 110 mm thick all round including all necessary formwork ect.	m	1	550.00	550.00
232	Ditto but 160mm diameter horizontal pipe	m	1	720.00	720.00
<u>PVC gulleys:</u>					
233	200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gulley (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.	No	1	2,400.00	2,400.00
<u>The following in precast concrete manholes.</u>					
234	Inspection chamber 1 050mm diameter exceeding 500mm and not exceeding 1 000mm deep internally, formed of standard precast walling sections to suite height built on 25 MPa base and benching latter finished with 25mm thick grano sloped at 1:6, half round vitrified clay or other approved channel inverts,including 150mm cover slab and light duty frame and manhole cover as per Drawing No. 2015 32_TP_02 attached to these Bills of Quantities	No	1	6,400.00	6,400.00
235	Inspection chamber 1 050mm diameter exceeding 1000mm and not exceeding 1500mm deep internally, formed of standard precast walling sections to suite height built on 25 MPa base and benching latter finished with 25mm thick grano sloped at 1:6, half round vitrified clay or other approved channel inverts,including 150mm cover slab and light duty frame and manhole cover as per Drawing No. 2015 32_TP_02 attached to these Bills of Quantities	No	1	6,880.00	6,880.00
236	Inspection chamber 1 050mm diameter exceeding 1500mm and not exceeding 2000mm deep internally, formed of standard precast walling sections to suite height built on 25 MPa base and benching latter finished with 25mm thick grano sloped at 1:6, half round vitrified clay or other approved channel inverts,including 150mm cover slab and light duty frame and manhole cover as per Drawing No. 2015 32_TP_02 attached to these Bills of Quantities	No	1	7,560.00	7,560.00
<u>Sundries:</u>					
237	Unreinforced concrete encasing to 110mm vertical bend.	No	1	165.00	165.00
238	300 x 300 x 75mm Precast concrete inspection eye marker slab set in ground.	No	1	1,075.00	1,075.00
239	Unreinforced concrete encasing to 160mm horizontal pipe.	m	1	361.00	361.00
<u>Testing</u>					
240	Testing sewer pipe system	Item	1	4,000.00	4,000.00
<u>WORK TO EXISTING</u>					
<u>Inspection Chambers</u>					
241	Excavate for, break up and remove existing brick inspection chamber, including backfilling on completion in well compacted layers not exceeding 150 mm thick to 90% Mod AASHTO	m3	1	135.00	135.00
242	Excavate for and repair damaged /cracked one-break side of inspection chamber including clearing of debris from inside manhole rendering internally and backfilling around catchpit	m2	1	406.00	406.00
243	Replace missing or broken double seal cast iron manhole cover and frame size 450 x 600 m x 72 kg or equal approved concrete slab cover	No	1	215.00	215.00
244	Ditto but size 600 x 600 mm x 124 kg or equal approved concrete slab cover	No	1	237.00	237.00
245	Ditto but size 600 x 760 x 154 kg or equal approved concrete slab cover	No	1	295.00	295.00
246	Break up and remove existing 600 x 600 x 100 mm thick manhole cover slab, frame and cover and replace with new 100 mm thick reinforced concrete cover slab, rebated for and including new 450 x 600 mm x 72 kg double seal cast iron manhole cover and frame or equal approved concrete slab cover	No	1	1,015.00	1,015.00
247	Scrape out and remove debris, sewage, ect from underground sewer pipe and flush with clean water on completion	m	1	35.00	35.00

248	Search for and remove blockage in underground sewer pipe and flush out with clean water on completion	m	1	400.00	400.00
249	Clean out and remove debris, sewage, ect from sewer inspection chamber and flush out with clean water on completion	No	1	135.00	135.00
250	Pump out and remove contents of existing septic tank including cartage not exceeding 150 km by honey sucker to the nearest sewerage treatment plant for disposal	m3	1	565.00	565.00
<u>FENCING AND GATES</u>					
<u>Site beacons, driveways, etc</u>					
In taking down and removing existing fences or during the erection of new fences the greatest care must be taken to avoid any damage or interference to site beacon, driveways or neighbouring properties The contractor will be held solely responsible for any damage to the above items and for the safety thereof throughout the whole contract and must make good at his own expense any damage or disturbance that may occur Plot pegs, corner beacons or other survey marks will be pointed out to the Contractor 7 days prior to work commencing on the respective site. The dates will be determined by the program for works submitted by the contractor					
<u>Diamond Mesh Fencing</u>					
<u>Workmanship and finishing in general</u>					
1,8m high x 65mm mesh x 2mm diameter galvanised chain link mesh with and including four rows of 3,15mm diameter galvanised stretching wire, 2mm diameter galvanised binding wires					
1,8m high x 65mm mesh x 2mm diameter galvanised chain link mesh with and including four rows of 3,15mm diameter galvanised stretching wire, 2mm diameter galvanised binding wires (all mesh and wires to be coated with not less than 0,75mm green PVC Paint)					
<u>Barbed Wire</u>					
3 No strands of 1,6mm galvanised double strand barbed wire fixed with 2mm diameter galvanised binding wire					
<u>Galvanised Straining Posts and Corner Posts</u>					
76 x 3mm x 1,8m long round tubing straining post at 15m c/c buried in 20Mpa concrete holes being 300mm x 300mm x 600mm deep with base plate, size 150mm x 150 mm by 3mm thick including all excavations and form work where necessary etc					
<u>Gate Posts</u>					
76 x 3mm x 1,8m long round tubing gate post buried in 20Mpa concrete holes being 300mm x 300mm x 600mm deep with base plate, size 150mm x 150 mm by 3mm thick including all excavations and form work where necessary etc					
<u>Galvanised Intermediate Posts</u>					
60 x 3mm x 1,8m long round tubing straining post at 3m c/c buried in 20Mpa concrete holes being 300mm x 300mm x 600mm deep with base plate, size 150mm x 150 mm by 3mm thick including all excavations and form work where necessary etc.					
<u>Stays and Anchors</u>					
42 x 3mm x 1,8m long round tubing stay/anchor post at 15m c/c buried in 20Mpa concrete holes being 300mm x 300mm x 600mm deep with base plate, size 150mm x 150 mm by 3mm thick including all excavations and form work where necessary etc					
<u>Pedestrian Gate</u>					
251	Pedestrian gate size 1.8m high x 1m wide constructed of 38mm diameter x 2mm thick galvanized tubular still framing and braces filled in with diamond mesh to match fencing, fixed with four strands of 3,15mm diameter straining wire with 2,0mm galvanized binding wire at 450mm centres, including three strands of 1,6 mm diameter galvanized double stranded barbed wire fixed to two 27mm welded to top of framing and with and including suitable hinges, locking plates, and all necessary fittings	No	1	3,500.00	3,500.00
252	Ditto, but 1,8m high x 1.5m wide	No	1	4,000.00	4,000.00
253	Pedestrians gate 2.1m high x 1m wide as described complete with posts and concrete bases	No	1	4,000.00	4,000.00
254	Ditto, but 2,1m high x 1,5 m wide	No	1	4,500.00	4,500.00
255	Pedestrians gate 2.4m high x 1m wide as described complete with posts and concrete bases	No	1	4,500.00	4,500.00
256	Ditto, but 2,4m high x 1,5m wide	No	1	4,500.00	4,500.00
257	Pedestrians gate 3m high x 1m wide as described complete with posts and concrete bases	No	1	4,800.00	4,800.00
258	Ditto, but 3m high x 1,5m wide	No	1	5,080.00	5,080.00
<u>Vehicle Gate</u>					

	Double gate size overall 1,8m high x 3m wide constructed of 43mm diameter x 2mm thick galvanised tubular steel framing and braces filler in with diamond mesh to match fencing, fixed with four strands of 3,15mm diameter straining wire with 2mm diameter galvanised binding wire at galvanised double stranded barbed wire fixed to six 27mm diameter x 400mm high galvanized mild steel supports welded to top of framing and with and including suitable hinges, locking plates, drop bolts, and all necessary fittings	No	1	8,500.00	8,500.00
259		No	1	8,500.00	8,500.00
260	Ditto, but 1,8m high x 4m wide	No	1	9,600.00	9,600.00
261	Ditto, but 1,8m high x 5m wide	No	1	11,300.00	11,300.00
262	Ditto, but 1,8m high x 6m wide	No	1	13,000.00	13,000.00
263	Ditto, but 1,8m high x 7m wide	No	1	14,700.00	14,700.00
264	Ditto, but 1,8m high x 8m wide	No	1	17,000.00	17,000.00
	Double gate size overall 2,1m high x 3m wide constructed of 43mm diameter x 2mm thick galvanised tubular steel framing and braces filler in with diamond mesh to match fencing, fixed with four strands of 3,15mm diameter straining wire with 2mm diameter galvanised binding wire at galvanised double stranded barbed wire fixed to six 27mm diameter x 400mm high galvanized mild steel supports welded to top of framing and with and including suitable hinges, locking plates, drop bolts, and all necessary fittings	No	1	11,900.00	11,900.00
265	Ditto, but 2,1m high x 4m wide	No	1	14,700.00	14,700.00
266	Ditto, but 2,1m high x 5m wide	No	1	16,400.00	16,400.00
267	Ditto, but 2,1m high x 6m wide	No	1	17,500.00	17,500.00
268	Ditto, but 2,1m high x 7m wide	No	1	18,600.00	18,600.00
269	Ditto, but 2,1m high x 8m wide	No	1	19,700.00	19,700.00
	Double gate size overall 2,4m high x 3m wide constructed of 43mm diameter x 2mm thick galvanised tubular steel framing and braces filler in with diamond mesh to match fencing, fixed with four strands of 3,15mm diameter straining wire with 2mm diameter galvanised binding wire at galvanised double stranded barbed wire fixed to six 27mm diameter x 400mm high galvanized mild steel supports welded to top of framing and with and including suitable hinges, locking plates, drop bolts, and all necessary fittings	No	1	14,664.00	14,664.00
270		No	1	14,664.00	14,664.00
271	Ditto, but 2,4m high x 4m wide	No	1	15,800.00	15,800.00
272	Ditto, but 2,4m high x 5m wide	No	1	17,000.00	17,000.00
273	Ditto, but 2,4m high x 6m wide	No	1	18,000.00	18,000.00
274	Ditto, but 2,4m high x 7m wide	No	1	19,180.00	19,180.00
275	Ditto, but 2,4m high x 8m wide	No	1	20,300.00	20,300.00
	Double gate size overall 3m high x 3m wide constructed of 43mm diameter x 2mm thick galvanised tubular steel framing and braces filler in with diamond mesh to match fencing, fixed with four strands of 3,15mm diameter straining wire with 2mm diameter galvanised binding wire at galvanised double stranded barbed wire fixed to six 27mm diameter x 400mm high galvanized mild steel supports welded to top of framing and with and including suitable hinges, locking plates, drop bolts, and all necessary fitting	No	1	16,356.00	16,356.00
276		No	1	16,356.00	16,356.00
277	Ditto, but 3m high x 4m wide	No	1	17,500.00	17,500.00
278	Ditto, but 3m high x 5m wide	No	1	18,600.00	18,600.00
279	Ditto, but 3m high x 6m wide	No	1	19,740.00	19,740.00
280	Ditto, but 3m high x 7m wide	No	1	20,868.00	20,868.00
281	Ditto, but 3m high x 8m wide	No	1	22,560.00	22,560.00
	<u>Supply and Install Fencing/Coated Mesh</u>				
282	1,8m high diamond mesh fencing	m	1	230.00	230.00
283	Ditto, but 1,8m high with barbed wire overhang, etc	m	1	250.00	250.00
284	2,1m high diamond mesh fencing	m	1	285.00	285.00
285	Ditto, but 2,1m high with barbed wire overhang, etc	m	1	338.00	338.00
286	2,4m high diamond mesh fencing	m	1	361.00	361.00
287	Ditto, 2,4m high with barbed wire overhang, etc	m	1	406.00	406.00
288	3m high diamond mesh fencing	m	1	434.00	434.00
289	Ditto for every extra 1m	m	1	170.00	170.00
290	Ditto, but 3m high with barbed wire overhang, etc	m	1	485.00	485.00
291	Medium density razor wire mesh fence 1,8m high with posts buried in 20mpa concrete holes being 300 x 300x 600mm deep	m	1	1,230.00	1,230.00
292	Ditto copper but 1,8m high with barbed wire overhang,etc	m	1	1,355.00	1,355.00

293	Medium density razor wire mesh fence 2,1m high with posts buried in 20mpa concrete holes being 300 x 300x 600mm deep	m	1	1,355.00	1,355.00
294	Ditto copper but 2,1m high with barbed wire overhang,etc	m	1	1,580.00	1,580.00
295	Medium density razor wire mesh fence 2,4m high with posts buried in 20mpa concrete holes being 300 x 300x 600mm deep	m	1	1,580.00	1,580.00
296	Ditto copper but 2,4m high with barbed wire overhang,etc	m	1	1,805.00	1,805.00
297	Medium density razor wire mesh fence 3m high with posts buried in 20mpa concrete holes being 300 x 300x 600mm deep	m	1	1,920.00	1,920.00
298	Ditto copper but 3m high with barbed wire overhang,etc	m	1	2,150.00	2,150.00
299	100-150 Diameter treated timber poles	No	1	226.00	226.00
300	76 x 3mm thick Straining Posts	No	1	451.00	451.00
301	100 x 3mm thick Straining Posts	No	1	565.00	565.00
302	76 x 3mm Corner Posts	No	1	451.00	451.00
303	76 X 3mm Gate Posts	No	1	450.00	450.00
304	100 x 3mm Gate Posts	No	1	565.00	565.00
305	150 x 3mm Gate Posts	No	1	761.00	761.00
306	60 x 3mm Intermediate Posts	No	1	255.00	255.00
307	76 x 3mm Intermediate Posts	No	1	451.00	451.00
308	42 x 3mm Stay/Anchor Posts	No	1	170.00	170.00
309	60 x 3mm Stay/Anchor Posts	No	1	255.00	255.00
310	76 x 3mm Stay/Anchor Posts	No	1	285.00	285.00
<u>Galvanised steel "Weldmesh" security fencing comprising 3,15mm diameter wires in 100 x 50mm rectangular pattern on posts (elsewhere)</u>					
311	Four strands of 4 mm galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	1	45.00	45.00
312	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	1	40.00	40.00
313	Fencing formed of 100 x 50 x 2.5mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres (straining wires elsewhere measured).	m	1	316.00	316.00
314	Fencing formed of 100 x 50 x 3.15mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres (straining wires elsewhere measured).	m	1	361.00	361.00
<u>Razor wire</u>					
315	Continuous razor wire security roll to top of fence flat wrapped in 500mm diameter rings fixed together and to 3,15mm straining wire	m	1	25.00	25.00
<u>Pre-stressed concrete 35MPa posts and stays size 75 x 75mm with four 5mm tensile reinforcing rods</u>					
316	Stay 2.4m long including epoxy grouting to vertical posts	No	1	735.00	735.00
317	Intermediate post 3.0m high	No	1	735.00	735.00
<u>Pre-stressed concrete 35MPa posts and stays size 100 x 100mm with four 5mm tensile reinforcing rods</u>					
318	Gate, straining or corner post 3.0m high	No	1	735.00	735.00
<u>The following in 15MPa/19mm concrete in bases</u>					
319	Unreinforced concrete ground beam 150 x 200mm with top finished flush with natural ground level, including excavations, carting away, formwork and 3,15mm galvanised wire loops cast into concrete at 500mm centres.	m	1	395.00	395.00
320	Unreinforced concrete fence post base size 400 x 400 x 500mm deep, including all necessary excavation, formwork, etc.	No	1	451.00	451.00
321	Unreinforced concrete fence post base size 500 x 500 x 600mm deep, including all necessary excavation, formwork, etc.	No	1	565.00	565.00
<u>Posts for 1 800mm high security fence:</u>					
322	76 mm Diameter galvanised steel intermediate fencing post 1800mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No	1	285.00	285.00

323	100 mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	1	925.00	925.00
324	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	1	1,070.00	1,070.00
325	12 mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	1	20.00	20.00
326	Form 12mm diameter hole through fence post.	No	1	15.00	15.00
<u>Gates</u>					
327	Security fence single gate, size 1 000 mm wide x 1 800 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate and union padlock No 3122.	No	1	5,080.00	5,080.00
328	Security fence double gate, size 3 500 mm wide x 1 800 mm high, in equal leaves each leaf formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, with four 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single "kampeon" wires with crimped droppers to security posts as before described; including 500 mm diameter flat wrap razor barbed tape wire fixed as before described one leaf with 450 mm mild steel towerbolt welded to bottom corner with short length of mild steel pipe let into concrete paving as keep, with two 40 x 40 x 6 mm angle rounded flange plates welded to styles of pipe framing, each plate once holed for and including 50 mm; each leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate and union padlock No 3122.	No	1	18,400.00	18,400.00
<u>Sundries</u>					
329	Allow for all necessary clearing of fence line including grubbing up and removal of scrub bush and trees not exceeding 200mm girth	m	1	35.00	35.00
<u>ClearVu Fencing by Cochrane or equal Architect approved</u>					
<u>Cochrane ClearVu high density anti-climbing and anti-cut pressed galvanised razor mesh panel fencing with aperture size 76mm x 12mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to galvanised 85 - 45mm Taper locking post including Locking Recess Mechanism at 3,382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep with bitumen coated 400mm ClearVu underdig, all to Manufacturer's specification:</u>					
384	1 800mm high fencing	m	1	1,650.00	1,650.00
385	2 100mm high fencing	m	1	1,850.00	1,850.00
386	2 400mm high fencing	m	1	2,000.00	2,000.00
387	2 700mm high fencing	m	1	2,430.00	2,430.00
388	3 000mm high fencing	m	1	2,750.00	2,750.00
389	Pedestrian gate size 1 000 x 1 800mm	No	1	9,500.00	9,500.00
390	Pedestrian gate size 1 000 x 2 100mm	No	1	10,500.00	10,500.00
391	Pedestrian gate size 1 000 x 2 400mm	No	1	11,500.00	11,500.00
392	Pedestrian gate size 1 000 x 2 700mm	No	1	14,500.00	14,500.00
393	Pedestrian gate size 1 000 x 3 000mm	No	1	19,500.00	19,500.00
394	Pedestrian gate size 1 200 x 1 800mm	No	1	12,500.00	12,500.00
395	Pedestrian gate size 1 200 x 2 100mm	No	1	13,500.00	13,500.00
396	Pedestrian gate size 1 200 x 2 400mm	No	1	14,500.00	14,500.00
397	Pedestrian gate size 1 200 x 2 700mm	No	1	17,500.00	17,500.00
398	Pedestrian gate size 1 200 x 3 000mm	No	1	22,500.00	22,500.00
394	Pedestrian gate size 1 500 x 1 800mm	No	1	13,500.00	13,500.00
395	Pedestrian gate size 1 500 x 2 100mm	No	1	14,500.00	14,500.00
396	Pedestrian gate size 1 500 x 2 400mm	No	1	16,500.00	16,500.00

397	Pedestrian gate size 1 500 x 2 700mm	No	1	19,000.00	19,000.00
398	Pedestrian gate size 1 500 x 3 000mm	No	1	23,500.00	23,500.00
399	Vehicular gate size 4 000 x 1 800mm	No	1	26,000.00	26,000.00
400	Vehicular gate size 4 000 x 2 100mm	No	1	28,000.00	28,000.00
401	Vehicular gate size 4 000 x 2 400mm	No	1	30,000.00	30,000.00
402	Vehicular gate size 4 000 x 2 700mm	No	1	37,000.00	37,000.00
403	Vehicular gate size 4 000 x 3 000mm	No	1	42,000.00	42,000.00
404	Vehicular gate size 6 000 x 1 800mm	No	1	46,000.00	46,000.00
405	Vehicular gate size 6 000 x 2 100mm	No	1	52,000.00	52,000.00
406	Vehicular gate size 6 000 x 2 400mm	No	1	55,600.00	55,600.00
407	Vehicular gate size 6 000 x 2 700mm	No	1	60,600.00	60,600.00
408	Vehicular gate size 6 000 x 3 000mm	No	1	66,800.00	66,800.00
<u>Cochrane ClearVu standard density anti-climbing and anti-cut pressed galvanised razor mesh panel fencing with aperture size 76mm x 25mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to galvanised 85 - 45mm Taper locking post including Locking Recess Mechanism at 3,382mm centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep with bitumen coated 400mm ClearVu underdig, all to Manufacturer's specification:</u>					
409	1 800mm high fencing	m	1	1,325.00	1,325.00
410	2 100mm high fencing	m	1	1,480.00	1,480.00
411	2 400mm high fencing	m	1	1,625.00	1,625.00
412	2 700mm high fencing	m	1	1,825.00	1,825.00
413	3 000mm high fencing	m	1	2,258.00	2,258.00
414	Pedestrian gate size 1 000 x 1 800mm	No	1	9,600.00	9,600.00
415	Pedestrian gate size 1 000 x 2 100mm	No	1	10,500.00	10,500.00
416	Pedestrian gate size 1 000 x 2 400mm	No	1	11,500.00	11,500.00
417	Pedestrian gate size 1 000 x 2 700mm	No	1	13,500.00	13,500.00
418	Pedestrian gate size 1 000 x 3 000mm	No	1	14,000.00	14,000.00
419	Pedestrian gate size 1 200 x 1 800mm	No	1	12,500.00	12,500.00
420	Pedestrian gate size 1 200 x 2 100mm	No	1	13,500.00	13,500.00
421	Pedestrian gate size 1 200 x 2 400mm	No	1	14,500.00	14,500.00
422	Pedestrian gate size 1 200 x 2 700mm	No	1	15,500.00	15,500.00
423	Pedestrian gate size 1 200 x 3 000mm	No	1	16,500.00	16,500.00
419	Pedestrian gate size 1 500 x 1 800mm	No	1	13,500.00	13,500.00
420	Pedestrian gate size 1 500 x 2 100mm	No	1	14,500.00	14,500.00
421	Pedestrian gate size 1 500 x 2 400mm	No	1	15,500.00	15,500.00
422	Pedestrian gate size 1 500 x 2 700mm	No	1	16,500.00	16,500.00
423	Pedestrian gate size 1 500 x 3 000mm	No	1	17,500.00	17,500.00
424	Vehicular gate size 4 000 x 1 800mm	No	1	26,000.00	26,000.00
425	Vehicular gate size 4 000 x 2 100mm	No	1	28,000.00	28,000.00
426	Vehicular gate size 4 000 x 2 400mm	No	1	30,000.00	30,000.00
427	Vehicular gate size 4 000 x 2 700mm	No	1	35,000.00	35,000.00
428	Vehicular gate size 4 000 x 3 000mm	No	1	40,000.00	40,000.00
429	Vehicular gate size 6 000 x 1 800mm	No	1	35,000.00	35,000.00
430	Vehicular gate size 6 000 x 2 100mm	No	1	40,000.00	40,000.00
431	Vehicular gate size 6 000 x 2 400mm	No	1	45,000.00	45,000.00
432	Vehicular gate size 6 000 x 2 700mm	No	1	55,000.00	55,000.00

433	Vehicular gate size 6 000 x 3 000mm	No	1	60,000.00	60,000.00
	<u>Cochrane ClearVu Invisible wall formed of 3,297m wide galvanised panels with aperture size 76mm x 50mm, with 2 x 70° flanges along sides, with 2 x 30° flanges along top and toe (integrated rigid angle, anti-scale locking device), with flush panel post finish with no climbing aid and reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidity), affixed to galvanised 85 - 45mm Taper locking post over 48 line wires using 8 x Double boltcomb clamps and 8 x Single bolt comb clamps using 24 x Anti vandal bolts, and including Locking Recess Mechanism at 3,382m centres with sealed UV stabilized polymer caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep</u>				
434	1 800mm high fencing	m	1	1,100.00	1,100.00
435	2 100mm high fencing	m	1	1,400.00	1,400.00
436	2 400mm high fencing	m	1	1,500.00	1,500.00
437	2 700mm high fencing	m	1	1,930.00	1,930.00
438	3 000mm high fencing	m	1	2,150.00	2,150.00
439	Pedestrian gate size 1 000 x 1 800mm	No	1	10,500.00	10,500.00
440	Pedestrian gate size 1 000 x 2 100mm	No	1	11,500.00	11,500.00
441	Pedestrian gate size 1 000 x 2 400mm	No	1	12,500.00	12,500.00
442	Pedestrian gate size 1 000 x 2 700mm	No	1	15,500.00	15,500.00
443	Pedestrian gate size 1 000 x 3 000mm	No	1	20,500.00	20,500.00
444	Pedestrian gate size 1 200 x 1 800mm	No	1	13,500.00	13,500.00
445	Pedestrian gate size 1 200 x 2 100mm	No	1	14,500.00	14,500.00
446	Pedestrian gate size 1 200 x 2 400mm	No	1	15,500.00	15,500.00
447	Pedestrian gate size 1 200 x 2 700mm	No	1	18,500.00	18,500.00
448	Pedestrian gate size 1 200 x 3 000mm	No	1	23,500.00	23,500.00
444	Pedestrian gate size 1 500 x 1 800mm	No	1	14,500.00	14,500.00
445	Pedestrian gate size 1 500 x 2 100mm	No	1	15,500.00	15,500.00
446	Pedestrian gate size 1 500 x 2 400mm	No	1	16,500.00	16,500.00
447	Pedestrian gate size 1 500 x 2 700mm	No	1	19,500.00	19,500.00
448	Pedestrian gate size 1 500 x 3 000mm	No	1	24,500.00	24,500.00
449	Vehicular gate size 4 000 x 1 800mm	No	1	26,000.00	26,000.00
450	Vehicular gate size 4 000 x 2 100mm	No	1	27,000.00	27,000.00
451	Vehicular gate size 4 000 x 2 400mm	No	1	29,000.00	29,000.00
452	Vehicular gate size 4 000 x 2 700mm	No	1	36,500.00	36,500.00
453	Vehicular gate size 4 000 x 3 000mm	No	1	41,000.00	41,000.00
454	Vehicular gate size 6 000 x 1 800mm	No	1	46,500.00	46,500.00
455	Vehicular gate size 6 000 x 2 100mm	No	1	52,000.00	52,000.00
456	Vehicular gate size 6 000 x 2 400mm	No	1	55,600.00	55,600.00
457	Vehicular gate size 6 000 x 2 700mm	No	1	60,600.00	60,600.00
458	Vehicular gate size 6 000 x 3 000mm	No	1	66,800.00	66,800.00
	<u>Fence Toppings by Cochrane or equal Architect approved</u>				
509	100mm high toughened steel Shark Tooth spike shall be affixed to panel edge, internally at 150mm intervals using Anti-vandal bolts. Spike finish shall be Hot Dipped Galvanized	m	1	195.00	195.00
510	100mm high toughened steel Castle spike shall be affixed to panel edge, internally at 150mm intervals using Anti-vandal bolts. Spike finish shall be Hot Dipped Galvanized	m	1	290.00	290.00
511	100mm high toughened steel Spear spike shall be affixed to panel edge, internally at 150mm intervals using Anti-vandal bolts. Spike finish shall be Hot Dipped Galvanized	m	1	290.00	290.00
512	450mm Diameter Ripper Concertina shall be fixed to post as anti-scale topping	m	1	335.00	335.00
513	600mm Diameter Ripper Concertina shall be fixed to post as anti-scale topping	m	1	365.00	365.00
514	730mm Diameter Ripper Concertina shall be fixed to post as anti-scale topping.	m	1	385.00	385.00

515	980mm Diameter Ripper Concertina shall be fixed to post as anti-scale topping.	m	1	400.00	400.00
516	1250mm Diameter Ripper Concertina shall be fixed to post as anti-scale topping.	m	1	520.00	520.00
517	730mm Diameter Ripper Blade Smart Concertina Coil shall be fixed to post as anti-scale topping. NATO 5660-99-458-7414	m	1	285.00	285.00
518	200mm Diameter Ripper Spiral shall be fixed to post as anti-scale topping	m	1	155.00	155.00
519	300mm Diameter Ripper Spiral shall be fixed to post as anti-scale topping	m	1	245.00	245.00
520	450mm Diameter Ripper Spiral shall be fixed to post as anti-scale topping	m	1	280.00	280.00
521	600mm Diameter Ripper Spiral shall be fixed to post as anti-scale topping	m	1	265.00	265.00
522	600mm ClearVu mesh extension to be secured to the lower edge integrated angle	m	1	350.00	350.00
523	500mm Ripper Flatwrap to be secured to the lower edge integrated angle	m	1	350.00	350.00
524	700mm Ripper Flatwrap to be secured to the lower edge integrated angle	m	1	420.00	420.00
525	900mm Ripper Flatwrap to be secured to the lower edge integrated angle	m	1	505.00	505.00
526	200mm Concrete Sill to be secured to the lower edge integrated angle	m	1	350.00	350.00
<u>Concrete Palisade Fencing</u>					
<u>30 MPa Standard Duty Concrete Palisade fencing, each section, 2 000mm width, measured from post centre to next post centre. Each section is made up of two posts, the pales at 180mm centres and two cross beams or rails to which the pales are bolted. (Main post 40mm tapering to 130mm, depth 210mm), top and bottom rails (55mm thickness and 150mm width), pale Size 70mm x 100mm width. Carriage bolts (8mm galvanised hook bolts) are used to secure the nine pales to top and bottom rails. The bolts are counter sunk, thus allowing the holes to be grouted over to conceal the bolts from tampering. Each main post is planted in a foundation of 400 x 400 x 600 mm deep and consisting of a mixture of cement and crushed stone that should reach 15MPa strength at 28 days.</u>					
527	2 400mm high fencing	m	1	1,650.00	1,650.00
528	3 000mm high fencing	m	1	2,050.00	2,050.00
<u>30 MPa Heavy Duty Concrete Palisade fencing, each section, 2 000mm width, measured from post centre to next post centre. Each section is made up of two posts, the pales at 180mm centres and two cross beams or rails to which the pales are bolted. (Main post 80mm tapering to 140mm, depth 225mm), top and bottom rails (80mm thickness and 150mm width), pale Size 80 tapering to 100mm x 75mm width. Carriage bolts (8mm galvanised hook bolts) are used to secure the nine pales to top and bottom rails. The bolts are counter sunk, thus allowing the holes to be grouted over to conceal the bolts from tampering. Each main post is planted in a foundation of 400 x 400 x 600 mm deep and consisting of a mixture of cement and crushed stone that should reach 15MPa strength at 28 days.</u>					
529	2 400mm high fencing	m	1	1,650.00	1,650.00
530	3 000mm high fencing	m	1	2,050.00	2,050.00
<u>Sundries</u>					
531	Replace 30MPa Main posts Size 40mm tapering to 130mm, depth 210mm length 2 900mm	No	1	640.00	640.00
532	Replace 30MPa top / bottom rails Size 55mm thick x 150mm width, length 3 000mm	No	1	755.00	755.00
533	Replace 30MPa pales Size 70mm x 100mm depth, length 3 000mm	No	1	1,038.00	1,038.00
534	Replace 30MPa pales Size 70mm x 100mm depth, length 2 400mm	No	1	993.00	993.00
<u>Precast Walling</u>					
<u>2 Louver 30MPa Grey Concrete Precast Walling Size 305mm x 1440mm x 38mm Concrete. Poles: 3 x 4-6mm spring steel, 2 Louver Panels: 2 x 3.15mm spring spring steel. Foundation: 350mm x 350mm 15 Mpa concrete & poles are planted 550 to 600mm deep. All precast concrete panels are grouted top to bottom.</u>					
535	1 500mm high wall	m	1	1,083.00	1,083.00
536	1 800mm high wall	m	1	1,185.00	1,185.00
537	2 100mm high wall	m	1	1,230.00	1,230.00
538	2 400mm high wall	m	1	1,241.00	1,241.00
<u>Galvanised Steel Palisade Fencing</u>					
<u>Galvanized Steel palisade fence fitted between 100 x 55 IPE galvanized steel post 2850 long in panel with 17 no. 40 x 40 x 3mm angle iron rolled steel pales fixed to and including 2no. 50 x 50 x 5mm angle iron horizontal cross-bars at 1,65m centers and 450 x 450 x 900 deep mass concrete base</u>					
539	800mm high	m	1	950.00	950.00
540	1 200mm high	m	1	1,050.00	1,050.00
541	1 800mm high	m	1	1,350.00	1,350.00

542	2 400mm high	m	1	1,600.00	1,600.00
543	3 000mm high	m	1	1,850.00	1,850.00
	<u>Gate</u>				
	<u>Sliding driveway gate made of 100 x 50 x 3,0mm bottom rail, 75 x 50 x 3,0mm side, diagonal and top rail. - filled with 40 x 40 x 3mm galv. mild steel angle iron welded to mild steel surround sharpened to match palisade fence and spaced equally not exceeding 150mm Centre's. - 100 x 100 x 3,0mm end post in concrete base. (25mPa) - 75 x 50 x 2,5 end U-shaped portal guide post in concrete base - 2no. 100mm heavy duty GMS wheels with dust proof sealed roller bearings. - 50 x 50 x 5mm GMS angle track with 16mm solid round bar welded on top of angle iron, 30 x 75mm fish tails at 300 Centre's cast in concrete base (25mPa) - GMS guide with nylon guide wheels bolted to column - 200 x 100 x 75 closing channel welded to gate - 100 x 100 x 6 locking plates welded to gate and closing channel.</u>				
544	Size 4 000 x 800mm high	No	1	6,500.00	6,500.00
545	Size 4 000 x 1 200mm high	No	1	7,500.00	7,500.00
546	Size 4 000 x 1 800mm high	No	1	8,500.00	8,500.00
547	Size 4 000 x 2 400mm high	No	1	12,500.00	12,500.00
548	Size 4 000 x 3 000mm high	No	1	14,500.00	14,500.00
549	Size 6 000 x 800mm high	No	1	12,500.00	12,500.00
550	Size 6 000 x 1 200mm high	No	1	14,500.00	14,500.00
551	Size 6 000 x 1 800mm high	No	1	16,500.00	16,500.00
552	Size 6 000 x 2 400mm high	No	1	18,500.00	18,500.00
553	Size 6 000 x 3 000mm high	No	1	22,500.00	22,500.00
	<u>GALVANIZED STEEL FENCING</u>				
	<u>Supply and install 1,8m high hot dipped galvanized palisade fencing with top and horizontal supports, Posts are to be 75 x 75 x 3mm square tubing with top welded closed and 40 x 40 x 3mm rails, 25 x 25 x 3mm pales and pales are to be at 140mm c/c including 200 x 200 600mm deep holes cast in 25Mpa concrete posts, Spacing to be 3m per panel and welded to posts. All welded areas are to be galva sprayed. All work to be to the manufacture's specifications</u>				
554	1,8m high fencing	m	1	1,000.00	1,000.00
555	Ditto, but 2,1m high fencing	m	1	1,200.00	1,200.00
556	Ditto, but 2,4m high fencing	m	1	1,400.00	1,400.00
557	Ditto, but 3m high fencing	m	1	1,600.00	1,600.00
	<u>Excavations</u>				
558	Excavations in earth to form openings size 400 x 300 x 8m long for IPE Section	m3	1	230.00	230.00
559	Ditto, but 400 x 300 x 10m long for IPE Section	m3	1	250.00	250.00
560	Ditto, but 400 x 300 x 12m long for IPE Section	m3	1	270.00	270.00
561	Ditto, but 400 x 300 x 14m long for IPE Section	m3	1	300.00	300.00
562	Ditto, but 400 x 300 x 16m long for IPE Section	m3	1	350.00	350.00
	<u>Gate Track</u>				
563	Supply and install gate track comprising of 6,72kg/m IPE Section with 16mm round bar welded, welds to be continous on both sides of 16mm round bar and cast in 25MPa Concrete Base 300 x 300 x 1m	m	1	1,300.00	1,300.00
564	Ditto, but with 18mm round bar	m	1	1,600.00	1,600.00
565	Ditto, but with 20mm round bar	m	1	1,800.00	1,800.00
	<u>Gate Posts</u>				
566	Supply and install guide posts 75 x 75 x 3mm thick embeded in 25MPa concrete footing, size not less than 300 x 300 x 600mm deep	No	1	750.00	750.00
	<u>Pedestrian Gate</u>				
567	Supply and install 1,8 X 1m wide Pedestrian Gate comprising of 75 x 75 x 3mm framing amd 25 x 25 x 3mm pales @ 140mm c/c with all necessary fittings, locking mechanism with Abus Pad Lock and make good on completion	No	1	3,120.00	3,120.00
568	Ditto, but 1,8 x 1,5m wide	No	1	4,248.00	4,248.00
569	Supply and install 2,1 x 1m wide Pedestrian Gate comprising of 75 x 75 x 3mm framing amd 25 x 25 x 3mm pales @ 140mm c/c with all necessary fittings, locking mechanism with Abus Pad Lock and make good on completion	No	1	4,248.00	4,248.00

570	Ditto, but 2,1 x 1,5m wide	No	1	4,812.00	4,812.00
	<u>Vehicle Sliding Gate</u>				
571	Supply and install 1,8 x 4m wide Sliding Gate comprising of 75 x 75 x 3mm framing and 25 x 25 x 3mm pales @ 140mm c/c with 2 wheels and all necessary fittings, locking mechanism with Abus Pad Lock and make good on completion	No	1	10,652.00	10,652.00
572	Ditto, but 1,8 x 5m wide	No	1	12,344.00	12,344.00
573	Ditto, but 1,8 x 6m wide high	No	1	13,472.00	13,472.00
574	Ditto, but 1,8 x 7m wide	No	1	15,728.00	15,728.00
575	Ditto, but 1,8 x 8m wide	No	1	16,856.00	16,856.00
576	Supply and install 2,1 x 4m wide Sliding Gate comprising of 75 x 75 x 3mm framing and 25 x 25 x 3mm pales @ 140mm c/c with 2 wheels and all necessary fittings, locking mechanism with Abus Pad Lock and make good on completion	No	1	17,420.00	17,420.00
577	Ditto, but 2,1 x 5m wide	No	1	18,550.00	18,550.00
578	Ditto, but 2,1 x 6m wide	No	1	19,676.00	19,676.00
579	Ditto, but 2,1 x 7m wide	No	1	20,805.00	20,805.00
580	Ditto, but 2,1 x 8m wide	No	1	21,932.00	21,932.00
581	Supply and install 2,4 x 4m wide Sliding Gate comprising of 75 x 75 x 3mm framing and 25 x 25 x 3mm pales @ 140mm c/c with 2 wheels and all necessary fittings, locking mechanism with Abus Pad Lock and make good on completion	No	1	18,548.00	18,548.00
582	Ditto, but 2,4 x 5m wide	No	1	19,676.00	19,676.00
583	Ditto, but 2,4 x 6m wide	No	1	20,804.00	20,804.00
584	Ditto, but 2,4 x 7m wide	No	1	21,932.00	21,932.00
585	Ditto, but 2,4 x 8m wide	No	1	22,560.00	22,560.00
586	Supply and install 3 x 4m wide Sliding Gate comprising of 75 x 75 x 3mm framing and 25 x 25 x 3mm pales @ 140mm c/c with 2 wheels and all necessary fittings, locking mechanism with Abus Pad Lock and make good on completion	No	1	19,676.00	19,676.00
587	Ditto, but 3 x 5m wide	No	1	20,804.00	20,804.00
588	Ditto, but 3 x 6m wide	No	1	21,932.00	21,932.00
589	Ditto, but 3 x 7m wide	No	1	23,060.00	23,060.00
590	Ditto, but 3 x 8m wide	No	1	23,688.00	23,688.00
	<u>WORK TO EXISTING</u>				
591	Take down and remove existing diamond mesh or timber fence 1,8m high including all intermediate posts, gate etc and hack up / dig up and remove concrete bases	m	1	143.00	143.00
592	Ditto, but 2,1m high	m	1	199.00	199.00
593	Ditto, but 2,4m high	m	1	210.00	210.00
594	Ditto, but 3m high	m	1	255.00	255.00
595	Take down and remove existing precast concrete paneled fencing, posts and supply and fit new 1,8m high including all necessary fittings and labour	m	1	255.00	255.00
596	Ditto, but 2,1m high	m	1	312.00	312.00
597	Ditto, but 2,4m high	m	1	315.00	315.00
598	Ditto, but 3m high	m	1	368.00	368.00
599	Take down and remove existing concrete palisade fencing, posts and supply and fit new 1,8m high including all necessary fittings and labour	m	1	255.00	255.00
600	Ditto, but 2,1m high	m	1	312.00	312.00
601	Ditto, but 2,4m high	m	1	315.00	315.00
602	Ditto, but 3m high	m	1	368.00	368.00
603	Take down and remove damaged diamond mesh fencing 1,8m high including wire strand supports and replace with new galvanized diamond mesh fencing in lengths exceeding 5m in extent	m	1	395.00	395.00
604	Ditto, but in isolated patching	m	1	338.00	338.00
605	Take down and remove damaged diamond mesh fencing 2,1m high including wire strand supports and replace with new galvanized diamond mesh fencing in lengths exceeding 5m in extent	m	1	395.00	395.00

606	Ditto, but in isolated patching	m	1	338.00	338.00
607	Take down and remove damaged steel palisade fencing including all fittings	m	1	123.00	123.00
608	Take down and remove damaged clearvu fencing including all fittings	m	1	123.00	123.00
<u>ELECTRIC MOTOR</u>					
	Supply and install D3 Centurion with galvanized anti theft galvanised bracket	No	1	6,300.00	6,300.00
	Ditto, D5	No	1	9,025.00	9,025.00
<u>AWNINGS</u>					
<u>Windovert Awnings or equal similar Architect approved</u>					
609	Canopy awning comprising Algarve 8951 Dralon acrylic fibre on 15 micron natural anodised aluminium frame manually retractable aluminium frame, fixed to wall including pelmet size 1200mm wide x 1200mm extension, complete with brackets, braces, cleats, bolts, etc.	No	1	4,600.00	4,600.00
610	Drop-arm awning comprising Algarve 8952 Dralon acrylic fibre on 80mm diameter galvanized barrel tube frame manually operated with 90 degree drop-arm mechanism, fixed to walls size 2000mm wide x 1200mm drop, complete with brackets, braces, cleats, bolts, etc.	No	1	6,720.00	6,720.00
611	Retractable Fold-arm awning comprising Baden 6275 Dralon acrylic fibre on galvanised fluted steel roller tube frame manually operated with retractable folding arm mechanism, fixed to wall including pelmet size 2000mm wide x 2700mm extension, complete with brackets, braces, cleats, bolts, etc.	No	1	15,120.00	15,120.00
612	Gear control drop blind awning comprising Bonifacio 8943 Dralon acrylic fibre on 80mm diameter galvanized barrel tube frame manually operated with sliding mechanism, fixed to steel frame size 2000mm wide x 1200mm extension, complete with sliding track, brackets, braces, cleats, bolts, etc.	No	1	7,440.00	7,440.00
613	Cord control awning comprising Boston 8629 Dralon acrylic fibre on 50mm aluminium tube frame manually operated vertical sliding mechanism, fixed to walls and timber roof trusses size 2000mm wide x 1200mm high, complete with brackets, U-channels, braces, cleats, bolts, etc.	No	1	7,600.00	7,600.00
<u>Awning Warehouse Reboss Awnings or equal similar Architect approved</u>					
614	D Series awning, size 1000 x 1000mm projection with 3mm Aluminium coloured acrylic board cover and Black engineered PVC brackets, fixed to wall with expansion bolts, all in accordance with manufacturer's recommendations.	No	1	3,875.00	3,875.00
615	D Series awning, size 1200 x 1000mm projection with 3mm Aluminium coloured acrylic board cover and Bronze engineered PVC brackets, fixed to wall with expansion bolts, all in accordance with manufacturer's recommendations.	No	1	4,650.00	4,650.00
616	H Series awning, size 1000 x 700mm projection with 3mm Aluminium coloured acrylic board cover and Black engineered PVC brackets, fixed to wall with expansion bolts, all in accordance with manufacturer's recommendations.	No	1	2,715.00	2,715.00
617	K Series awning, size 1200 x 1200mm projection with 3mm Bronze Tinted Acrylic board cover and Bronze engineered PVC brackets, fixed to wall with expansion bolts, all in accordance with manufacturer's recommendations.	No	1	4,464.00	4,464.00
618	M Series awning, size 1500 x 1000mm projection with 3mm Aluminium coloured acrylic board cover and Black powdercoated aluminium brackets, fixed to wall with expansion bolts, all in accordance with manufacturer's recommendations.	No	1	5,813.00	5,813.00
<u>Awning Warehouse Awnings or equal similar Architect approved</u>					
619	Manually operated adjustable aluminium louvre awning, overall size 1500mm x 2500mmmm, comprising Aluminium louvres (colour to be selected) on frame with matching 3 tier fascia, fixed to support structure complete with brackets, braces, cleats, bolts, etc.	No	1	8,250.00	8,250.00
620	Aluminium awning for window/door, overall size 1200mm x 2500mm x 1000mmmm high, comprising Aluminium sheeting (colour to be selected), fixed to support structure complete with brackets, braces, cleats, bolts, etc.	No	1	8,400.00	8,400.00
621	Bow canvas awning, overall size 1200mm x 2000mm x 500mmmm high, comprising Canvas fabric (colour to be selected) stretched over fixed aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc.	No	1	6,720.00	6,720.00
622	Fixed awning, overall size 1200mm x 2500mmmm, comprising Polycarbonate sheeting (colour to be selected) on frame with matching 3 tier fascia, fixed to support structure complete with brackets, braces, cleats, bolts, etc.	No	1	8,400.00	8,400.00
623	Retractable Fold Arm manually operated canvas folding arm awning, overall size 1200mm x 2500mm x 450mmmm high, comprising Canvas fabric (colour to be selected) on aluminium frame with retractable folding arm mechanism, fixed to support structure complete with brackets, braces, cleats, bolts, etc.	No	1	8,400.00	8,400.00
624	Horizontal sun control louvre, comprising White Aluminium louvre panels, fixed to structural frame (elsewhere specified) including all necessary fixing accessories, etc.	m	1	6,100.00	6,100.00

625	Retractable Drop Arm awning, size 1400mm extension x 1200mm wide in Antracite fabric (Code: 8488) with Light Grey powder coated aluminium frame. Awning will be manually operated, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Drop Arm • Awning type : retractable • Fabric : Antracite (Code: 8488) • Frame : Light Grey powder coated aluminium.	No	1	4,200.00	4,200.00
626	Retractable Drop Arm awning, size 1400mm extension x 1200mm wide in Botella N fabric (Code: 2680) with Light Grey powder coated aluminium frame. Awning will be manually operated, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Drop Arm • Awning type : retractable • Fabric : Botella N (Code: 2680) • Frame : Light Grey powder coated aluminium.	No	1	4,200.00	4,200.00
627	Retractable Drop Screen awning, size 1200mm wide x 1500mm drop in Creta fabric (Code: 2580) with Light Grey powder coated aluminium frame. Awning will be manually operated, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Drop Screen • Awning type : retractable • Fabric : Creta (Code: 2580) • Frame : Light Grey powder coated aluminium.	No	1	4,500.00	4,500.00
628	Retractable Pergola awning, size 1200mm extension x 1200mm wide in Gris N fabric (Code: 2103) with Light Grey powder coated aluminium frame. Awning will be manually operated, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Pergola • Awning type : retractable • Fabric : Gris N (Code: 2103) • Frame : Light Grey powder coated aluminium.	No	1	3,600.00	3,600.00
629	Retractable Pram awning, size 1200 x 5100mm wide in Negro fabric (Code: 2170) with mill finish aluminium frame. Awning will be manually operated with rope and pulley system, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Pram • Awning type : retractable • Fabric : Negro (Code: 2170) • Frame : mill finish aluminium • Operation : manual operation.	No	1	15,300.00	15,300.00
630	Fixed Pram awning, size 1200 x 5100mm wide in Antracite fabric (Code: 8488) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Pram • Awning type : fixed • Fabric : Antracite (Code: 8488) • Frame : mill finish aluminium.	No	1	15,300.00	15,300.00
631	Fixed Bow awning, size 600mm extension x 4600mm wide x 1200mm high in Beige fabric (Code: 2038) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Bow • Awning type : fixed • Fabric : Beige (Code: 2038) • Frame : mill finish aluminium.	No	1	7,728.00	7,728.00
632	Fixed Bow awning, size 1200mm extension x 4600mm wide x 1200mm high in Gris N fabric (Code: 2103) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Bow • Awning type : fixed • Fabric : Gris N (Code: 2103) • Frame : mill finish aluminium.	No	1	13,200.00	13,200.00
633	Fixed Wedge awning, size 1200mm extension x 4600mm wide x 1200mm high in Texas fabric (Code: 2238) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Wedge • Awning type : fixed • Fabric : Texas (Code: 2238) • Frame : mill finish aluminium.	No	1	13,200.00	13,200.00
634	Fixed Dome awning, size 1652 x 3304mm wide in Texas fabric (Code: 2238) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Dome • Awning type : fixed • Fabric : Texas (Code: 2238) • Frame : mill finish aluminium.	No	1	13,645.00	13,645.00
635	Fixed Fixed Screen awning, size 900mm extension x 1200mm wide x 5300mm high in Colonia fabric (Code: 2964) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Fixed Screen • Awning type : fixed • Fabric : Colonia (Code: 2964) • Frame : mill finish aluminium.	No	1	3,024.00	3,024.00
636	Fixed Fixed Screen awning, size 1500mm extension x 1200mm wide x 5000mm high in Colonia fabric (Code: 2964) with mill finish aluminium frame, fixed to support structure complete with brackets, braces, cleats, bolts, etc. • Awning : Fixed Screen • Awning type : fixed • Fabric : Colonia (Code: 2964) • Frame : mill finish aluminium.	No	1	4,500.00	4,500.00
<u>Coolshade Door and Window Awnings or equal, similar Architect approved</u>					
637	Window and door pram awning comprising Sienna 6685 polyester reinforced fabric fixed to steel frame with brackets, braces, cleats, bolts, etc.	m	1	4,200.00	4,200.00
638	Window and door wedge awning comprising Windsor 6292 polyester reinforced fabric fixed to steel frame with brackets, braces, cleats, bolts, etc.	m	1	4,150.00	4,150.00
639	Window and door dome awning comprising Royal Blue 0017 polyester reinforced fabric fixed to steel frame with brackets, braces, cleats, bolts, etc.	m	1	4,800.00	4,800.00
<u>CARPORTS</u>					
<u>Coolshade Shadeports and Carports or equal, similar Architect approved</u>					
640	Four poster single gazebo with bottle green Allnet fabric. Size 3 000 x 5 500mm	No	1	12,100.00	12,100.00
641	Four poster double gazebo with rain forest Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	15,000.00	15,000.00
642	Four poster treble gazebo with rain forest Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	18,200.00	18,200.00
643	Four poster single ridge beam with rain forest Knittex all weather fabric. Size 3000 x 5500mm	No	1	15,100.00	15,100.00
644	Four poster double ridge beam with rain forest Knittex all weather fabric. Size 5000 x 5500mm	No	1	18,000.00	18,000.00
645	Four poster treble ridge beam with rain forest Knittex all weather fabric. Size 7500 x 5500mm	No	1	18,500.00	18,500.00
646	Four poster single pyramid with rain forest Knittex all weather fabric. Size 3 000 x 5 500mm	No	1	14,800.00	14,800.00
647	Four poster double pyramid with rain forest Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	15,000.00	15,000.00
648	Four poster treble pyramid with rain forest Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	18,000.00	18,000.00
649	Four poster single tunnel with rain forest Knittex all weather fabric Size 3 000 x 5 500mm	No	1	15,200.00	15,200.00

650	Full cantilever single gazebo with rain forest Knittex all weather fabric. Size 3 000 x 5 500mm	No	1	15,800.00	15,800.00
651	Full cantilever double gazebo with rain forest Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	18,900.00	18,900.00
652	Full cantilever treble gazebo with rain forest Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	18,500.00	18,500.00
653	Full cantilever single ridge beam with turquoise Knittex all weather fabric. Size 3 000 x 5 500mm	No	1	15,800.00	15,800.00
654	Full cantilever double ridge beam with turquoise Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	16,400.00	16,400.00
655	Full cantilever treble ridge beam with turquoise Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	18,600.00	18,600.00
656	Full cantilever single pyramid with turquoise Knittex all weather fabric. Size 3 000 x 5 500mm	No	1	14,800.00	14,800.00
657	Full cantilever double pyramid with turquoise Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	17,650.00	17,650.00
658	Full cantilever triple pyramid with turquoise Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	19,100.00	19,100.00
659	Full cantilever single tunnel with turquoise Knittex all weather fabric. Size 3 000 x 5 500mm	No	1	15,050.00	15,050.00
660	Full cantilever double tunnel with turquoise Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	18,200.00	18,200.00
661	Full cantilever treble tunnel with turquoise Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	19,400.00	19,400.00
662	Four poster single gazebo with bottle green Allnet fabric. Size 3 000 x 5 500mm	No	1	12,100.00	12,100.00
663	Four poster double gazebo with rain forest Knittex all weather fabric. Size 5 000 x 5 500mm	No	1	15,000.00	15,000.00
664	Four poster treble gazebo with rain forest Knittex all weather fabric. Size 7 500 x 5 500mm	No	1	18,200.00	18,200.00
665	Four poster single ridge beam with rain forest Knittex all weather fabric. Size 3000 x 5500mm	No	1	15,100.00	15,100.00
666	Four poster double ridge beam with rain forest Knittex all weather fabric. Size 5000 x 5500mm	No	1	18,000.00	18,000.00
667	Four poster treble ridge beam with rain forest Knittex all weather fabric. Size 7500 x 5500mm	No	1	18,500.00	18,500.00
668	Four poster single carport with IBR sheeting incl. all necessary members & fittings. Size 3 000 x 5 500mm	No	1	15,600.00	15,600.00
669	Four poster single carport with IBR sheeting including all necessary members & fittings. Size 5000 x 5 500mm	No	1	18,500.00	18,500.00
670	Four poster single carport with IBR sheeting incl. all necessary members & fittings. Size 7500 x 5 500mm	No	1	22,500.00	22,500.00
671	Full cantilever single carport with IBR sheeting incl. all necessary members & fittings . Size 3 000 x 5 500mm	No	1	20,800.00	20,800.00
672	Full cantilever double carport with IBR sheeting incl. all necessary members & fittings . Size 5 000 x 5 500mm	No	1	22,800.00	22,800.00
673	Full cantilever treble carport with IBR sheeting incl. all necessary members & fittings . Size 7 500 x 5 500mm	No	1	25,800.00	25,800.00
	<u>Sport Equipment,etc</u>				
674	Supply and install tennis court nets as per SABS approved	m	1	485.00	485.00
675	Supply and install volleyball nets as per SABS approved	m	1	350.00	350.00
676	Supply & install galvanised Football goal posts approved by South African Football Association	No	1	10,155.00	10,155.00
678	Supply & install galvanised Netball goal posts approved by South African Netball Association	No	1	1,355.00	1,355.00
679	Supply & install galvanised Tennis posts approved by South African Tennis Association	No	1	905.00	905.00
680	Supply & install galvanised Volleyball posts approved by South African Tennis Association	No	1	1,355.00	1,355.00
	<u>Insulated pre-owned steel container</u>				
681	6m x 2,4m Insulated container	No	1	30,000.00	30,000.00
682	12m x 2,4m Insulated container	No	1	55,000.00	55,000.00
683	Container to be prepared, wire-brushed treated for rust, apply one undercoat and two finishing coats of enamel paint	m2	1	75.00	75.00
684	Apply poly rubber sealant on roof to prevent leaks	m2	1	330.00	330.00
685	Supply and install 40mm thick polystyrene insulation with Chromadek cladding on steel container internally including all fittings	m2	1	400.00	400.00
686	Supply & install 70mm thick partition wall with Chromadek cladding on both sides internally including all fittings	m2	1	600.00	600.00
687	Supply and install steel window size: 533mm X 359mm high with steel burglar guards (code: NG1)	No	1	1,320.00	1,320.00
88	Supply and install external steel door with frame size: 790mm X 1980mm high	No	1	3,500.00	3,500.00
689	Supply and install internal semi-hollow core door with aluminium frame size: 790mm X 1980mm high	No	1	2,350.00	2,350.00
	<u>Ablution Layout: Adults</u>				
690	Supply & install fibreglass WC including all fittings	No	1	3,100.00	3,100.00

691	Supply & install fibreglass wash hand basin including all fittings	No	1	2,900.00	2,900.00
692	Supply & install fibreglass urinal including all fittings	No	1	3,800.00	3,800.00
693	Supply & install shower cubicles including all fittings	No	1	5,100.00	5,100.00
	<u>Ablution Layout: Kiddies</u>				
694	Supply & install ceramic WC including all fittings	No	1	4,000.00	4,000.00
695	Ditto, fibreglass WC	No	1	3,750.00	3,750.00
696	Supply & install ceramic wash hand basin including all fittings	No	1	2,500.00	2,500.00
697	Ditto, fibreglass wash hand basin	No	1	2,100.00	2,100.00
698	Supply & install ceramic urinal including all fittings	No	1	3,500.00	3,500.00
699	Ditto, fibreglass urinal	No	1	2,800.00	2,800.00
700	Supply & install 5m postform counter top (600mm wide) per running metre with chrome plated tube legs	No	1	7,500.00	7,500.00
	<u>Turnstile</u>				
701	Supply & Install fully galvanized Titan 3 Single Turnstile with opening width of 1.43m x 2.25m high with headroom of 1.986m	No	1	15,500.00	15,500.00
	Carried to Final Summary				R 4,349,590.00
Bill No.	<u>SECTION SUMMARY-NEW WORKS</u>				
1	Demolitions	Page			31,918.00
2	Alterations	Page			135,375.90
3	Earthworks (Provisional)	Page			45,660.40
4	Concrete, Formwork and Reinforcement	Page	116		1,392,824.00
5	Precast Concrete	Page	128		70,929.00
6	Masonry	Page	169		339,062.30
7	Waterproofing	Page	181		21,222.00
8	Roof Coverings Etc.	Page	192		23,165.00
9	Carpentry and Joinery	Page	260		5,940,562.00
10	Ceilings, Partitions and Access Flooring	Page	284		62,960.00
11	Floor Coverings, Wall Linings, Etc.	Page	299		34,749.00
12	Ironmongery	Page	329		339,565.06
13	Structural Steelwork	Page	337		2,105,332.50
14	Metalwork	Page	376		2,131,252.50
15	Plastering	Page	386		6,158.00
16	Tiling	Page	415		154,330.00
17	Plumbing and Drainage (Provisional)	Page	478		1,861,231.23
18	Glazing	Page	482		25,102.00
19	Paintwork	Page	490		4,100.00
20	Paperhanging	Page	494		4,834.00
21	External Works	Page	562		4,349,590.00
	SUB-TOTAL: NEW WORKS				19,079,922.89
	<u>FINAL SUMMARY</u>				
1	NON-ITEMISED / SPECIFIED / EMERGENCY WORK (Section 1)	Page	4		345.00
2	NEW WORKS (Section 2 & 3)	Page	564		19,079,922.89
	Sub - Total:				19,080,267.89
	Add Value Added Tax at the rate of 15%	TAX	15		2,862,040.18
	CARRIED TO FORM OF OFFER AND ACCEPTANCE				21,942,308.07