

52	Floor unit FU bedroom cupboard size 1900 x 550 x 2400mm high with Four doors (See cupboard detail under Drawings 695-03-D400)	No	2	
53	Floor unit FU bedroom cupboard size 2200 x 550 x 2400mm high with Four doors (See cupboard detail under Drawings 695-03-C400)	No	1	
54	Wall cupboard WU 300mm wide x 300mm and 720mm high, with one cupboard (See cupboard detail under Drawings 695-03-443)	No	1	
55	Wall cupboard WU 400mm wide x 300mm and 720mm high, with one cupboard (See cupboard detail under Drawings 695-03-444)	No	1	
56	Wall cupboard WU 600mm wide x 300mm and 720mm high, with one cupboard (See cupboard detail under Drawings 695-03-443)	No	4	
57	Wall cupboard WU 600mm wide x 500mm and 1080mm high, with two flap unit cupboards and a microwave unit (See cupboard detail under Drawings 695-03-443)	No	4	
58	Wall cupboard W 400 one door 400 unit (See cupboard detail under Drawings 695-03-C400)	No	1	
59	Wall cupboard W 500 two door 500 unit (See cupboard detail under Drawings 695-03-C400)	No	1	
60	Wall cupboard W 600 two door 600 unit (See cupboard detail under Drawings 695-03-C400)	No	1	
61	Wall cupboard W 700 two door 700 unit (See cupboard detail under Drawings 695-03-D400)	No	2	
62	Wall cupboard W 800 two door 800 unit (See cupboard detail under Drawings 695-03-D400)	No	2	
63	Wall cupboard WS 250 Open shelf 250 unit (See cupboard detail under Drawings 695-03-C400)	No	1	
Carried to Collection				R

Section No. 2
Bill No. 6
Carpentry and Joinery

THE FOLLOWING IN STORAGE SHELVES

Supawood

64	22 x 400 mm Wide Supawood shelves with 16 x 16 mm hardwood edging fixed to mild steel frame as per architect specifications complete	m	363	
65	22 x 450 mm Wide Supawood shelves with 16 x 16 mm hardwood edging fixed to mild steel frame as per architect specifications complete	m	8	
66	20 x 400 mm Wide laminated SA pine shelves with 16 x 16 mm hardwood edging fixed to mild steel frame as per architect specifications complete to holding cells	m	4	
67	16mm MDF Supawood timber trays fixed to mild steel frame as per architect specifications complete in docket room	m	54	

Hardwood rifle & Pistol support shelving

68	Provide the PC amount of Fifty Thousand Rand (R50'000.00) for supply and installation of Rifle and Pistol support shelves complete	Item		50 000.00
69	Allow for profit and attendance	Item		

Mobile storage units

70	Light Grey epoxy coated mobile shelving 1827mm wide x 380mm deep x 2645mm high shelving units consisting of 900mm modules with three steel tracks at 900mm centres as per approval of Architect (Layout at back of Bill of Quantities)	No	10	
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Bill No. 6
Carpentry and Joinery

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JOINERY FITTINGS

71	50x400mm diameter hardwood seat with top edges radius 15mm, screwed to base with 6x40mm long wood screws, All hardwood to be prepared and varnished with two coats polyurethane varnish, seat fixed to and including seat base of 100x3mm round mild steel pipe with 300mm diameter 6mm thick top flange and 300x300x6mm bottom flange, bolted to floor with M12 expansion bolts complete as per Architect Specification at cell visitors area	No	4
72	Sand down and repair existing Witness box and prepare and seal as per Architect Specification	No	1
73	Sand down and repair existing Accused box and prepare and seal as per Architect Specification	No	1
74	Sand down and repair existing Accoustic Panel, size 1500 x 1 500mm high, and prepare and seal as per Architect Specification	No	8
75	Sand down and repair existing Public Bench and prepare and seal as per Architect Specification	m	28
76	Sand down and repair existing Public barrier and prepare and seal as per Architect Specification	m	8

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Carpentry and Joinery

Section No. 2

Bill No. 6

Carpentry and Joinery

COLLECTION

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Section No. 2

Bill No. 6

Carpentry and Joinery

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NUMBER 2</u>				
	<u>BILL NUMBER 7</u>				
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>				
	JBCC Work Group No. 128				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	For Preambles see "PW371 - Specification of Materials and Methods to be used"				

	SABISA (Ceilings) – Subcontractor must be Sabisa registered for drywalling and ceilings				
	<u>NAILED UP CEILINGS</u>				
	<u>9mm Pressed fibre cement boards screwed at maximum 300mm c/c to SAP battens. Joints to receive plaster tape. "Rhino Tape" or similar approved, to be applied over joints. Skim with 3-6mm Rhinolite skim plaster, applied as per manufacturer's specification and prepare to be painted. Colour and finish to Architect's approval.</u>				
1	Ceilings including 50 x 50mm sawn softwood brandering at 450mm centres "LI"	m2	228		
2	Extra over ceiling for forming trap door size 600 x 600 mm (Provisional)	No	4		
	<u>9mm Thick "Rhino" gypsum plasterboard ceilings with Rhino Tape cover strips over joints and including 3-6mm Rhinolite skimmed plaster applied to manufacturers specifications:</u>				
3	Ceilings including 38 x 50mm sawn softwood brandering at 450mm centres "LI"	m2	198		
4	Extra over ceiling for forming trap door size 600 x 600 mm (Provisional)	No	5		
5	20x15mm plaster trim profile, powder coated white, cornice	m	1 004		
	Carried to Collection				
	Section No. 2				
	Bill No. 7				
	Ceilings, Partitions & Access Flooring				

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Section No. 2
Bill No. 7
Ceilings, Partitions & Access Flooring

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SUSPENDED CEILINGS

600 mm Wide x 600 mm long x 15 mm thick 'OWAcoustic Finetta Premium' suspended ceiling panels (or other approved) biologically absorbable mineral wood ceiling tiles. With square edge pattern, laid on fire rated OWAcconstruct S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm complete, installed strictly to manufacturer's specifications. Colour and finish to Architect's approval

- 6 To ceilings suspended exceeding 0,5m and not exceeding 2m below timber purlins, Suspended ceiling exceeding 3m above ground and not exceeding 9m above ground "LI"

m2 50

- 7 "OWAcconstruct" or other approved Shadowline W-trim cornice with colour and finish to Architect's approval

m 95

600 mm Wide x 1200 mm long x 12.5 mm thick Vinyl faced gypsum board suspended ceiling panels, or similar approved laid on fire rated OWAcconstruct S3 exposed demountable T24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm complete, installed strictly to manufacturer's specifications. Colour and finish to Architect's approval

- 8 To ceilings suspended exceeding 0,5m and not exceeding 2m below timber purlins, Suspended ceiling exceeding 3m above ground and not exceeding 9m above ground "LI"

m2 485

- 9 "OWAcconstruct" or other approved Shadowline W-trim cornice with colour and finish to Architect's approval

m 736

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Ceilings, Partitions & Access Flooring

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12.5mm GYPTONE QUATTRO 41, flush plastered ceilings, with solid panels fixed to suspended metal framing. Gyproc GK system or similar approved. Perimeter edge profile GK-C with maximum screw distance of 400mm. All joints to be taped and skimmed and screw heads to be skimmed and sanded level, all in accordance to manufacturer's specifications. Colour and finish to Architect's approval

10 To ceilings suspended exceeding 0,5m and not exceeding 2m below timber purlins, Suspended ceiling exceeding 3m above ground ant not exceeding 9m above ground "LI"

m2 105

11 Perimeter edge profile GK-C cornice complete fixed to architects specification

m 74

CEILING INSULATION

Resin bonded glass fibre insulation in blanket form

12 135mm Insulation laid over brandering "LI"

m2 1 066

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Ceilings, Partitions & Access Flooring

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Ceilings, Partitions & Access Flooring

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Section No. 2

Bill No. 7

Ceilings, Partitions & Access Flooring

	Unit	Quantity	Rate	Amount
<u>SECTION NUMBER 2</u>				
<u>BILL NUMBER 8</u>				
<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>				
JBCC Work Group No. 130				
<u>SUPPLEMENTARY PREAMBLES</u>				
For Preambles see "PW371 - Specification of Materials and Methods to be used"				

<u>FLOOR COVERINGS</u>				
<u>1219.2 x 228 x 2.5mm "Echwood Classic Pistachio Pine" from "WANABIWOOD" or Similar Approved, glued down wood look Vinyl. Vinyl surface to be level with tiled surface in adjoining areas and surface preparation, adhesive and installation strictly in accordance to the Manufacturer's specifications</u>				
1	On floors	m2	71	
2	120mm stained meranti Skirtings	m	60	
<u>30mm Artificial Grass "Belgotex Leisure" or other approved, installed as per Manufacturer's specifications</u>				
3	On Floors	m2	52	
<u>POLISH, SEALERS, ETC</u>				
4	Prepare, strip with an approved vinyl wax stripper, and apply 3 coats heavy duty commercial vinyl floor sealant and mechanically buff up to high gloss finish	m2	71	
Carried to Collection				R
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Bill No. 8				
Floor Coverings				

Section No. 2
Bill No. 8
Floor Coverings

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EDGES, ETC.

Aluminium dividing strips

- 5 12mm High M-Trim mill finish dividing strip in concrete
thresh hold (Code: AFTIR120) or other approved

m

113

ENTRANCE MAT

"COBA AFRICA" or other approved

- 6 1200 x 3000mm Entrance matt as "Scraper Entrance
mat) or similar approved, with Aluminium edging, all in
accordance with the manufacturer's recommendations
or other approved

No

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Floor Coverings

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Bill No. 8

Floor Coverings

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Section No. 2
Bill No. 8
Floor Coverings

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12	IW8002 Ironware IW P/BOLT 2PT <1000MM<2500MM RED/BLK	No	1		
13	IW8003 Ironware IW DVL Door P/Bolt 3PT Red/Blk	No	7		
14	IW8005 Ironware Outside Access device W/O Cylinder Black	No	8		
15	IW9072 EN2-4 Regular Arm R&P Door Closer SIL complete	No	9		
16	IW9110 EN3 S/CHAN Cam Action Door Closer SIL complete	No	3		
17	IW9162 EN2-4 DA S/Channel R&P Door Closer SIL	No	2		
CELL LOCKS					
18	Provide a budgetary allowance of Thirty Two Thousand Rand (R32'000.00) (This sum will be deducted from the contract) for Cell Locks provided to the Contractor (taking delivery and fixing elsewhere)			Item	32 000.00
19	Allow for profit			Item	
20	Allow for taking delivery, storing on site and fixing in position only	No	21		
Carried to Collection					
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SECURITY

Tactical distributors SA or other approved

21	BPT Bullet trap	No	1
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HINGES, BOLTS, ETC.

22	Butt Hinge EN1935:2002 Class 13. 102 x 76mm Ball Bearing Hinge to EN1935:2002.	No	276
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23	IW4123SS Ironware 150mm Flush Lever Bolt with and including IW4060SS Ironware Dust Excluding Socket	No	2
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24	IW4006 IW Barrel Bolt 150x 32mm SS304	No	4
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HANDLES

25	IW1485SS Ironware 63x44mm Flush Ring Pull Handle	No	8
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26	IW1045 Calini Lever Handle On Rose SS Pair	No	81
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27	IW1321 Calini Round Pull Handle: Length = 625mm & 325mm Ctc = 600mm & 300mm Post = 25mm SS	No	2
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28	IW1320/325 Calini Round Pull Handle: Length = 325mm Ctc = 300mm Post = 25mm SS with IWFSBT19 Calini 19mm Pull Handle Bolt Thru Fixing Set With Rosette For: Iw1306 Iw1318 - 22mm Dia & 25mm Dia Iw1320 - 19mm Dia SS and including backplate PP1.2*40*15BLANK 1.2 S.S. PLATE 400 * 150 BLANK	No	4
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29	IW1320/170 Calini Round Pull Handle: Length = 170mm Ctc = 150mm Post = 19mm SS with IWFSBTB19 Calini 19mm Pull Handle Back to Back Fixing Set With Rosette For: Iw1306 Iw1318 - 22mm Dia & 25mm Dia Iw1320 - 19mm Dia SS	No	6
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DOOR STOPS

"IRONMONGERY WAREHOUSE" or other approved

30	IW5002SC Floor door stop	No	102
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31	IW5034 Hat & Coat hook with buffer	No	12
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DOOR PROTECTION PLATES & LOUVRES

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LETTERS, NAMEPLATES, ETC.

"Union Dove" 152 x 178 x 2mm Thick brass sign plate

37	IW6007SS Ironware 150*150mm Outline Engraved SS Tea Cup	No	3
38	IW6000SS, Ironware 150*150mm Outline Engraved SS Female	No	3
39	IW6001SS, Ironware 150*150mm Outline Engraved SS Male	No	3
40	IW6008SS, Ironware 150*150mm Outline Engraved SS Electrical	No	4
41	IW6005SS, Ironware 150*150mm Outline Engraved SS Disabled	No	2
42	IW6002SS, Ironware 150*150mm Outline Engraved SS Male and Female	No	2
43	IW6009SS, Ironware 150*150mm Outline Engraved SS Data	No	2

Signage

44	Provide the PC amount of Two Hundred Thousand Rand (R200'000.00) for supply and installation of signage complete	Item	200 000.00
45	Allow for profit and attendance	Item	

EMBLEM

South African Police Service Emblem

46	Cast iron Internal Coat of Arms SAPS Emblem as per architects specifications and drawing	No	1
47	Cast iron External Coat of Arms SAPS Emblem as per architects specifications and drawing	No	2

Aluminium plates

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WFB

50 x 50 Aluminium Engraved door number plate

48 Sign with one letter or numeral

No 94

49 Ditto, but with two letter or numeral

No 25

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BLINDS & CURTAIN TRACKS

90mm Vertical blinds, similar or equal to Aluvert system with "ultra glide". Anodised aluminium rail to be installed in soffit of window reveal, and blinds to be made to size. Manufacture and installation by specialist. Colour and fabric samples to be presented to architects' approval. Note: blinds installed in front of French doors to be bi-parting, installed strictly to manufacturers specifications.

50	Window 1800 x 1200mm high (W01)	No	7
51	Window 600 x 600mm high (W02)	No	2
52	Window 900 x 600mm high (W03)	No	3
53	Window 900 x 1200mm high (W04)	No	36
54	Window 1200 x 600mm high (W05)	No	1
55	Window 2700 x 1200mm high (W06)	No	3
56	Window 600 x 1200mm high (W07)	No	1
57	Window 1800 x 1800mm high (W08)	No	8
58	Window 1800 x 900mm high (W14)	No	4
59	Window 1800 x 1500mm high (W16)	No	4
60	Window 900 x 900mm high (W17)	No	2
61	Window 900 x 1500mm high (W18)	No	6
62	Window 600 x 600mm high (W19)	No	17
63	Window 2100 x 600mm high (W22)	No	1

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64	Window 600 x 600mm high (W23)	No	1	
65	Shopfront 5900 x 2550mm high (SF2)	No	1	
66	Shopfront 1235 x 2550mm high (SF3)	No	1	
	<u>Two track curtain rail, with mild steel tracks and brackets, installed strictly to manufacturers specifications.</u>			
67	Curtain rail as per architect specification	m	36	
	<u>GRAB RAILS</u>			
	<u>"Stainless Steel Design"</u>			
68	STANDARD 300 x 300 x 300 x 80mm projecting dog leg side rail (KB26) as by Stainless Steel Design. Installed strictly to manufacturers specifications.	No	3	
69	STANDARD 800 long X 150 mm projecting straight disabled rail (KB18) as by Stainless Steel Design. Installed strictly to manufacturers specifications.	No	3	
	<u>CORNER PROTECTORS</u>			
70	1200 mm High x 5mm thick stainless steel corner protector fix with approved epoxy	No	80	
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BATHROOM FITTINGS

"Franke" or other approved

71	Standard stainless steel wall mounted lockable toilet roll holder as by FRANKE Washroom Accessories - Model - STRX 672 - 2120044, or similar approved, Installed strictly to manufacturers specifications	No	14
72	"Bathroom Butler 4601" Stainless Steel Paper holder, or similar approved (Code: 10-BB-4601P)	No	5
73	"Bathroom Butler 4682", or similar approved, 675mm long stainless steel double towel rail (Code: BUT-BAAC4682POLS)	No	7
74	"Bathroom Butler 8240", or similar approved, stainless steel towel ring (Code: 10-BB-8240P)	No	7
75	"Bobrick 818615 Contura Series", or similar approved, Heavy-duty satin finish Stainless Steel surface-mounted soap dispenser for all-purpose hand soaps	No	11
76	190x180x90mm Tile-in Ceramic soap holder	No	8
77	"Franke Rodan RODX" 600 0.8mm thick Grade 304 18/10 satin stainless steel paper towel dispenser (Code: 2120099), size 275 x 112 x 355mm deep with capacity of 500-800 towels, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.	No	11
78	"Franke Rodan" 0.8mm thick Grade 304 18/10 stainless steel waste disposal bins (Product Code: 2120097), size 355 x 168 x 460mm deep with waste bin capacity of 23 litres, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.	No	8
79	Franke Stratos STRX611 Sanitary towel disposal bin, 205 x 134 x 305mm, 1.2/1.5mm thick Grade 304 18/10 stainless steel, satin finished with surface treatment - InoxPlus. The disposal bin incorporates a plastic container with a 3.8 litre capacity, including a SS continuous piano hinge and mounting kit. Installed strictly to manufacturers specifications. (Code: 2120050)	No	9

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10 SS 174 WTB

- 80 Rubbermaid or similar approved, 900 x 560 x 120mm fold-down baby changing station to Architects approval (Code: FG781988LPLAT)
- 81 "Franke CNTX400A" 484 x 526mm Fold down shower seat manufactured from grade 304 Stainless steel. White battens made from polythylene with round corners (Code: 2120104)
- 82 INGE metal craft Standard vandal resistant Stainless steel wall recessed Toilet Roll holder Code - RTRH 0114. Core drill and epoxy grout Unit on to plastered brick wall with an approved grout. Ensure unit to have a flush fit all-round. Pre-approve sample installation.
- 83 600 x 1100 x 6mm laminated or tempered glass mirror with concealed fixings with mirror adhesive and 4x silver dome mirror screws in pre-drilled holes Installed strictly to manufacturers specifications.
- 84 550x610x160mm double door mirror cabinet, such as "Denver White Athena Haley" (code: DF2-811-12110) or other approved

No

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No

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No

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No

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No

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**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

"Parrot" white board magnetic concealed mounting,
slide-in aluminium pentray, size 450 x 35mm, and an
aluminium frame with a 10mm wide H-bar divider, to
be supplied with all necessary fixing components or
other approved

85 Wall mounted notice board size 1 500 x 1 200mm high

No 5

Vitrex System 2000 or similar approved vitreous
enamelled pinning boards and fixing to
manufacturers' instructions or other approved

86 Pinning board size 1 200 x 900mm high and fixing to
walls

No 13

Projector screen, brackets etc.

87 Electric drop down projector screen size 2860x1790mm
high in ceiling with and including aluminium case, wall
mounted remote control etc. see specifications at the
back of these bill of quantities

No 1

88 Ceiling mounted secure box for projector, to architects
colour and approval

No 1

BENCHES

"Greenfield manufacturing" benches (or other
approved)

89 305mm wide floor standing single-sided bench
approximately 600mm long FSS002-2 heavy duty
square tubing frame powder coated grey. (seat code:
WS002)

No 2

KITCHEN EQUIPMENT AND FITTINGS

90 600mm Electric Slimline Oven, 600mm 4-Solid Plate
stainless steel Hob, and 600mm stainless steel
extraction hood. All to be from reputable manufacturer's,
SABS approved, and carry a minimum 5-year guarantee

No 4

91 900mm diameter boiling pan as per architect
specification

No 1

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92	1000x890x910mm Three-phase industrial type stove, with solid plates without oven, type Vulcan R-E3-T without oven (Product Code: 3005820) OR similar and approved product. Top plate controlled by heavy duty three position switches.	No	1		
93	Approx. 2.5x1m Grade 304 Stainless Steel Extraction Hood over Stove and Boiling plan, as per Mechanical Engineer's detail and specification.	No	1		
94	Franke S1P1, or similar approved, Left Hand DBL Bowl Preparation/Pot combination Sink 650x1850mm, grade 304 stainless steel 1,2mm thick with a 150mm high integral splash back to the back and 50x10mm turndown with a beaded edge on remaining sides. Sink with a pressed catering bowl 500x500x230mm deep and a pressed pot sink bowl 600x500x300mm deep, both with 40mm waste outlets. Underside sprayed with vermin proof bitumastic sound deadening and supported with a 30x30x3mm framework and GMS backing sheet.	No	1		
95	650x1500mm Franke model W Wall Bench, or similar approved. Grade 304 stainless steel 1,2mm thick with a 150mm integral splash back at the back and 50x10mm turndown on the remaining sides. Underside sprayed with vermin proof bitumastic sound deadening and supported with a 30x30x3mm framework and galvanised mild steel backing sheet. Unit fixed 900mm high from the top of the front apron to FFL.	No	2		
96	Four (4) 900x400mm Franke Model Z-Series Adjustable Shelves manufactured from grade 18/10 stainless steel 1,2mm thick. One piece shelf and integrated bracket with a 25mm apron to front and sides with 30mm turn up at back and safety edge on corners. Mounted on three 1m long steel wall bands.	No	1		
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Ironmongery

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Ironmongery

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Bill No. 9

Ironmongery

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Item
No

Unit Quantity Rate Amount

SECTION NUMBER 2

BILL NUMBER 10

METALWORK

JBCC Group No. 136

SUPPLEMENTARY PREAMBLES

For Preambles see "PW371 - Specification of Materials and Methods to be used"

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 bolt unless otherwise described.

Metalwork described as "screwed" shall be deemed to include holes and screws.

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Section No. 2
Bill No. 10
Metalwork



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M#

STAINLESS STEEL BALUSTRADES

Welded balustrades to stairs, passages, etc.

- 1 50 mm x 3 mm Thick Circular hollow section handrail with and including supports spaced at 1100mm c/c fitted with 3x epoxy anchors on each support as per architect specification

m 20

PRESSED STEEL DOOR FRAMES

1.6mm Double rebated frames suitable for half brick walls

- 2 Frame for door 622 x 2032mm high
3 Frame for door 762 x 2032mm high
4 Frame for door 813 x 2 032mm high
5 Frame for door 813 x 2032mm high with and including fanlight size 305mmx813mm
6 Frame for door 900 x 2032mm high
7 Frame for door overall size 1511 x 2032mm high

No 2
No 12
No 26
No 21
No 1
No 2

1.6mm Double rebated frames suitable for one brick walls

- 8 Frame for door 650 x 1000mm high
9 Frame for door 813 x 2 032mm high
10 Frame for door 1100 x 2032mm high
11 Frame for door 900 x 2032mm high

No 1
No 17
No 1
No 1

1.6mm Double rebated frames suitable for 345mm brick walls

- 12 Frame for door 813 x 2032mm high with and including fanlight size 305mmx813mm

No 2

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Section No. 2
Bill No. 10
Metalwork



MB

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STEEL STRONGROOM DOORS, VENTILATORS, ETC

"Mutual Safes" Strongroom doors etc suitable for 230mm walls fixed to brickwork or concrete or other approved

- 13 1524x2134mm Type M.V steel double-transformer door and 1.6mm frame, for 230mm brick wall, with vent, supplied with red oxide factory primer, 3 pairs hinges and vents, as per architect specification

No

3

- 14 Category 2 strongroom door and frame with a mass of 300 kg, constructed of 12mm steel plate finished with Grey zinc chromate rust resistant primer. One way moving boltwork with 3 x 250mm round bolts

No

2

- 15 Double ended strongroom ventilator

No

2

GARAGE DOOR

Note: Tenderers are referred to architect's drawing attached to these bills of quantities for tender purposes

- 16 Garage door size 2500 x 2125mm high as specified by architect

No

2

Coroma Corosteel steel sectional manually operated garage door with 32mm diameter punched infill options with surface to receive powder coating (colour to be selected):

ACCESS CONTROL TURNSTILE

Electronically Controlled Turnstiles

- 17 Single, bi-directional, full-height, 4-arm turnstile with guide. Stainless steel finish suitable for external use. and connected to 220V AC single phase power supply, or other approved see detail designs at the back of the bill of quantities

No

1

STEEL SAFES AND LOCKERS

Galvanized steel pistol safe with power coated epoxy finish

- 18 Pistol safe size 330 x 305 x 300mm high (mass 16kg) including seven lever security un-pickable lock, fixing to wall with four 10mm diameter expansion bolts, etc.

No

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Galvanized steel lockers with power coated epoxy finish

- 19 Locker size 300 x 450 x 1800mm high consisting of 0,6mm thick bottom, sides, back, shelf, top and door, including shelf, hanging rail, two vent openings to door, fixing to wall with four 10mm diameter expansion bolts

No 22

SECURITY GATES & SCREENS

Security gates

- 20 Single gate 850 mm x 2 140 mm high of 50 mm x 50 mm x 2.5 mm hollow section mitred , frames and welded frame filled in with 16 mm solid rods bars vertical at 100 mm centres maximum and 2 x 32 mm x 10 mm flat section cross braces drilled to receive square bars and fitted with one and a half pair of 100 mm x 125 mm steel projection hinges, as per architect specification at the back of these bill of quantities (type: G02).

No 10

- 21 Single gate 900 mm x 2 000 mm high "Trellidoor" or other approved mild steel retractable security gate, as per architect specification at the back of these bill of quantities (type: G09).

No 4

- 22 Double gate size 4 250 wide x 3 000 high, Gate complete with Ironmongery and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc. as specified by Architect See drawings at the back of the bill of quantities(Door G04)

No 1

Holding cell Security screens

- 23 Security screen size 4 731 wide x 3 205 high, High security made up of 16mm diameter bright mild steel rods, 100x100x6mm sub frame, screen complete with Ironmongery, and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc. as specified by Architect See drawings at the back of the bill of quantities(695-03-433)

No 1

- 24 Security screen size 4 640 wide x 2 238 high, High security made up of 16mm diameter bright mild steel rods, 100x100x6mm sub frame, screen complete with Ironmongery, and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc. as specified by Architect See drawings at the back of the bill of quantities(695-03-434)

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CELL DOORS

25 Standard solid steel cell door, grill gate and frame combination size 1 018 mm wide x 2020 mm high complete with and including locks, handles, hinges, etc. as per attached drawings POL2012/D1 - POL2012/D5.

No

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26 Standard solid steel cell door, grill gate and frame combination size 1 204 mm wide x 2020 mm high complete with and including locks, handles, hinges, etc. as per attached drawings POL2012/D1 - POL2012/D5.

No

4

CELL GATES

27 Standard grille Cell gate 1018 x 2 020mm high formed of 50 x 50 x 4mm hollow section frame, mitred at corners filled in with four 50 x 50 x 4mm horizontal middle rails and 16mm diameter vertical rods at 88mm centres, lock box insert formed of two 40 x 10mm flat section bars 236mm long welded to two 240 x 230 x 5mm lock box plates for lock (elsewhere), gate hinged to steel door frame with two (Type A - Top & Bottom Hinge) and one (Type B - Middle Hinge) 40mm diameter hinges each 120mm formed of hinge pin 90mm (Type A), 100mm (Type B) long with 19,5mm diameter spindle 30mm (Type A), 40mm (Type B) long hollowed for 16mm carbon chromium steel roller ball (Type A) and spindle 60mm long with 20mm diameter hole 45mm long to house spindle (Type A & B) and roller ball and threaded for 12mm diameter x 30mm grade 8.8 bolt with locknut (Type A) and drilled for and including grease nipple (Type A & B) (POL2012/D1 to D5)

No

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28 Standard grille Cell gate 1 208 x 2 020mm high formed of 50 x 50 x 4mm hollow section frame, mitred at corners filled in with four 50 x 50 x 4mm horizontal middle rails and 16mm diameter vertical rods at 88mm centres, lock box insert formed of two 40 x 10mm flat section bars 236mm long welded to two 240 x 230 x 5mm lock box plates for lock (elsewhere), gate hinged to steel door frame with two (Type A - Top & Bottom Hinge) and one (Type B - Middle Hinge) 40mm diameter hinges each 120mm formed of hinge pin 90mm (Type A), 100mm (Type B) long with 19,5mm diameter spindle 30mm (Type A), 40mm (Type B) long hollowed for 16mm carbon chromium steel roller ball (Type A) and spindle 60mm long with 20mm diameter hole 45mm long to house spindle (Type A & B) and roller ball and threaded for 12mm diameter x 30mm grade 8.8 bolt with locknut (Type A) and drilled for and including grease nipple (Type A & B) (POL2012/D1 to D5)

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CELL WINDOWS

29	Standard cell window size 850 mm wide x 950 mm high complete with window, 7.52 mm laminated glass glazing, internal- and external fixed screens complete, web width 10mm and openings of 10mm x 40mm, as per architect specification (W001)	No	12
30	Standard cell window size 850 mm wide x 950 mm high complete with window, 7.52 mm laminated glass glazing, internal- and external fixed screens complete, web width 10mm and openings of 10mm x 40mm, as per architect specification (W002)	No	15
31	Visitors Window manufactured from 100x50x2.5mm open channel mild steel frame, profiled 2mm sheet, 16mm bars and 6.4mm Laminated safety glass in neoprene gasket, as per architect specification	No	2

STEEL ADJUSTABLE SHELVING

32	1.6mm Thick double slot wall band 2100mm long plugged and screwed to wall	No	1
33	1.6mm Thick shelf support brackets 400mm wide	No	7

ALUMINIUM WINDOWS, DOORS, ETC

Note: Tenderers are referred to architect's drawing attached to these bills of quantities for tender purposes

Windows and doors

Doors and windows to be of the types described, and manufactured by and in accordance with the standard specification of "Aluminium City", or other approved hereinafter referred to as the Manufacturer.

After manufacture, the Manufacturer shall be responsible for the delivery to site, unloading, placing in temporary storage, setting up and fixing in position, the supply of glass and glazing complete, sealant pointing, application and removal of protection tape and cleaning and servicing on completion of all aluminium doors and windows. Cleaning of glass before handing over shall be the responsibility of the Contractor as all glass is to be glazed clean by the manufacturer.

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Glazing

Doors and windows are to be glazed with glass as described. Glazing may be either factory or site glazed and shall be executed by the Manufacturer who must ensure that glass is clean and free from any defects on completion of glazing

Fixing

All doors and windows are to be fixed in position by the Manufacturer. All must be perfectly plumb and shall be strutted and braced as necessary to prevent distortion

Pointing etc.

All doors and windows shall be waterproofed with "Sondor" or other approved wax impregnated sealing strip between the aluminium frame and the structure, and in addition shall be pointed all round on the external face with "Expandite Thioflex 600" or other approved two part polysulphide liquid polymer sealing compound, applied at the junction of the frame with the structure. Pointing, etc. of doors and windows shall be executed by the manufacturer, or his approved specialist waterproofing sub-contractor

Protection

The protection of aluminium doors and windows during and after fixing shall be the responsibility of the Contractor, they must be kept free from mortar droppings, etc. any units damaged are to be replaced. Aluminium doors and windows shall be protected with suitable adhesive protection tape applied to all exposed surfaces by the Manufacturer at the factory prior to delivery to site. Protection tape is to be of a different colour from the anodising

Servicing etc.

When necessary, all protection tape shall be removed by the Manufacturer, who shall then clean the doors and windows, but excluding the glass, which will have been glazed clean, test and service them, make all necessary adjustments and/or repairs and leave them in perfect order. Protection of the doors and windows after servicing by the Manufacturer and cleaning of glass after glazing shall be the responsibility of the Contractor

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Prices

Prices for aluminium shall include the manufacture, delivery to site, unloading, setting up and fixing in position, supply of glass and glazing complete, "Sondor" sealing strips, wrought softwood infill linings to all hollow section aluminium frames according to details and sealant pointing, fixing lugs, brackets, screws, beads, timber grounds, cleaning and servicing of windows, all by the Manufacturer

References

The type numbers used in the following descriptions are those referred to the relevant type numbers on the drawings issued for tender and construction purposes. The sizes given in the following descriptions are nominal and prices are to take cognisance thereof

Ironmongery

Prices for windows, doors and frames should allow for all the ironmongery specified on the drawings referred to

Purpose made Bronze powder coated aluminium windows and shopfronts, complete with and including ironmongery, burglar bars and 6.4mm laminated safety glazing as per the specifications and window schedules at the back of the bill of quantities. All as per SABS regulations and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc. (see attached drawings)

34	Window 1800 x 1200mm high (W01)	No	7
35	Window 600 x 600mm high (W02)	No	2
36	Window 900 x 600mm high (W03)	No	3
37	Window 900 x 1200mm high (W04)	No	36
38	Window 1200 x 600mm high (W05)	No	1

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39	Window 2700 x 1200mm high (W06)	No	3
40	Window 600 x 1200mm high (W07)	No	1
41	Window 1800 x 1800mm high (W08)	No	8
42	Window 1500 x 600mm high (W11)	No	1
43	Window 600 x 1200mm high (W12)	No	1
44	Window 1500 x 2125mm high (W13)	No	1
45	Window 1800 x 900mm high (W14)	No	4
46	Window 600 x 600mm high (W15)	No	1
47	Window 1800 x 1500mm high (W16)	No	4
48	Window 900 x 900mm high (W17)	No	2
49	Window 900 x 1500mm high (W18)	No	6
50	Window 600 x 600mm high (W19)	No	17
51	Window 900 x 600mm high (W20)	No	1
52	Window 900 x 600mm high (W21)	No	1
53	Window 2100 x 600mm high (W22)	No	1
54	Window 600 x 600mm high (W23)	No	1
55	Shopfront 3900 x 2550mm high (SF1)	No	1
56	Shopfront 5900 x 2550mm high (SF2)	No	1
57	Shopfront 1235 x 2550mm high (SF3)	No	1

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Purpose made Bronze powder coated aluminium doors, complete with and including ironmongery and glazed as per the specifications and door schedules at the back of the bill of quantities. All as per SABS regulations and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc.(see attached drawings)

58	Door size 1500 x 2100mm high (GD01)	No	11
59	Door size 900 x 2100mm high (GD02)	No	8
60	Door size 700 x 2100mm high (GD04)	No	3
61	Door size 1500 x 2100mm high (GD05)	No	2
62	Door size 1500 x 2550mm high (GD06)	No	1

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SECTION NUMBER 2

BILL NUMBER 11

STRUCTURAL STEELWORK (PROVISIONAL)

SUPPLEMENTARY PREAMBLES

Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or other approved may be used with prior approval from the architect.

Where there is a reference to SABS code, it means the new SANS code definition.

NOTES

1. All steel must be grade 300 W to SABS 1431.
Commercial
Grade cold rolled sections to have a minimum yield stress of 225 MPa (Contractor to get confirmation from supplier in this regard).
2. All bolts and nuts to be grade 8.8 unless otherwise specified.
Bolts shall be hot dip galvanised to BS763 and it must be possible to screw mate parts together by hand.
3. All fasteners must be supplied by the Contractor.
4. All welds shall be full penetration 6mm welds to SABS 044 and SABS 455, all round where possible, unless otherwise stated.
5. All construction and workshop details must be approved by the Engineer before fabrication is started.
6. Structural steelwork must be carried out according to SABS 1200H.

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7. All bolts and nuts must have washers.
8. The contractor must ensure adequate structural stability of the structure for the full duration of erection. The contractor shall supply all temporary bracing and fixing mechanisms to achieve the above.
9. No holes to be formed or widened with the use of a cutting torch. The contractor must confirm all dimensions on site. Discrepancies to be reported to the engineer.
10. Prices for all structural steelwork are to include for the following:
 - (a) preparation and submission of two complete sets of shop drawings to the Structural Engineers for approval,
 - (b) fabrication,
 - (c) cleaning down and sandblasting to SA 2,5 (SIS 05 5900 - 1967) with profile of between 40 and 70 micron,
 - (d) prime (within 3 hours of sandblasting) with "Plascon zinc phosphate primer (UC. 170) to dry film thickness of between 50 and 100 micron,
 - (e) delivery to site,
 - (f) storage, if necessary,
 - (g) hoisting and erection complete, including all holing, galvanised mild steel bolts, washers, packing pieces, bolting, welding, etc
11. Painting of structural steelwork after erection is elsewhere measured

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SUNDRY GALVANISED STEELWORK

Galvanised steel posts as per Engineer's specification

1	150 x 50 x 20 x 2mm Thick cold-formed lipped channel	kg	877
2	250 x 150 x 8mm Thick cold-formed rectangular hollow section	kg	2 276
3	50 x 50 x 4mm Thick Angle	kg	324
4	60 x 60 x 4mm Thick Angle	kg	437
5	80 x 80 x 3mm Thick cold-formed Square hollow section	kg	606
6	150 x 150 x 4mm Thick cold-formed Square hollow section	kg	156
7	200 x 75mm cold-formed Parallel flange Channels	kg	3 072
8	32mm cold-formed steel rods	kg	463
9	5mm Mild steel connection plate at roof truss welded	No	77
10	8mm Mild steel connection plate	No	11
11	16mm Mild steel connection plate at base plate welded	No	11
12	M12 Bolt and nut	No	308
13	M20 Holding down bolt and nut, 350mm long	No	66

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HIGH SECURITY MESH SCREEN CEILINGS

Security mesh ceiling to be manufactured according recommended specifications. All steelwork to be hot dipped galvanised. Verify dimensions of areas mesh panel sizes before manufacturing as per Five star specifications 2012 POL2012/G1

14	Screenex or Beahaert Bastion Hi Security 358 Singleskin Galfan Class A coated (SANS Spec. 10244-2:2003) or other approved, mesh panels fitted into framework with secure fixing	m2	89
15	IPE 203 x 133 x 30mm I-section beams	kg	2 721
16	Extra over IPE 203 I-section beam for T-intersection	No	44
17	60 x 60 x 5mm Angle section framing to wall of welded to I-beam (bolts elsewhere)	kg	270
18	90 x 90 x 6mm Angle section framing bolted to wall of welded to I-beam (bolts elsewhere)	kg	266
19	100 x 75 x 6mm Angle section bracket bolted to wall	kg	270
20	150 x 90 x 10mm Angle section support bolted to wall (bolts measured elsewhere)	kg	200
21	1250mm x 1020mm x 3mm steel plate welded onto mesh above cell entrance and yard door as indicated with 20mm Ø weep hole in centre	No	6
22	1250mm x 670mm x 3mm steel plate welded onto mesh above cell entrance and yard door as indicated with 20mm Ø weep hole in centre	No	4
23	1250mm x 350mm x 3mm steel plate welded onto mesh above cell entrance and yard door as indicated with 20mm Ø weep hole in centre	No	2
24	250 x 50 x 10mm Lugs built into brickwork	No	13
25	Extra over 90 x 90 x 6mm angle section framing for mitred corner intersection	No	4
26	Hole through 5mm steel for bolt	No	160
27	Hole through 6mm steel for bolt	No	112

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28	Hole through 30mm steel for bolt	No	80
29	16mm Diameter chemical anchor bolt	No	272
30	20mm Diameter chemical anchor bolt	No	80

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BILL NUMBER 12

PLASTERING

JBCC Work Group No. 142

SUPPLEMENTARY PREAMBLES

For Preambles see "PW371 - Specification of Materials and Methods to be used"

SCREEDS

Sponge finished wood floated on concrete

- | | |
|---|---|
| 1 | 50mm Thick on floors and landings |
| 2 | 50mm thick on roofs to falls and currents |

Self levelling screed

- 3 Self levelling screed 4-8mm thick on floors

POLYURETANE

Polyurethane area cement Self levelling floor covering

- 4 Stonecor Africa or other approved Self levelling Polyuretane screed 4-8mm thick on floors

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GRANOLITHIC AND EPOXY

Granolithic floor covering

5	25mm thick untinted granolithic finished cement on floors	m2	551
6	250mm High Coved Skirting	m	522

Epoxy floor and wall covering

7	"Flowcrete" or other approved epoxy coating to architect specification and colour	m2	522
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INTERNAL PLASTER

5:1 ratio 2-coat Cement plaster on brickwork with and including skimmed second coat to architect specifications

8	On walls "LI"	m2	5 600
9	On narrow widths "LI"	m2	235

Cement plaster on concrete finished with a steel trowel

10	On ceilings "LI"	m2	764
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EXTERNAL PLASTER

Cement plaster on brickwork

11 On walls "LI"

m2

125

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TILING

JBCC Work Group No. 144

SUPPLEMENTARY PREAMBLES

For Preambles see "PW371 - Specification of Materials and Methods to be used"

WALL TILING

300 x 600 x 10mm Thick Glossy white ceramic wall tiles (Code GWW4-1) fixed with approved adhesive to plaster (plaster elsewhere measured) and flush pointed with waterproof jointing compound and tinted grout to architect specification or other approved.

1 On walls "L"

m2	674
----	-----

2 On narrow widths "LI"

m2	12
----	----

100 x 600 x 10mm Thick white gloss ceramic wall tiles (Code JSAT1) fixed with approved adhesive to plaster (plaster elsewhere measured) and flush pointed with waterproof jointing compound and tinted grout to architect specification or other approved

3 On walls in splash backs "LI"

m2 47

"Tle Africa" 600 x 600 x 10mm Thick Mosaic Black Diamond Fullbody Porcelain wall tiles fixed with approved adhesive to plaster (plaster elsewhere measured) and flush pointed with waterproof jointing compound and tinted grout to architect specification or other approved

4 On walls "LI"

m2 179

5 On narrow widths "LI"

m2	8
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FLOOR TILING

600 x 600 x 10mm Full Body Porcelain tiles "MOSAIC GREY" Matt from Tile Africa or similar approved on and including 10mm bedding laid in patterns on screed (screed elsewhere measured) and flush pointed with tinted waterproof jointing compound with maximum 3mm joints

6 On floors "LI"

m2 635

7 Skirting 150mm high "LI" with and including 8-9mm compressible (poly sulphide) joints concealed under tile skirting

m 1 160

600 x 600 x 10mm Full Body Porcelain tiles "MOSAIC BLACK DIAMOND" Matt from Tile Africa or similar approved on and including 10mm bedding laid in patterns on screed (screed elsewhere measured) and flush pointed with tinted waterproof jointing compound with maximum 3mm joints

8 On floors "LI"

m2 135

9 Skirting 150mm high "LI" with and including 8-9mm compressible (poly sulphide) joints concealed under tile skirting

m 34

600 x 600 x 10mm Non-slip Fully Body Porcelain tiles "MOSAIC GREY" from Tile Africa or similar approved, laid with 3mm joints and Dove Grey grout on and including 10mm bedding laid in patterns on screed (screed elsewhere measured) and flush pointed with tinted waterproof jointing compound with maximum 3mm joints

10 On floors "LI"

m2 133

11 Skirting 150mm high "LI" with and including 8-9mm compressible (poly sulphide) joints concealed under tile skirting

m 33

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	<u>40 x 40 x 4mm Porcelain Non-slip Mosaic Porcelain tiles "STERLING DARK GREY" supplied in 300 x 300mm sheets from Tile Africa or similar approved, to be installed with SABS approved waterproof adhesive and grouting as per tile Manufacturers recommendation. To be laid on screed to falls to shower outlet</u>		
12	On shower floors, walls and thresholds to falls	m2	7
	<u>500 x 500 x 10mm Glazed Ceramic Floor tiles "DISTRICT 9" from Tile Africa, or similar approved, laid with 5mm joints and dove grey grout on and including 10mm bedding laid in patterns on screed (screed elsewhere measured) and flush pointed with tinted waterproof jointing compound with maximum 3mm joints</u>		
13	On floors "LI"	m2	249
14	Skirting 150mm high "LI" with and including 8-9mm compressible (poly sulphide) joints concealed under tile skirting	m	42
	<u>SUNDRIES</u>		
	<u>Strips between tiles and on tile edges</u>		
15	12mm Aluminium Straight Edge Trim (ASE100 or ASE120)	m	1 269
16	20x10mm Aluminium Listello (ALI200)	m	278
17	Movement joint Trim, tile movement joint to correspond to that of the surface bed, to architect specifications (AMJ100 or AMJ120)	m	317
	<u>Internal or external corner strips</u>		
18	12mm Aluminium Straight Edge Trim (ASE120)	m	215

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