



13 MAY 2025

NOTICE TO TENDERERS NO. 2

Final Tender Document

Tender Number: 243Q/2024/25
Description: TERM TENDER FOR THE SUPPLY, INSTALLATION, REPAIRS AND MAINTENANCE OF WATERPROOFING AND ROOF COVERINGS FOR MUNICIPAL FACILITIES WITHIN THE CITY OF CAPE TOWN
Box Number: 207
Closing date: 30 May 2025 @ 10h00

Tenders should take note of the following:

This "Notice to Tenderers" forms an integral part of the Contract and is to be bound into the Tender Document and returned with the tender submitted.

2. AMENDMENTS:

2.1. Tender Data – Clause C.2.1.4.3 (Page 12)

Original Wording:

"Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format or within 5 working days written request thereof to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information IN THIS TENDER SUBMISSION could result in the tenderer not being able to achieve the specified minimum scoring."

Amended Wording:

"Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format. Failure to provide all information IN THIS TENDER SUBMISSION could result in the tenderer not being able to achieve the specified minimum scoring."

2.2 Schedule 19: Functionality Criteria (Page 369):

Original Wording:

"The Tenderer must list Comparable Projects where the Tenderer was appointed and completed the project as prime contractor or joint venture member."

Amended Wording:

"The Tenderer must list comparable projects where they were appointed and successfully completed the works as a prime contractor, joint venture member, or sub-contractor. Where projects were undertaken in a sub-contracting capacity, the reference provided must be that of the prime contractor or the client."

2.3. Functionality Criterion 1: Demonstrated Experience (Pages 13, 16, 19, 22, 25)

Original Wording:

"Comparable Project:

- New Roof Covering installations
- Roof Covering replacements
- Roof Covering Repairs and Maintenance

Or a combination of the above"

Amended Wording:

"Comparable Project:

- New Roof Covering installations
- Roof Covering replacements
- Roof Covering Repairs and Maintenance

Or a combination of the above

If the project submitted forms part of a larger scope that includes work from other trades, but incorporates one or more of the above roofing-related works, the Tenderer must submit the Bill of Quantities (BoQ) for the project. The relevant roofing-related line items must be clearly highlighted by the Tenderer. Only the combined value of these highlighted line items will be considered when determining whether the project meets the minimum value requirement for this criterion."

2.4. Functionality Criterion 2: Demonstrated Experience (Pages 14, 17, 20, 23, 26)

Original Wording:

"Comparable Project:

- New Waterproofing installations
- Waterproofing replacements
- Waterproofing Repairs and Maintenance

Or a combination of the above"

Amended Wording:

"Comparable Project:

- New Waterproofing installations
- Waterproofing replacements
- Waterproofing Repairs and Maintenance

Or a combination of the above

If the project submitted forms part of a larger scope that includes work from other trades, but incorporates one or more of the above waterproofing-related works, the Tenderer must submit the Bill of Quantities (BoQ) for the project. The relevant roofing-related line items must be clearly highlighted by the Tenderer. Only the combined value of these highlighted line items will be considered when determining whether the project meets the minimum value requirement for this criterion."

2.5. C2.2, Schedule of Rates (Page 113 - 114):

Original Description:

1.13.1	For works exceeding 2.5m and not exceeding 5m high	Day
1.13.2	For works exceeding 5m and not exceeding 10m high	Day
1.13.3	For works exceeding 10m and not exceeding 15m high	Day
1.13.4	For works exceeding 15m and not exceeding 20m high	Day
1.13.5	For works exceeding 20m and not exceeding 25m high	Day
1.13.6	For works exceeding 25m and not exceeding 30m high	Day
1.13.7	For works exceeding 30m and not exceeding 35m high	Day
1.13.8	For works exceeding 35m and not exceeding 40m high	Day
1.13.9	For works exceeding 40m and not exceeding 45m high	Day
1.13.10	For works exceeding 45m and not exceeding 50m high	Day
1.13.11	For works exceeding 50m and not exceeding 55m high	Day
1.13.12	For works exceeding 55m and not exceeding 60m high	Day
1.13.13	For works exceeding 60m and not exceeding 65m high	Day
1.13.14	For works exceeding 65m and not exceeding 70m high	Day
1.13.15	For works exceeding 70m and not exceeding 75m high	Day
1.13.16	For works exceeding 75m and not exceeding 80m high	Day
1.13.17	For works exceeding 80m and not exceeding 85m high	Day
1.13.18	For works exceeding 85m and not exceeding 90m high	Day
1.13.19	For works exceeding 90m and not exceeding 95m high	Day
1.13.20	For works exceeding 95m and not exceeding 100m high	Day

Amended wording:

The following is added to the description of line items 1.13.1 – 1.13.20:

“(Meter of rope required per works project to be multiplied by No. of days)”

1.13.1	For works exceeding 2.5m and not exceeding 5m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.2	For works exceeding 5m and not exceeding 10m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.3	For works exceeding 10m and not exceeding 15m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.4	For works exceeding 15m and not exceeding 20m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.5	For works exceeding 20m and not exceeding 25m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.6	For works exceeding 25m and not exceeding 30m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.7	For works exceeding 30m and not exceeding 35m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.8	For works exceeding 35m and not exceeding 40m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.9	For works exceeding 40m and not exceeding 45m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.10	For works exceeding 45m and not exceeding 50m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.11	For works exceeding 50m and not exceeding 55m high (Meter of rope required per works project to be multiplied by No. of days)	Day

1.13.12	For works exceeding 55m and not exceeding 60m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.13	For works exceeding 60m and not exceeding 65m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.14	For works exceeding 65m and not exceeding 70m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.15	For works exceeding 70m and not exceeding 75m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.16	For works exceeding 75m and not exceeding 80m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.17	For works exceeding 80m and not exceeding 85m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.18	For works exceeding 85m and not exceeding 90m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.19	For works exceeding 90m and not exceeding 95m high (Meter of rope required per works project to be multiplied by No. of days)	Day
1.13.20	For works exceeding 95m and not exceeding 100m high (Meter of rope required per works project to be multiplied by No. of days)	Day

2.6. C2.2, Schedule of Rates (Pages 110 - 188):

The row heights and margins of the Schedule of Rates have been adjusted for formatting and clarity purposes. Other than the amendment described in amendment 2.5 in this notice, the content of the Schedule of Rates remains unchanged.

Tenderers are to ensure that they use the latest version of the Schedule of Rates. Tenderers **must** email Alan van Heerden to request a copy of the latest electronic (excel) version of the amended Schedule of Rates titled 243Q/2024/25 Schedule of Rates v2.

The PDF 243Q/2024/25 Schedule of Rates v2 is included below

Alan.VanHeerden@capetown.gov.za

Tenderers are referred to Schedule 26. Tenderers are required to submit (1) electronic copy (on a USB Flash drive), and one (1) hardcopy (printed) of the Schedule of Rates, and that both copies submitted are to be in the same format as those issued by the Employer.

Tenderers are to return a signed copy of this notice/addendum/attachment, with the submission of their Tender.

Yours Faithfully,

pp.SCM Tenders & Contracts *nsmad*

On behalf of Director: Supply Chain Management

WRITTEN ACKNOWLEDGEMENT OF RECEIPT FOR 243Q/2024/25

At on this Day of 2025.

Signature:

Name of Signatory:
(in ink and capitals)

TENDERER:
(Legal Name of tendering entity in ink and capitals)

Item	Description	Unit	Area 1 Rate (Excl. VAT)	Area 2 Rate (Excl. VAT)	Area 3 Rate (Excl. VAT)	Area 4 Rate (Excl. VAT)	Citywide Rate (Excl. VAT)
1	BILL NO. 1						
	PRELIMINARIES						
	(CPAP WORK GROUP 190 UNLESS OTHERWISE STATED) PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	THE TENDERER SHALL NOTE THE FOLLOWING AND IT WILL BE DEEMED TO BE UNDERSTOOD AND AGREED UPON WHEN SUBMITTING THIS TENDER DOCUMENT: Items captured under "Preliminaries", will only be applicable in exceptional circumstances if and when required, in whole or in part or deducted in its entirety by the client or the project manager. Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include the supply and installation of each item, unless otherwise stated. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						
1.1	SAFETY ON SITE						
	Provide health and safety compliance with the health and safety specification refer to C3.5 Management, Occupational Health and Safety Act No. 85 of 1993 and Construction Regulations, 2014.						
1.1.1	Work project value above R0 up to R500 000	Sum					
1.1.2	Work project value above R500 001 up to R1 000 000	Sum					
1.1.3	Work project value above R1 000 001 up to R3 000 000	Sum					
1.1.4	Work project value above R3 000 001 up to R6 000 000	Sum					
1.1.5	Work project value above R6 000 001 up to R10 000 000	Sum					
1.1.6	Provisional Sum to ensure compliance with regulations relating to a pandemic/state of disaster/state of emergency as may be issued from Government. This item shall be utilised to ensure compliance with relevant H&S regulations/policies issued in this regard. A quotation and proof of actual cost incurred shall be provided by the contractor.	Prov sum					
			R20 000.00	R20 000.00	R20 000.00	R20 000.00	R20 000.00
1.2	ENVIRONMENTAL MANAGEMENT PLAN COMPLIANCE Provide compliance with the environmental management plan refer to C3.5 Management for works projects.						
1.2.1	Work project value above R0 up to R500 000	Sum					
1.2.2	Work project value above R500 001 up to R1 000 000	Sum					
1.2.3	Work project value above R1 000 001 up to R3 000 000	Sum					
1.2.4	Work project value above R3 000 001 up to R6 000 000	Sum					
1.2.5	Work project value above R6 000 001 up to R10 000 000	Sum					
1.3	LABOURER CHARGES Supply the following labour teams based on normal hours labour rates for labour only works including collecting free-issue materials from CoCT stores including call-out rate, transport, incidental costs, safety equipment, etc.						
1.3.1	Labour only rate: Labourer	hr					
1.3.2	Labour only rate: Artisan	hr					
1.3.3	Labour only rate: General Worker	hr					

1.3.4	Labour only rate: Cleaner	hr					
1.3.5	Labour only rate: Electrician	hr					
1.3.6	Labour only rate: Flag person	hr					
1.3.7	Labour only rate: Drivers/Plant operators	hr					
1.4	Additional labour rates over and above the normal working hour rates for labour teams/individuals engaged in labour only works or other works that are required to be executed outside of the normal working hours, weekdays after hours and Saturdays:						
1.4.1	Labour only rate: Labourer	hr					
1.4.2	Labour only rate: Artisan	hr					
1.4.3	Labour only rate: General Worker	hr					
1.4.4	Labour only rate: Cleaner	hr					
1.4.5	Labour only rate: Electrician	hr					
1.4.6	Labour only rate: Flag person	hr					
1.4.7	Labour only rate: Drivers/Plant operators	hr					
1.4.8	Call out fee (Emergency Work) - Weekdays after hours and Saturdays	hr					
1.5	Additional labour rates over and above the normal working hour rates for labour teams/individuals engaged in labour only works or other works that are required to be executed outside of the normal working hours, Sundays and Public Holidays						
1.5.1	Labour only rate: Labourer	hr					
1.5.2	Labour only rate: Artisan	hr					
1.5.3	Labour only rate: General Worker	hr					
1.5.4	Labour only rate: Cleaner	hr					
1.5.5	Labour only rate: Electrician	hr					
1.5.6	Labour only rate: Flag person	hr					
1.5.7	Labour only rate: Drivers/Plant operators	hr					
1.5.8	Call out fee (Emergency Work) - Sundays, Public holidays	hr					
1.6	Employment of community liaison officer (CLO) for all purchase orders will come effect as required by the Employer:						
1.6.1	Employment of a CLO (community liaison officer) at the stipulated rate per eight hour day for the duration of the individual purchase orders	Day	R460.00	R460.00	R460.00	R460.00	R460.00
1.7	PRACTICAL COMPLETION REQUIREMENTS The following will be required (as applicable) for each works order issued to the contractor in order for Practical Completion for such works order to be achieved:						
	Certificate of Compliance:						
1.7.1	As required, provide Beetle Certificate for works order	sum					
1.7.2	As required, provide A19 Roof Certificate for works order	sum					
1.7.3	As required, provide Certificate of Compliance for waterproofing installation for works order	sum					
1.8	SPECIAL SECURITY						

	The contractor is referred to the Project Specific Specification setting out the Safety and Security Specifications applicable to this contract. These special requirements are over and above the standard provisions of the contract and are included to deal specifically with extortion risk related safety and security requirements.						
	TEMPORARY WORKS, PERSONNEL AND EQUIPMENT						
	PERIMETER FENCING AND GATES						
	<p>A buffer zone of minimum 1m around the perimeter fence shall be kept clear of vegetations, large rocks and other obstructions. Soil treatment and gravel layer may be required. Contractor's site establishment shall be set back a minimum of 5m from the perimeter fence and this buffer zone shall remain clear of trees, shrubs, grass and other obstructions in order to allow cameras to have a clear view of the area. The following shall be provided (elsewhere measured):</p> <p>- External perimeter security fencing 2.4 m high above ground consisting of 50 x 50 x 2.5mm galvanised welded mesh fixed with 100mm tanalis treated poles at 4m centres, completed with straining wires, etc (including soil treatment and gravel layer around fence - Vehicular sliding gate size 5m x 3 m high consisting of 50 x 50 x 2.5mm galvanised welded mesh on galvanised metal frame complete with track and anti-dig protection</p>						
1.8.1	Pedestrian 3-arm full height turnstile complete	No.					
1.8.2	Vehicular manual boom 3.0 m long complete	No.					
1.9	CCTV, ACCESS CONTROL, ALARM SYSTEMS, ELECTRIC FENCE ENERGISERS, CCT INTERFACE						
	All equipment, cabling support, etc. shall be suitable and rated for the specific site conditions. Factors such as corrosion, lightning, soil conditions, temperature, winds, humidity, rain, etc. shall be considered. Cables shall be installed in fully concealed piping. Junction boxes shall be avoided (if possible). but if visible, shall be tamper resistant. Optical fibre cabling shall be used for longer distances. The equipment enclosures shall be tamper resistant and mounted in non-obvious locations. e.g. in a separate room or in an area with limited access. Suitable security lighting shall be provided to allow the cameras and guards to functions optimally. Fence cameras may use their built in illuminators to detect intrusion. Rates shall include equipment mounting, supports, etc. additional items can be added if not specifically specified						
1.9.1	Supply and install temporary CCTV and accessories						
1.9.1.1	Gate camera	No.					
1.9.1.2	Face camera	No.					
1.9.1.3	Mounting pole 3m above ground	No.					
1.9.1.4	Camera equipment enclosure mounted on a pole including equipment	No.					
1.9.1.5	Network Video Recorder (NVR) including PoE switch (if applicable)	No.					
1.9.2	Supply and install temporary Access control and accessories						
1.9.2.1	Non-contact card reader	No.					
1.9.2.2	Access controllers	No.					
1.9.2.3	Gooseneck support for the vehicle entrance including mounting position for a face camera	No.					
1.9.3	Central equipment enclosure						
1.9.3.1	Tamper-resistant and lockable equipment enclosure in the site office. The enclosure shall house the video recorders, alarm controllers, access controllers, etc.	sum					
1.9.3.2	Battery backed power supply mounted in the enclosure	No.					

1.9.3.3	Firewall, VPN and other equipment required to allow a link to the central control room and remote access.	sum					
1.9.4	Repair and maintenance						
1.9.4.1	All systems shall be maintained in an optimal condition. Repairs, including spare parts shall be allowed for the full duration of the contract.	Per/month					
1.9.5	Installation						
1.9.5.1	The installation of the systems including, cabling, trenches, draw boxes, sleeves, conduits and other items not specifically included in other items.	Sum					
1.9.6	Testing, commissioning and training						
1.9.6.1	Testing and commissioning of all the system and the link to the central control room	sum					
1.9.6.2	Training of operators, guards and other relevant persons	sum					
1.9.7	The contractor shall make provision for the following security guards (Weekdays and Saturdays) with each guard equipped minimum with a radio, ID, baton, torch, body camera and emergency panic button, The security service providers must be registered with the Private Security Industry Regulatory Authority (PSIRA)						
1.9.7.1	Labour only rate grade A security guard with response motor vehicle	hr					
1.9.7.2	Labour only rate grade B security guard with response motor vehicle	hr					
1.9.7.3	Labour only rate grade C security guard with response motor vehicle	hr					
1.9.7.4	Labour only rate grade D security guard	hr					
1.9.7.5	Labour only rate grade E securityguard	hr					
1.9.8	The contractor shall make provision for the following security guards (Weekday overtime, Sundays and Public Holidays) with each guard equipped minimum with a radio, ID, baton, torch, body camera and emergency panic button, The security service providers must be registered with the Private Security Industry Regulatory Authority (PSIRA). Labour charges for special security of the works based on Sunday and Public Holidays						
1.9.8.1	Labour only rate grade A security guard with response motor vehicle	hr					
1.9.8.2	Labour only rate grade B security guard with response motor vehicle	hr					
1.9.8.3	Labour only rate grade C security guard with response motor vehicle	hr					
1.9.8.4	Labour only rate grade D security guard	hr					
1.9.8.5	Labour only rate grade E security guard	hr					
1.10	SECURITY GUARDHOUSE						
1.10.1	Supply, transport to site and remove from site	Day					
1.11	Asbestos Approved Inspection Authority (AAIA services)						
1.11.1	Appoint an AAIA to monitor and oversee the activities of the RAC to ensure compliance with the Asbestos Regulations of the OHS Act 1995, as amended, and the approved asbestos work plan Conduct asbestos air monitoring, conduct/ arrange for associated laboratory tests and submit test results and reports etc. (applicable only when required and an approval from the Project Manager will be required for each works project)	Prov Sum	R50 000.00	R50 000.00	R50 000.00	R50 000.00	R50 000.00
1.11.2	Contractors markup and attendance for the actual cost of the above. The Contractor to provide their percentage markup and attendance for the appointment of the AAIA. The percentage markup is to include administrative costs, overheads and contractors profits.	%					
1.12	ACCESS PLATFORMS, SCAFFOLDING, ROPE ACCESS						

	Scaffolding and Safe Working Platforms to be in compliance with ICS 91.220 ISB ISBN 0-626-15672-6 SANS 10085-1: 2004 Edition 1.1 SOUTH AFRICAN NATIONAL STANDARD the design, erection, use and inspection of access scaffolding Part 1: steel access scaffolding						
	Applicable safety measure in accordance with the Occupational Health and Safety Act 2015, Construction Regulations 2003. Rates must include the service of a certified Scaffolding supervisor and Scaffolding erector on each Works project where scaffolding is required. Supply, transport to site, erect, keep maintained in good order, dismantle and remove from site appropriate scaffolding including rental of equipment						
1.12.1	Single bay independent/ free standing scaffolding exceeding 2.5m high and not exceeding 5m high (to be multiplied by total bays required)	Day					
1.12.2	Single bay independent/ free standing scaffolding exceeding 5m high and not exceeding 10m high (to be multiplied by total bays required)	Day					
1.12.3	Single bay independent/ free standing scaffolding exceeding 10m high and not exceeding 15m high (to be multiplied by total bays required)	Day					
1.12.4	Single bay independent/ free standing scaffolding exceeding 15m high and not exceeding 20m high (to be multiplied by total bays required)	Day					
1.12.5	Single bay independent/ free standing scaffolding exceeding 20m high and not exceeding 25m high (to be multiplied by total bays required)	Day					
1.12.6	Single bay independent/ free standing scaffolding exceeding 25m high and not exceeding 30m high (to be multiplied by total bays required)	Day					
1.12.7	Single bay independent/ free standing scaffolding exceeding 30m high and not exceeding 35m high (to be multiplied by total bays required)	Day					
1.12.8	Single bay independent/ free standing scaffolding exceeding 40m high and not exceeding 45m high (to be multiplied by total bays required)	Day					
1.12.9	Single bay independent/ free standing scaffolding exceeding 50m high and not exceeding 55m high (to be multiplied by total bays required)	Day					
1.12.10	Single bay independent/ free standing scaffolding exceeding 60m high and not exceeding 65m high (to be multiplied by total bays required)	Day					
1.13	The service provider must be a member of the Rope Access and Fall Arrest Association. Supply, transport to site, erect, keep maintained in good order, dismantle and remove from site appropriate Rope access inclusive of rental of all necessary equipment thereof.						
1.13.1	For works exceeding 2.5m and not exceeding 5m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.2	For works exceeding 5m and not exceeding 10m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.3	For works exceeding 10m and not exceeding 15m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.4	For works exceeding 15m and not exceeding 20m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.5	For works exceeding 20m and not exceeding 25m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.6	For works exceeding 25m and not exceeding 30m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.7	For works exceeding 30m and not exceeding 35m high (Meter of rope required per works project to be multiplied by No. of days)	Day					

1.13.8	For works exceeding 35m and not exceeding 40m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.9	For works exceeding 40m and not exceeding 45m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.10	For works exceeding 45m and not exceeding 50m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.11	For works exceeding 50m and not exceeding 55m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.12	For works exceeding 55m and not exceeding 60m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.13	For works exceeding 60m and not exceeding 65m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.14	For works exceeding 65m and not exceeding 70m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.15	For works exceeding 70m and not exceeding 75m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.16	For works exceeding 75m and not exceeding 80m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.17	For works exceeding 80m and not exceeding 85m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.18	For works exceeding 85m and not exceeding 90m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.19	For works exceeding 90m and not exceeding 95m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.20	For works exceeding 95m and not exceeding 100m high (Meter of rope required per works project to be multiplied by No. of days)	Day					
1.13.21	Anchor Device Load Testing	No.					
1.13.22	Anchor Device Supply and Installation (per hook)	No.					
1.14	Vehicles, plant and equipment: (Rates to include fuel, operators costs, charges, overheads and profit).						
1.14.1	Cherry picker mobile access platform/aerial platform trucks with 17m vertical height reach	hr					
1.14.2	Cherry picker mobile access platform/aerial platform trucks with 20m vertical height reach	hr					
1.14.3	Cherry picker mobile access platform/aerial platform trucks with 22m vertical height reach	hr					
1.14.4	Cherry picker mobile access platform/aerial platform trucks with 25m vertical height reach	hr					
1.14.5	Cherry picker mobile access platform/aerial platform trucks with 30m vertical height reach	hr					
1.14.6	Cherry picker mobile access platform/aerial platform trucks with 35m vertical height reach	hr					
1.14.7	Cherry picker mobile access platform/aerial platform trucks with 40m vertical height reach	hr					
1.15	CCTV INSPECTIONS AND REPORTS Provide CCTV camera inspection, assessment and report						

1.15.1	CCTV camera inspection and assessment for nominal diameters up to 100m	m					
1.15.2	CCTV camera inspection and assessment for nominal diameters exceeding 100m and not exceeding 160mm	m					
1.15.3	CCTV camera inspection and assessment for nominal diameters exceeding 160m and not exceeding 200mm	m					
1.16	As-Built drawings						
1.16.1	As-built drawings per project	Prov Sum	R25 000.00	R25 000.00	R25 000.00	R25 000.00	R100 000.00
1.16.2	Profit and attendance on item above	%					
1.17	Contingencies per Works Project						
1.17.1	Allow a contingency of 10% of the Works Project (quotation) value at the discretion of the Principal Agent	%	10.00	10.00	10.00	10.00	10.00
1.18	JBCC Principal Building Agreement: Clause 26.2.3						
1.18.1	Where 26.2.1-26.2.2 do not apply, work shall be priced at rates based on the necessary use of labour, construction equipment and/or materials and goods for executing the work	Prov Sum	R50 000.00	R50 000.00	R50 000.00	R50 000.00	R100 000.00
1.18.2	Profit and attendance on item above	%	10.00	10.00	10.00	10.00	10.00
2	BILL NO. 2						
	ALTERATIONS						
	(CPAP WORK GROUP 102 UNLESS OTHERWISE STATED)						
	PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document. The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - work both inside and outside of existing buildings - carting all materials to work area to maximum 4 storeys high, whether internal or external - cleaning up of work area upon completion - protecting of existing premises - work in small quantities - All plant, equipment and tools required to carry out the work. Specifications, drawings, etc. The rates for each item under Bill No. 2 Alterations shall include carting off site at regular intervals and correctly disposing of the rubble (unless specifically described as being set aside for re-use): Tenderers are referred to the specification accompanying these bills of quantities for the alteration work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification. Where there is conflict between the Model Preambles and the Specifications, the Specifications will take preference. The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures and must make good at his expense any damage that may occur.						
	The Contractor shall immediately notify the Representative/Agent and the Authorities concerned and shall at his own cost make all necessary arrangements for disconnection and repairs with the relevant Authorities and shall pay all fees and charges levied. Disposal of material: All existing materials specified to be "removed", "demolished and removed", "hacked up or off and removed", or "taken down or off and removed" or "broken down and removed", etc., become the property of the Contractor. These materials and all debris, rubbish and earth must be carted away by the Contractor and the site must be left clean and unencumbered. The Contractor must make his own arrangements for dumping and shall pay all fees and charges levied. If any of the bricks or other materials specified to be "removed" are sound and considered suitable for any portion of the new work they must be thoroughly cleaned off and stacked on site for inspection by the Representative/Agent. The approval of the Representative/Agent must be obtained before any such materials are re-used in the new work.						

	<p>Old materials to become property of the contractor: Old materials from alterations except where described to be re-used or handed over in each Works Project Documents, become the property of the contractor and are to be removed off site.</p> <p>Old materials to be carted away Old materials from alterations except where described as re-used or handed over in each Works Project Document, as well as all rubbish, etc. must be regularly carted from the site and not be allowed to accumulate on or around the site.</p> <p>Old materials to be re-used None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p> <p>Handing over of materials Where certain materials or articles from alterations are described as to be handed over by the contractor to the Principal Agent or Employer's Representative such materials or articles shall be properly stored by the contractor until handing over thereof. The contractor must obtain an official receipt listing the materials or articles and dates of handover. If the contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the contractor.</p>						
	All existing materials specified to be "taken down and set aside for re-use" or "taken down and set aside" shall remain the property of the Employer and must be cleaned off, cleared of all nails, etc., and neatly stacked and stored on site by the Contractor where directed and carefully handled during taking down, storage and re-fixing. The Contractor will be held responsible for the safety of these materials and must take all necessary precautions for their protection and any damage or loss that may occur must be made good by the Contractor at his own expense.						
2.1	Carefully remove existing waterproofing, roof coverings and accessories etc. cart off site and dispose:						
2.1.1	Strip and remove existing waterproofing membrane to expose screeded surface and prepare surfaces for new waterproofing including sweeping surfaces clean leaving free from dust, oils and other contaminants. Where necessary and possible, all equipment to be disconnected and removed to allow for priming and waterproofing and undertake patch repairs to existing screed using an approved repair mortar, to manufacturers specifications and instructions (Measured elsewhere)						
2.1.1.1	On flat roofs	m ²					
2.1.1.2	On Basements / Parking Areas	m ²					
2.1.1.3	On bottoms and sides of planter boxes	m ²					
2.1.1.4	On roof gardens	m ²					
2.1.1.5	On tops and sides of inverted beams	m ²					
2.1.1.6	On flat floors and slabs	m ²					
2.1.1.7	To Flashings	m					

2.1.1.8	To counter flashings	m					
2.1.1.9	To water channels	m					
2.1.1.10	To water outlets	m					
2.2	Removal of roof coverings, ceilings and accessories including cart off site and disposal Note: The contractor shall keep the area of the works, where the roof has been removed, weatherproof by means of tarpaulins, etc. for the entire period that the area is without a permanent weatherproof roof covering. The cost of all repairs consequential upon the contractor failing to comply with the requirements will be for the contractor's sole account.						
2.2.1	Corrugated, IBR etc. Roof Covering including accessories	m²					
2.2.2	"Diamonddek" or equivalent & "Kliplock" or equivalent profile roof coverings including accessories	m²					
2.2.3	"Supa Clad" or equivalent profile roof coverings including accessories	m²					
2.2.4	Translucent roof coverings including accessories	m²					
2.2.5	Roof tiles/slates all makes and profiles including 38 x 38mm battens at 400mm centres and other accessories	m²					
2.2.6	Thatch roof covering including accessories	m²					
2.3	Removal of other roof covering accessories including disposal						
2.3.1	75 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.2	100 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.3	100 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.4	125 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.5	125 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.6	125 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.7	150 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.8	150 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.9	150 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.10	150 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	m					
2.3.11	175 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.12	175 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.13	175 x 65 x 20 x 3mm Thick cold-formed lipped channel purlins	m					
2.3.14	175 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	m					
2.3.15	175 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	m					
2.3.16	225 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	m					
2.3.17	250 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	m					
2.3.18	75 x 40 x 20 x 2,5mm Thick cold-formed lipped channel girts	m					
2.3.19	100 x 50 x 20 x 3mm Thick cold-formed lipped channel girts	m					
2.3.20	120 x 60 x 20 x 3,5mm Thick cold-formed lipped channel girts	m					
2.3.21	150 x 75 x 20 x 4mm Thick cold-formed lipped channel girts	m					

2.3.22	38 x 38mm timber battens	m					
2.3.23	50x38mm timber battens	m					
2.3.24	38mm x 38mm battens and purlins	m					
2.3.25	38mm x 50mm Battens and purlins	m					
2.3.26	50mm x 50mm Battens and purlins	m					
2.3.27	38mm x 114mm wall plates	m					
2.3.28	230mm x 22mm valley board	m					
2.3.29	38mm 76mm valley bearers	m					
2.3.30	19mm x 38mm eave tilting battens	m					
2.3.31	50mm x 76mm purlins	m					
2.3.32	50mm x 114mm rafters	m					
2.3.33	50mm x 150mm rafters	m					
2.3.34	12 x 225mm Wide Fascia Board	m					
2.3.35	12 x 225mm Wide Barge Board	m					
2.3.36	22mm x 152mm fascia and barge boards	m					
2.3.37	22mm x 225mm fascia and barge boards	m					
2.3.38	8mm x 44mm cover strips	m					
2.3.39	13mm quadrant	m					
2.3.40	19mm quadrant	m					
2.3.41	32mm quadrant	m					
2.3.42	19mm Half round	m					
2.3.43	32mm Half round quadrant	m					
2.3.44	Insulation, various thicknesses and materials	m ²					
2.3.45	Malthoid underlay to roof coverings	m ²					
2.3.46	Valley linings	m ²					
2.4	REMOVAL OF EXISTING ASBESTOS The removal of asbestos must be undertaken by a Registered Asbestos Contractor (RAC). The handling, transporting and disposal of asbestos material is to be executed strictly in accordance with the Asbestos Regulations, Occupational Health & Safety Act and any other applicable legislation, policies and guidelines. The contractor is to provide proof of notification of asbestos work to the Department of Labour, a clearance certificate and proof of disposal at an approved dumping site.						

2.4.1	<p>Taking down and removing Asbestos rainwater goods eg: gutters, downpipes, etc., including all fittings and fixtures and cutting off as necessary (all in compliance with Health and Safety requirements priced in the preliminaries section)</p> <p>Note: The contractor shall keep the area of the works, where the roof has been removed, weatherproof by means of tarpaulins, etc. for the entire period that the area is without a permanent weatherproof roof covering. The cost of all repairs consequential upon the contractor failing to comply with the requirements will be for the contractor's sole account.</p>						
2.4.1.1	Asbestos gutters, complete	m					
2.4.1.2	Asbestos facias, complete	m					
2.4.1.3	Asbestos downpipes with offsets, shoes and brackets etc.	m					
2.4.2	<p>Taking down and removing Asbestos roof coverings, including all sundry items (all in compliance with Health and Safety requirements priced in the preliminaries section)</p> <p>Note: The contractor shall keep the area of the works, where the roof has been removed, weatherproof by means of tarpaulins, etc. for the entire period that the area is without a permanent weatherproof roof covering. The cost of all repairs consequential upon the contractor failing to comply with the requirements will be for the contractor's sole account.</p>						
2.4.2.1	Asbestos roof covering, complete	m ²					
2.4.2.2	Asbestos wall cladding	m ²					
2.4.2.3	Asbestos ridging	m					
2.4.2.4	Asbestos barge board	m					
2.4.2.5	Asbestos fascia board	m					
2.4.2.6	Asbestos sun screens	m ²					
2.4.3	<p>Taking down and removing Asbestos ceilings, including all sundry items (all in compliance with Health and Safety requirements priced in the preliminaries section)</p> <p>Note: The contractor shall keep the area of the works, where the roof has been removed, weatherproof by means of tarpaulins, etc. for the entire period that the area is without a permanent weatherproof roof covering. The cost of all repairs consequential upon the contractor failing to comply with the requirements will be for the contractor's sole account.</p>						
2.4.3.1	Asbestos ceilings, complete	m ²					
2.5	Removal of ceilings (In patches) including cart off site and disposal						
2.5.1	Suspended ceilings including grid, etc	m ²					
2.5.2	Gypsum plasterboard ceilings (branders left in position)	m ²					
2.5.3	Cornices from brickwork	m ²					
2.5.5	Acoustic tile suspended ceilings including suspension grid, hangers, etc.	m ²					
2.6	Carefully take down, remove, cart off site and dispose of sundry roof items, etc:						
2.6.1	Carefully cut out damaged tongued and grooved timber roof boarding in patches	m ²					
2.6.2	Eaves, eaves closure and barge boards	m					

2.6.3	Slatted timber eaves soffit lining	m²					
2.6.4	Fullbore outlets	No.					
2.6.5	Air-conditioning unit up to 14000 BTU	No.					
2.6.6	Air-conditioning unit above 14 000 to 18 000 BTU	No.					
2.6.7	Air-conditioning unit above 18 000 to 48 000 BTU	No.					
2.6.8	Water tank up to 200 litres	No.					
2.6.9	Water tank above 200 up to 500 litres	No.					
2.6.10	Water tank exceeding 500 litres not exceeding 2500 litres	No.					
2.6.11	Water tank exceeding 2500 litres exceeding 5000 litres	No.					
2.6.12	Solar water heaters/geyser up to 150 litres	No.					
2.6.13	Solar water heaters/geyser above 150 to 250 litres	No.					
2.6.14	Galvanised steel whirly birds	No.					
2.6.15	Antennas, including removing all fixings	No.					
2.6.16	Flag poles	No.					
2.7	Carefully take down, remove, cart off site and dispose of gutters, downpipes including accessories and make good remaining surfaces and finishes to receive new						
2.7.1	uPVC Gutter and downpipes with offsets, shoes, brackets, etc.	m					
2.7.2	Aluminium Gutter and downpipes with offsets, shoes, brackets, etc.	m					
2.7.3	Fibre cement box gutters with offsets, shoes and brackets, etc. not exceeding 600mm girth	m					
2.7.4	Fibre cement box gutters with offsets, shoes and brackets, etc. exceeding 600mm girth	m					
2.7.5	Fibre cement downpipes with offsets, shoes and brackets, etc.	m					
2.7.6	Steel box gutters not exceeding 600mm girth	m					
2.7.7	Steel box gutters exceeding 600mm girth	m					
2.7.8	Accessories only including shoes, brackets, holderbats etc.	No.					
2.8	CLEAN DOWN SURFACES						
2.8.1	Clean fibre cement roof, gutters and downpipes by means of high pressure water jet including valleys, hips, gable ends etc:						
2.8.1.1	All profiled fibre cement roof covering types with pitches not exceeding 25 degrees	m²					
2.8.1.2	All profiled fibre cement roof covering types with pitches exceeding 25 degrees	m²					
2.8.2	Clean various types of roof sheetings, PVC/Aluminium gutters and downpipes by means of high pressure water jet including valleys, hips, gable ends etc:						
2.8.2.1	Roof to general building areas with pitch not exceeding 25 degrees	m²					
2.8.2.2	Roof to general building areas with pitch exceeding 25 degrees	m²					
2.8.2.3	Side cladding	m²					
2.8.2.4	PVC gutters and downpipes including sealing all joints and leave fully functional	m					
2.8.2.5	Aluminium gutters and downpipes including sealing all joints and leave fully functional	m					
2.8.3	Clean slate tiles, fibre cement gutters and downpipes by means of high pressure water jet including valleys, hips, gable ends etc:						

2.8.3.1	Roof to general building areas with pitch not exceeding 25 degrees	m²					
2.8.3.2	Roof to general building areas with pitch exceeding 25 degrees	m²					
2.8.3.3	Clean existing 100mm full-bore mechanically	No.					
2.8.4	Clean other surfaces by means of high pressure water jet, complete						
2.8.4.1	Concrete roofs, soffits etc	m²					
2.8.5	Removal of plants and debris						
2.8.5.1	Removal of plants and debris from roof coverings	m²					
2.8.5.2	Removal of plants and debris from gutters and downpipes	m					
2.9	SERVICING AND REPAIRS TO EXISTING ROOFS						
2.9.1	Service and make good existing roof coverings:						
2.9.1.1	Service and make good the existing roof coverings including refixing roof sheets with new galvanised screws, patching all roof leaks with derbigum or equivalent, and leave roof in fully functional state for end user	m²					
2.9.2	Repairs to existing valley linings etc:						
2.9.2.1	Carefully lift up and set aside existing roof sheeting, remove entire existing valley lining and replace with new 450 x 6mm thick aluminium valley lining with riveted and soldered joints, including all required laps, fittings, etc, and including re-fixing existing roof sheeting	m					
2.9.3	Repair to roofs:						
2.9.3.1	Inspect fibre cement roof sheeting, remove and replace all marked, defective or broken sheets in isolated areas with matching new sheets, replace all missing roofing accessories, replace defective and missing screws, etc. all to match existing, thoroughly clean down, leave watertight and prepare for painting (painting elsewhere)	m²					
2.9.3.2	Inspect tiled roof covering, remove and replace all marked, defective or broken tiles in isolated areas with matching new tiles, replace all missing roofing accessories, replace defective and missing screws, etc. all to match existing, thoroughly clean down, leave watertight and prepare for painting if necessary (painting elsewhere)	m²					
2.9.3.3	Strip and remove existing broken tiles and replace with existing tiles provided by Employer. Existing roof tiles to be fixed to existing timber battens with new galvanised nails and storm clips.	m²					
2.9.3.4	Replace broken ridge and hip tiles with existing ridge tiles provided by Employer. Existing roof tiles to be fixed to existing timber battens with new galvanised nails and storm clips.	m					
2.9.3.5	Inspect steel roof sheeting, remove and replace all marked, defective or broken sheets in isolated areas with matching new sheets, replace all missing roofing accessories, replace defective and missing screws, etc. all to match existing, thoroughly clean down, leave watertight and prepare for painting if necessary (painting elsewhere)	m²					
2.9.3.6	Remove all surface rust on metal roofs with a suitable etch primer and apply One coat of a.b.e proof Acrylic Primer or equivalent, allow to dry and apply two coats of a.b.e proof PU ECO or equivalent waterproofing coating with a a.b.e membrane Polyethylene between coats	m²					
2.9.3.7	Carefully clean and apply One coat of a.b.e proof Acrylic Primer or equivalent, allow to dry and apply two coats of a.b.e proof PU ECO or equivalent waterproofing coating with a a.b.e membrane Polyethylene between coats	m²					
2.9.3.8	Inspect fibre cement/timber bargeboard, remove and replace all marked, defective or broken barge boards with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for painting (painting elsewhere)	m					

2.9.3.9	Inspect fibre cement/timber fascias, remove and replace all marked, defective or broken fascias with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for painting (painting elsewhere)	m					
2.9.3.10	Inspect fibre cement eaves gutters and brackets, remove and replace all marked, defective or broken gutters and brackets with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for and replace sealant in joints, leave watertight and prepare for painting (painting elsewhere)	m					
2.9.3.11	Inspect fibre cement rainwater pipes and holderbats, remove and replace all marked, defective or broken parts with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for and replace sealant in joints, leave watertight and prepare for painting (painting elsewhere)	m					
2.9.3.12	Inspect uPVC eaves gutters and brackets, remove and replace all marked, defective or broken gutters and brackets with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for and replace sealant in joints and leave watertight.	m					
2.9.3.13	Inspect uPVC rainwater pipes and holderbats, remove and replace all marked, defective or broken parts with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for and replace sealant in joints and leave watertight.	m					
2.9.3.14	Inspect Aluminium gutters and brackets, remove and replace all marked, defective or broken gutters and brackets with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for and replace sealant in joints and leave watertight.	m					
2.9.3.15	Inspect Aluminium rainwater pipes and holderbats, remove and replace all marked, defective or broken parts with matching new parts, replace all missing parts, replace defective and missing screws, etc. all to match existing, thoroughly clean down and prepare for and replace sealant in joints and leave watertight.	m					
2.9.3.16	Replace existing damaged valley lining with new 0.6mm thick aluminium valley lining.	m					
2.9.3.17	Supply and fit new 38 x 38mm battens to sagging areas of roofs	m					
2.9.3.18	Carefully clean organic growth, fungus, and mould with high pressure cleaning system or sand blasting machine on all roof coverings / structures	m²					
2.9.3.19	Carefully inspect and cleaning of blocking downpipes, gutters full bores including removal of plants, debris etc.	m					
2.9.3.20	Inspect the entire rainwater goods and secure any loose fittings or replace missing parts	m					
2.9.3.21	Inspect the entire roof covering for leaks and apply approved sealer that is inline with the manufacturer of the roof covering thereof recommendations & specifications, to joints or around nails	m²					
2.10	SERVICING AND REPAIRS TO EXISTING WATERPROOFING						

2.10.1	One layer 10mm thick' approved concrete repair mortar' to cracks. Include one layer 250mm wide Bituthene 3000' or equivalent bandage flashings, one layer 1,7mm ' Bituthene 5000' or equivalent waterproofing membranes and 'Bituthene Mastic' or equivalent edges complete.						
2.10.1.1	On flat roofs to cracks in patches	m					
2.11	STRUCTURAL REPAIRS, CRACKS ETC.						
2.11.1	Chip, scrape or grind open cracks and mechanically clean substrate to remove all dust and loose material, apply 'Sikadur - 52' or equivalent crack injection system to rigidly bond substrates together, all in accordance with manufacturer's instructions.						
2.11.1.1	Repair cracks in brick walls	m					
2.11.1.2	Repair cracks in concrete ceilings	m					
2.11.2	Large wall cracks in brickwork						
2.11.2.1	<ul style="list-style-type: none"> Remove plaster for 150mm both sides of crack. Rake out crack of all loose material and dust. Fill crack using Sika Anchorfix or equivalent pushed deep into crack and replaster using plaster mesh over crack line 	m					
2.11.3	Repair spalling concrete with "ABE durarep GT" or equivalent structural repair mortar applied in accordance with manufacturer's instructions: Expose all corroded reinforcement (all diameters), remove corrosion and apply one coat durarep ZR or equivalent primer:						
2.11.3.1	On beams	m ²					
2.11.3.2	On columns	m ²					
2.11.3.3	On slabs	m ²					
2.11.4	Apply one coat "durabond' or equivalent bonding liquid to exposed surfaces to be repaired in accordance with manufacturer's instructions:						
2.11.4.1	On beams	m ²					
2.11.4.2	On columns	m ²					
2.11.4.3	On slabs	m ²					
2.11.5	Apply "Durarep Gt" or equivalent cementitious mortar to primed concrete surfaces in accordanc with manufacturer's instructions:						
2.11.5.1	On beams	m ²					
2.11.5.2	On columns	m ²					
2.11.5.3	On slabs	m ²					
2.11.6	Repairs to spalling concrete						
2.11.6.1	<ul style="list-style-type: none"> Remove all loose concrete back to clean steel Clean exposed and corroded steel using sand blasting Call Engineer if loss of steel area due to corrosion is greater than 10% Apply Sika Armatech 110 Epocem or equivalent to all steel and concrete surfaces Apply Sika Monotop 615HB or equivalent in layers not exceeding 50mm out to finished profile. 	m ²					
2.11.7	Repairs to plaster cracks from 1.0mm to 5.0mm						

2.11.7.1	<ul style="list-style-type: none"> Remove plaster for a distance of 200mm either side of the crack. Grind out crack to form a 30x5mm slot and clean of all dust and loose material using brush or preferably compressed air. Using an Epoxy based adhesive grout filler such as Sika Anchorfix 2, Sikadur 31CF (or approved equivalent), nozzle grout well into crack using a grouting/sealant gun to get deep as possible penetration. Drill holes to get nozzle deep into wall depth. Finish flush with the brick face. Allow to dry. Re-plaster using Plastermesh across crackline. (Plastering measured elsewhere) 	m					
2.12	REMOVAL AND REINSTATEMENT OF SUNDRY ITEMS						
2.12.1	Carefully disconnect, taking up/down, remove and set aside for re-use including reinstatement of the existing services, including electrical cables, etc. on top of roofs:						
2.12.1.1	Air-conditioning unit up to 14000 BTU	No.					
2.12.1.2	Air-conditioning unit above 14 000 to 18 000 BTU	No.					
2.12.1.3	Air-conditioning unit above 18 000 to 48 000 BTU	No.					
2.12.1.4	Water tank up to 200 litres	No.					
2.12.1.5	Water tank above 200 up to 500 litres	No.					
2.12.1.6	Water tank not exceeding 2500 litres	No.					
2.12.1.7	Water tank exceeding 5000 litres	No.					
2.12.1.8	Solar water heaters/geyser up to 150 litres	No.					
2.12.1.9	Solar water heaters/geyser above 150 to 250 litres	No.					
2.12.1.10	Galvanised steel whirly birds	No.					
2.12.1.11	Antennas, including removing all fixings	No.					
2.12.1.12	Flag poles	No.					
2.12.1.13	Disconnecting, re-routing and re-connecting of water pipes and valves	m					
2.12.2	Removal of PV Panels for roof repairs/replacement and reinstatement upon completion						
2.12.2.1	Photovoltaic panels of approxiamtely 1500 x 1000mm	No.					
2.12.2.2	Photovoltaic panels of approxiamtely 2000 x 1000mm	No.					
2.12.2.3	Photovoltaic panels of approxiamtely 2500 x 1000mm	No.					
2.12.2.4	Photovoltaic panels of approxiamtely 3000 x 1000mm	No.					
2.12.2.5	Photovoltaic panels of approxiamtely 3500 x 1000mm	No.					
2.12.2.6	Photovoltaic panels of approxiamtely 4000 x 1000mm	No.					
2.12.2.7	Photovoltaic panels of approxiamtely 4500 x 1000mm	No.					
2.12.2.8	Photovoltaic panels of approxiamtely 5000 x 1000mm	No.					
2.12.2.9	Photovoltaic panels of approxiamtely 5500 x 1000mm	No.					
2.13	Alterations and repairs to stormwater drainage systems, rainwater goods and fittings. Thoroughly cleaning down of all dirt from all surfaces, checking all connections, including replacing all minor damaged or missing parts securely in position						
2.13.1	Water channels, box gutters, etc.	m					
2.13.2	Fullbores, outlets, cover, etc.	No.					

2.14	Cast iron fullbore outlet in repair to existing:						
2.14.1	110mm Vertical outlet with dome grating including 600mm long outlet pipe	No.					
2.14.2	110mm Diameter fullbore top and grating replacement to existing outlet	No.					
2.15	Alterations and repairs to all profiled metal roofs						
2.15.1	Remove all surface rust on metal roofs with a suitable etch primer and apply One coat of a.b.e proof Acrylic Primer or equivalent, allow to dry and apply two coats of a.b.e proof PU ECO or equivalent waterproofing coating with a a.b.e membrane Polyethylene between coats	m²					
2.15.2	Remove all surface rust on metal roofs with a suitable etch primer and apply One coat of a.b.e proof Acrylic Primer or equivalent, allow to dry and apply two coats of a.b.e proof PU ECO or equivalent waterproofing coating with a a.b.e membrane Polyethylene between coats	m²					
2.16	Alterations and repairs to existing roof tiles						
2.16.1	Jet wash roof and apply One coat of a.b.e proof Acrylic Primer or equivalent, allow to dry and apply two coats of a.b.e proof PU ECO or equivalent waterproofing coating with a a.b.e membrane Polyethylene between coats	m²					
2.17	CORE DRILLING						
2.17.1	Concrete core drilling of holes not exceeding 50mm	No.					
2.17.2	Concrete core drilling of holes exceeding 50mm and not exceeding 80mm	No.					
2.17.3	Concrete core drilling of holes exceeding 80mm and not exceeding 100mm	No.					
2.17.4	Concrete core drilling of holes exceeding 100mm and not exceeding 200mm	No.					
2.18	BREAKING UP AND REMOVING UNREINFORCED CONCRETE						
2.18.1	Top section concrete plinth slab not exceeding 150mm thick	m²					
2.18.2	Top section concrete plinth slab exceeding 150mm thick but not exceeding 300mm thick	m²					
2.18.3	Top section concrete plinth slab exceeding 300mm thick but not exceeding 400mm thick	m²					
2.19	Building up walls of NFX bricks (14 MPa nominal compressive strength) in class II mortar:						
2.19.1	Half brick walls in beam filling	m²					
2.19.2	One brick walls in beam filling	m²					
2.20	Flood Testing of Waterproofed Areas using Dye						
2.20.1	Supply all necessary materials, equipment, and labor to conduct flood testing on waterproofed sections using a suitable non-toxic dye. The process includes controlled water ponding for a minimum of 24 hours, monitoring for leaks, and post-test drainage. The rate includes the cost of temporary containment, site supervision, and disposal of test water in accordance with environmental regulations.	m²					
2.21	Relining of Cast Iron Downpipes:						
2.21.1	Supply all materials, equipment, and labor to internally reline existing cast iron downpipes. The process includes cleaning, descaling and preparing the internal surface, followed by the application of a high-performance epoxy or resin-based liner to restore functionality and extend service life. Work to include access provision, temporary drainage redirection (if required), testing upon completion, and removal of debris.	m					
3	BILL NO. 3						
	WATERPROOFING						
	(CPAP WORK GROUP 120 UNLESS OTHERWISE STATED)						
	PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						

	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						
	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following - scaffolding up to 2.5m high - work both inside and outside of existing buildings - carting all materials to work area to maximum 4 storeys high, whether internal or external - cleaning up of work area upon completion - protecting of existing premises –						
	Preparation of Substrates & Surfaces Substrates and surfaces must be smooth, clean, free of contaminants and dry. Substrates and surfaces must be prepared in accordance with manufacturer's instructions and specifications. The contractor is to allow for the cost of substrate preparation in the rates for Waterproofing items. Waterproofing to roofs, basements, parking decks, etc. Must be installed by Manufacturer approved contractors and shall provide a minimum 10 year product guarantee (except patchwork) or as per the Manufacturers warranty and a 2 year workmanship warranty. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs. The method of application to be discussed with and approved by the Principal Agent before implementation.						
3.1	SEALING STRIPS, JOINT SEALANTS, ETC Joint sealants are to be used in strict accordance with manufacturer's methods and specifications.						
3.1.1	"Compriband" or equivalent bitumen impregnated foam plastic joint sealing strips						
3.1.1.1	Between Aluminium frames and walls	m					
3.1.1.2	Between steel frames and walls	m					
3.1.1.3	In expansion joints	m					
3.1.2	"Sikaflex 11FC" or equivalent one-part grey polyurethane sealing compound including backing cord, bond breaker, primer, etc inclusive of an overcoat with an approved high quality PVA paint.						
3.1.2.1	6 x 8 mm in construction joints on floors and slabs	m					
3.1.2.2	6 x 10mm In saw cut joints in floors and slabs	m					
3.1.2.3	10 x10mm In expansion joints on walls and beams	m					
3.1.2.4	10 x 10mm In expansion joints on floors and slabs	m					
3.1.2.5	10 x 20 mm In vertical joints	m					
3.1.2.6	10 x 20mm In Horizontal joints	m					
3.1.2.7	6 x 25mm In vertical expansion joints	m					
3.1.2.8	10 x 25mm In horizontal expansion joints	m					
3.1.2.9	10 x 25mm In expansion joints in slabs	m					
3.1.2.10	10 x 25mm In vertical expansion joints	m					
3.1.2.11	20 x 30 mm in horizontal joints	m					
3.1.2.12	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					

3.1.2.13	10 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.14	10 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.15	10 x 10mm In expansion joints in tiled walls etc	m					
3.1.2.16	10 x 10mm In expansion joints in tiled floors etc	m					
3.1.2.17	6 x 8mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.2.18	6 x 8mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.19	6 x 8mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.20	6 x 8mm In expansion joints in tiled walls etc	m					
3.1.2.21	6 x 8mm In expansion joints in tiled floors etc	m					
3.1.2.22	6 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.2.23	6 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.24	6 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.25	6 x 10mm In expansion joints in tiled walls etc	m					
3.1.2.26	6 x 10mm In expansion joints in tiled floors etc	m					
3.1.2.27	10 x 20mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.2.28	10 x 20mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.29	10 x 20mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.30	10 x 20mm In expansion joints in tiled walls etc	m					
3.1.2.31	10 x 20 mm In expansion joints in tiled floors etc	m					
3.1.2.32	6 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.2.33	6 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.34	6 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.35	6 x 25mm In expansion joints in tiled walls etc	m					
3.1.2.36	10 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.2.37	10 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.38	10 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.39	10 x 25mm In expansion joints in tiled walls etc	m					
3.1.2.40	10 x 25mm In expansion joints in tiled floors etc	m					
3.1.2.41	20 x 30 mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.2.42	20 x 30 mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.2.43	20 x 30 mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.2.44	20 x 30 mm In expansion joints in tiled walls etc	m					
3.1.2.45	20 x 30 mm In expansion joints in tiled floors etc	m					
3.1.3	Approved silicone "Dowsil 813C" sealing compound or equivalent including backing cord, bond breaker, primer etc.						
3.1.3.1	6 x 8 mm in construction joints on floors and slabs	m					
3.1.3.2	6 x 10mm In saw cut joints in floors and slabs	m					

3.1.3.3	10 x 10mm In expansion joints on walls	m					
3.1.3.4	10 x 10mm In expansion joints on floors and slabs	m					
3.1.3.5	10 x 20 mm In vertical joints	m					
3.1.3.6	10 x 20mm In Horizontal joints	m					
3.1.3.7	6 x 25mm In vertical expansion joints	m					
3.1.3.8	10 x 25mm In horizontal expansion joints	m					
3.1.3.9	10 x 25mm In expansion joints in slabs	m					
3.1.3.10	10 x 25mm In vertical expansion joints	m					
3.1.3.11	20 x 30 mm in horizontal joints	m					
3.1.3.12	6 x 8 mm in construction joints on floors and slabs	m					
3.1.3.13	6 x 10mm In saw cut joints in floors and slabs	m					
3.1.3.14	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.15	10 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.16	10 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.17	10 x 10mm In expansion joints in tiled walls etc	m					
3.1.3.18	10 x 10mm In expansion joints in tiled floors etc	m					
3.1.3.19	6 x 8mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.20	6 x 8mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.21	6 x 8mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.22	6 x 8mm In expansion joints in tiled walls etc	m					
3.1.3.23	6 x 8mm In expansion joints in tiled floors etc	m					
3.1.3.24	6 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.25	6 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.26	6 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.27	6 x 10mm In expansion joints in tiled walls etc	m					
3.1.3.28	6 x 10mm In expansion joints in tiled floors etc	m					
3.1.3.29	10 x 20mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.30	10 x 20mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.31	10 x 20mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.32	10 x 20mm In expansion joints in tiled walls etc	m					
3.1.3.33	10 x 20 mm In expansion joints in tiled floors etc	m					
3.1.3.34	6 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.35	6 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.36	6 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.37	6 x 25mm In expansion joints in tiled walls etc	m					
3.1.3.38	6 x 25mm In expansion joints in tiled floors etc	m					

3.1.3.39	10 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.40	10 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.41	10 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.42	10 x 25mm In expansion joints in tiled walls etc	m					
3.1.3.43	10 x 25mm In expansion joints in tiled floors etc	m					
3.1.3.44	20 x 30 mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.3.45	20 x 30 mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.3.46	20 x 30 mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.3.47	20 x 30 mm In expansion joints in tiled walls etc	m					
3.1.3.48	20 x 30 mm In expansion joints in tiled floors etc	m					
3.1.4	'Bitumastic' Mapeflex Blackfill or equivalent joint sealants, including backing cord, bond breaker, primer, etc.						
3.1.4.1	10 x 10mm In expansion joints on walls	m					
3.1.4.2	10 x 10mm In expansion joints on floors and slabs	m					
3.1.4.3	10 x 20 mm In vertical joints	m					
3.1.4.4	10 x 20mm In Horizontal joints	m					
3.1.4.5	6 x 25mm In vertical expansion joints	m					
3.1.4.6	10 x 25mm In horizontal expansion joints	m					
3.1.4.7	10 x 25mm In expansion joints in slabs	m					
3.1.4.8	20 x 30 mm in horizontal joints	m					
3.1.4.9	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.10	10 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.4.11	10 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.12	10 x 10mm In expansion joints in tiled walls etc	m					
3.1.4.13	10 x 10mm In expansion joints in tiled floors etc	m					
3.1.4.14	6 x 8mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.15	6 x 8mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.4.16	6 x 8mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.17	6 x 8mm In expansion joints in tiled walls etc	m					
3.1.4.18	6 x 8mm In expansion joints in tiled floors etc	m					
3.1.4.19	6 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.20	6 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.4.21	6 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.22	6 x 10mm In expansion joints in tiled walls etc	m					
3.1.4.23	6 x 10mm In expansion joints in tiled floors etc	m					
3.1.4.24	10 x 20mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.25	10 x 20mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					

3.1.4.26	10 x 20mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.27	10 x 20mm In expansion joints in tiled walls etc	m					
3.1.4.28	10 x 20 mm In expansion joints in tiled floors etc	m					
3.1.4.29	6 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.30	6 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.4.31	6 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.32	6 x 25mm In expansion joints in tiled walls etc	m					
3.1.4.33	6 x 25mm In expansion joints in tiled floors etc	m					
3.1.4.34	10 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.35	10 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.4.36	10 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.37	10 x 25mm In expansion joints in tiled walls etc	m					
3.1.4.38	10 x 25mm In expansion joints in tiled floors etc	m					
3.1.4.39	20 x 30 mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.4.40	20 x 30 mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.4.41	20 x 30 mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.4.42	20 x 30 mm In expansion joints in tiled walls etc	m					
3.1.4.43	20 x 30 mm In expansion joints in tiled floors etc	m					
3.1.5	"Sikaflex Pro-2 HP" or equivalent polyurethane joint sealant, including backing cord, bond breaker, primer,etc						
3.1.5.1	6 x 8 mm in construction joints on floors and slabs	m					
3.1.5.2	6 x 10mm In saw cut joints in floors and slabs	m					
3.1.5.3	10 x 10mm In expansion joints on walls	m					
3.1.5.4	10 x 10mm In expansion joints on floors and slabs	m					
3.1.5.5	10 x 20 mm In vertical joints	m					
3.1.5.6	10 x 20mm In Horizontal joints	m					
3.1.5.7	6 x 25mm In vertical expansion joints	m					
3.1.5.8	10 x 25mm In horizontal expansion joints	m					
3.1.5.9	10 x 25mm In expansion joints in slabs	m					
3.1.5.10	10 x 25mm In vertical expansion joints	m					
3.1.5.11	20 x 30 mm in horizontal joints	m					
3.1.5.12	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.13	10 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.14	10 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.15	10 x 10mm In expansion joints in tiled walls etc	m					
3.1.5.16	10 x 10mm In expansion joints in tiled floors etc	m					

3.1.5.17	6 x 8mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.18	6 x 8mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.19	6 x 8mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.20	6 x 8mm In expansion joints in tiled walls etc	m					
3.1.5.21	6 x 8mm In expansion joints in tiled floors etc	m					
3.1.5.22	6 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.23	6 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.24	6 x 10mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.25	6 x 10mm In expansion joints in tiled walls etc	m					
3.1.5.26	6 x 10mm In expansion joints in tiled floors etc	m					
3.1.5.27	10 x 20mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.28	10 x 20mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.29	10 x 20mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.30	10 x 20mm In expansion joints in tiled walls etc	m					
3.1.5.31	10 x 20 mm In expansion joints in tiled floors etc	m					
3.1.5.32	6 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.33	6 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.34	6 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.35	6 x 25mm In expansion joints in tiled walls etc	m					
3.1.5.36	6 x 25mm In expansion joints in tiled floors etc	m					
3.1.5.37	10 x 25mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.38	10 x 25mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.39	10 x 25mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.40	10 x 25mm In expansion joints in tiled walls etc	m					
3.1.5.41	10 x 25mm In expansion joints in tiled floors etc	m					
3.1.5.42	20 x 30 mm In expansion joints in floors including raking out expansion joint filler as necessary	m					
3.1.5.43	20 x 30 mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m					
3.1.5.44	20 x 30 mm In expansion joints in soffits including raking out expansion joint filler as necessary	m					
3.1.5.45	20 x 30 mm In expansion joints in tiled walls etc	m					
3.1.5.46	20 x 30 mm In expansion joints in tiled floors etc	m					
3.1.6	"Penebar butyl" or equivalent rubber sealing strip, applied to the concrete joints, which expands when in contact with water						
3.1.6.1	In horizontal expansion joints in roof slabs	m					
3.1.7	"A.B.E Flexothane 27" or equivalent one-part grey polyurethane sealing compound including backing cord, bond breaker, primer, etc all laid in accordance to manufacturers specifications.						
3.1.7.1	6 x 8 mm in construction joints on floors and slabs	m					
3.1.7.2	6 x 10mm In saw cut joints in floors and slabs	m					

3.1.7.3	10 x10mm In expansion joints on walls and beams	m					
3.1.7.4	10 x 10mm In expansion joints on floors and slabs	m					
3.1.7.5	10 x 20 mm In vertical joints	m					
3.1.7.6	10 x 20mm In Horizontal joints	m					
3.1.7.7	6 x 25mm In vertical expansion joints	m					
3.1.7.8	10 x 25mm In horizontal expansion joints	m					
3.1.7.9	10 x 25mm In expansion joints in slabs	m					
3.1.7.10	10 x 25mm In vertical expansion joints	m					
3.1.7.11	20 x 30 mm in horizontal joints	m					
3.2	COUNTER FLASHINGS In accordance with manufacturers specifications.						
3.2.1	Head wall/ side wall counter flashings						
3.2.1.1	Apply one layer between 300 to 500mm girth of "Uniflash" or equivalent self adhesive membrane to clean, dry, smooth ,primed surfaces to receive and inclusive of an approved acrylic paint as protection.	m					
3.2.1.2	Apply one layer between 300 to 500mm girth of "Uniflash" or equivalent self adhesive membrane to clean, dry, smooth, primed surfaces to receive and inclusive of two coats of WPC Roofcote Acrylic or equivalent waterproofing paint as protection	m					
3.2.1.3	Apply one layer between 300 to 500mm girth of Uniflash or equivalent self adhesive membrane to clean, dry, smooth, primed surfaces to receive and inclusive of two coats of WPC Roofcote Aluminium or equivalent insulation paint as protection	m					
3.3	PARAPET WALLS						
3.3.1	Apply one layer of "Derbigum SP4" or equivalent to clean, dry, smooth bitumen primed parapet surfaces on horizontal and internal vertical Faces with an overlap onto existing waterproofing membranes to receive and inclusive of two coats of WPC Roofcote Acrylic or equivalent.	m²					
3.3.2	Apply one layer of "Derbugum SP3" or equivalent to clean, dry, smooth bitumen primed Parapet surfaces on horizontal and internal vertical Faces with an overlap onto existing waterproofing Membranes to receive and inclusive of two coats of WPC Roofcote Aluminium.	m²					
3.3.3	Apply two coats of "Hydroflex" or equivalent waterproofing system or equivalent to clean, dry. smooth parapet Surfaces with a 30gram polypropylene membrane or a fibremesh reinforcing scrim saturated between coats with no finish	m²					
3.3.4	Apply two coats of "Hydroflex" or equivalent waterproofing system or equivalent to clean, dry, smooth,parapet surfaces with a 30gram Polypropylene membrane or a fibremesh reinforcing scrim saturated between coats inclusive of the receiving of two coats of WPC Roofcote Acrylic or equivalent	m²					
3.3.5	Apply two coats of "WPC Roofcote Acrylic" or equivalent waterproofing paint to clean, dry, smooth,parapet surfaces with a 30 gram polypropylene membrane.	m²					
3.3.6	Apply two coats of "WPC Roofcote Acrylic" or equivalent waterproofing paint to clean, dry, smooth,parapet surfaces with a fibremesh reinforcing scrim saturated between coats.	m²					
3.4	WATERPROOFING TO BALCONIES, ROOFS, ETC						

3.4.1	Supply and lay dual reinforced "Derbigum SP4" bitumen or equivalent waterproofing membrane torch- fused on primed surfaces with staggered 100mm end laps. Side laps to be minimum of 75mm and substrate must be to falls and cross falls of 1:80 to outlets.						
3.4.1.1	On flat roofs including turn downs to skylights	m²					
3.4.1.2	On sloping roofs exceeding 25° pitch	m²					
3.4.1.3	On sloping roofs not exceeding 25° pitch	m²					
3.4.1.4	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.1.5	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.1.6	On top and sides of parapet walls/ kerbs	m²					
3.4.1.7	On tops and sides of inverted beams	m²					
3.4.1.8	On base of concrete gutter including turn ups n.e. 150mm high	m²					
3.4.1.9	On sides of concrete gutter	m²					
3.4.1.10	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.1.11	Additional membranes 150mm girth at internal and external angles trowelled mastic beads	m					
3.4.1.12	10 x 10 mm mastic triangular fillets	m					
3.4.1.13	30 x 30 mm mastic triangular fillets	m					
3.4.1.14	50 x 50 mm mastic triangular fillets	m					
3.4.1.15	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.1.16	Extra over for dressing to rainwater outlets	No.					
3.4.1.17	Extra over for dressing to collar around pipe	No.					
3.4.2	Supply and lay one-layer 4mm "Derbigum SP4" or equivalent torch on membrane on screeds to falls to roof slabs including turn ups, etc.						
3.4.2.1	On flat roofs including turn ups	m²					
3.4.2.2	On flat roofs including turn downs to skylights	m²					
3.4.2.3	On sloping roofs exceeding 25° pitch	m²					
3.4.2.4	On sloping roofs not exceeding 25° pitch	m²					
3.4.2.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.2.6	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.2.7	On top and sides of parapet walls/ kerbs	m²					
3.4.2.8	On tops and sides of inverted beams	m²					
3.4.2.9	On base of concrete gutter including turn ups n.e. 150mm high	m²					
3.4.2.10	On sides of concrete gutter	m²					
3.4.2.11	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.2.12	Additional membranes 150mm girth at internal and external angles	m					
3.4.2.13	10 x 10 mm mastic triangular fillets	m					
3.4.2.14	30 x 30 mm mastic triangular fillets	m					
3.4.2.15	50 x 50 mm mastic triangular fillets	m					

3.4.2.16	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	No.					
3.4.2.17	Extra over for dressing to rainwater outlets	No.					
3.4.2.18	Extra over for dressing to collar around pipe	No.					
3.4.3	Supply "Hydroflex" or equivalent slurry, cementitious waterproofing slurry, applied to either the positive or negative sides of a concrete slab.						
3.4.3.1	On flat roofs including turn ups	m²					
3.4.3.2	On flat roofs including turn downs to skylights	m²					
3.4.3.3	On sloping roofs not exceeding 25° pitch	m²					
3.4.3.4	On sloping roofs exceeding 25° pitch	m²					
3.4.3.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.3.6	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.3.7	On top and sides of parapet walls/ kerbs	m²					
3.4.3.8	On tops and sides of inverted beams	m²					
3.4.3.9	On base of concrete gutter including turn ups n.e.150mm high	m²					
3.4.3.10	On sides of concrete gutter	m²					
3.4.3.11	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.3.12	Additional membranes 150mm girth at internal and external angles	m					
3.4.3.13	10 x 10 mm mastic triangular fillets	m					
3.4.3.14	30 x 30 mm mastic triangular fillets	m					
3.4.3.15	50 x 50 mm mastic triangular fillets	m					
3.4.3.16	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.3.17	Extra over for dressing to rainwater outlets	No.					
3.4.3.18	Extra over for dressing to collar around pipe	No.					
3.4.4	Supply and lay one-layer 4mm "Derbigum SP4" or equivalent modified bituminous torch-on membrane on existing bituminous torch on membrane.						
3.4.4.1	On flat roofs including turn ups	m²					
3.4.4.2	On flat roofs including turn downs to skylights	m²					
3.4.4.3	On sloping roofs exceeding 25° pitch	m²					
3.4.4.4	On sloping roofs not exceeding 25° pitch	m²					
3.4.4.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.4.6	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.4.7	On top and sides of parapet walls/ kerbs	m²					
3.4.4.8	On tops and sides of inverted beams	m²					
3.4.4.9	On base of concrete gutter including turn ups n.e.150mm high	m²					
3.4.4.10	On sides of concrete gutter	m²					
3.4.4.11	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.4.12	Additional membranes 150mm girth at internal and external angles	m					

3.4.4.13	10 x 10 mm mastic triangular fillets	m					
3.4.4.14	30 x 30 mm mastic triangular fillets	m					
3.4.5	Supply and lay one-layer 4mm "Derbigum SP3" or equivalent modified bituminous torch-on primed bituminous screed surfaces (Bituminous primed screed measured elsewhere).						
3.4.5.1	On flat roofs including turn ups	m ²					
3.4.5.2	On flat roofs including turn downs to skylights	m ²					
3.4.5.3	On sloping roofs exceeding 25° pitch	m ²					
3.4.5.4	On sloping roofs not exceeding 25° pitch	m ²					
3.4.5.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m ²					
3.4.5.6	On sloping roofs with pitch exceeding 25 degrees in patches	m ²					
3.4.5.7	On top and sides of parapet walls/ kerbs	m ²					
3.4.5.8	On tops and sides of inverted beams	m ²					
3.4.5.9	On base of concrete gutter including turn ups n.e.150mm high	m ²					
3.4.5.10	On sides of concrete gutter	m ²					
3.4.5.11	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.5.12	Additional membranes 150mm girth at internal and external angles	m					
3.4.5.13	10 x 10 mm mastic triangular fillets	m					
3.4.5.14	30 x 30 mm mastic triangular fillets	m					
3.4.6	Extra over to item 3.4.4 and 3.4.5						
3.4.6.1	"Kraftex" or equivalent grade 22 paper under layer with 30mm laps on flat roofs.						
3.4.6.1.1	On sloping roofs	m ²					
3.4.6.1.2	On bottoms and sides of box gutters	m ²					
3.4.6.1.3	30 x 30mm Triangular fillet	m					
3.4.6.1.4	50 x 50 mm mastic triangular fillets	m					
3.4.6.1.5	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.6.1.6	Extra over for dressing to rainwater outlets	No.					
3.4.6.1.7	Extra over for dressing to collar around pipe	No.					
3.4.7	Supply and lay one layer "Derbigum SP4" or equivalent waterproofing membrane, With 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by'torchfusion' finished with and inclusive of two coats suitable bituminous aluminium paint finish.						
3.4.7.1	On flat roofs including turn ups	m ²					
3.4.7.2	On flat roofs including turn downs to skylights	m ²					
3.4.7.3	On sloping roofs exceeding 25° pitch	m ²					
3.4.7.4	On sloping roofs not exceeding 25° pitch	m ²					
3.4.7.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m ²					
3.4.7.6	On sloping roofs with pitch exceeding 25 degrees in patches	m ²					
3.4.7.7	On top and sides of parapet walls/ kerbs	m ²					

3.4.7.8	On tops and sides of inverted beams	m²					
3.4.7.9	On base and sides of concrete gutter	m²					
3.4.7.10	Derbigum or equivalent SP4 in counter capping at abutments 150mm girth	m²					
3.4.7.11	On base and sides of timber box gutters	m²					
3.4.7.12	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.7.13	Additional membranes 150mm girth at internal and external angles	m					
3.4.7.14	10 x 10 mm mastic triangular fillets	m					
3.4.7.15	30 x 30 mm mastic triangular fillets	m					
3.4.7.16	50 x 50 mm mastic triangular fillets	m					
3.4.7.17	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.7.18	Extra over for dressing to rainwater outlets	No.					
3.4.7.19	Extra over for dressing to collar around pipe	No.					
3.4.8	Supply and lay double layer 4mm "Derbigum SP4" or equivalent waterproofing membrane with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by 'torch fusion'.						
3.4.8.1	On flat roofs including turn ups	m²					
3.4.8.2	On flat roofs including turn downs to skylights	m²					
3.4.8.3	On sloping roofs exceeding 14° pitch	m²					
3.4.8.4	On sloping roofs exceeding 25° pitch	m²					
3.4.8.5	On sloping roofs not exceeding 25° pitch	m²					
3.4.8.6	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.8.7	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.8.8	On top and sides of parapet walls/ kerbs	m²					
3.4.8.9	On tops and sides of inverted beams	m²					
3.4.8.10	On base and sides of concrete gutter	m²					
3.4.9	Extra over to item 3.4.8						
3.4.9.1	Supply and lay One-layer Derbigum Interdek or equivalent with 50mm side and end laps laid loose on waterproofing as isolation/protection layer.	m²					
3.4.9.2	10 x 10mm triangular fillet	m					
3.4.9.3	30 x 30mm triangular fillet	m					
3.4.9.4	50 x 50mm triangular fillet	m					
3.4.10	4mm "Derbigum SP4" or equivalent in counter capping at abutments 150mm girth.						
3.4.10.1	On base and sides of timber box gutters	m²					
3.4.10.2	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.10.3	Additional membranes 150mm girth at internal and external angles	m					
3.4.10.4	10 x 10 mm mastic triangular fillets	m					
3.4.10.5	30 x 30 mm mastic triangular fillets	m					
3.4.10.6	50 x 50 mm mastic triangular fillets	m					

3.4.10.7	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.10.8	Extra over for dressing to rainwater outlets	No.					
3.4.10.9	Extra over for dressing to collar around pipe	No.					
3.4.11	Supply and lay one layer "Derbigum SP4" or equivalent waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by 'torchfusion' finished with and inclusive of two coats of WPC Roofcote Aluminium or equivalent.						
3.4.11.1	On flat roofs including turn ups	m²					
3.4.11.2	On flat roofs including turn downs to skylights	m²					
3.4.11.3	On sloping roofs exceeding 25° pitch	m²					
3.4.11.4	On sloping roofs not exceeding 25° pitch	m²					
3.4.11.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.11.6	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.11.7	On top and sides of parapet walls/ kerbs	m²					
3.4.11.8	On tops and sides of inverted beams	m²					
3.4.11.9	On base and sides of concrete gutter	m²					
3.4.11.10	In counter capping at abutments 150mm girth	m²					
3.4.11.11	On base and sides of timber box gutters	m²					
3.4.11.12	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.11.13	Additional membranes 150mm girth at internal and external angles	m					
3.4.11.14	10 x 10 mm mastic triangular fillets	m					
3.4.11.15	30 x 30 mm mastic triangular fillets	m					
3.4.11.16	50 x 50 mm mastic triangular fillets	m					
3.4.11.17	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.11.18	Extra over for dressing to rainwater outlets	No.					
3.4.11.19	Extra over for dressing to collar around pipe	No.					
3.4.13	Supply and lay one-layer "Derbigum SP4" or equivalent waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by 'torch fusion' with no finish.						
3.4.13.1	On flat roofs including turn ups	m²					
3.4.13.2	On flat roofs including turn downs to skylights	m²					
3.4.13.3	On sloping roofs exceeding 25° pitch	m²					
3.4.13.4	On sloping roofs not exceeding 25° pitch	m²					
3.4.13.5	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.13.6	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.13.7	On top and sides of parapet walls/ kerbs	m²					
3.4.13.8	On tops and sides of inverted beams	m²					
3.4.13.9	On base and sides of concrete gutter	m²					

3.4.13.10	In counter capping at abutments 150mm girth	m²					
3.4.13.11	On base and sides of timber box gutters	m²					
3.4.13.12	Sealing edges to brickwork or concrete including trowelled mastic beads	m					
3.4.13.13	Additional membranes 150mm girth at internal and external angles	m					
3.4.13.14	10 x 10 mm mastic triangular fillets	m					
3.4.13.15	30 x 30 mm mastic triangular fillets	m					
3.4.13.16	50 x 50 mm mastic triangular fillets	m					
3.4.13.17	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.13.18	Extra over for dressing to rainwater outlets	No.					
3.4.13.19	Extra over for dressing to collar around pipe	No.					
3.4.14	Supply and lay one-layer "Derbigum SP4" or equivalent waterproofing membrane roofing on existing Bituminous torch on layer with 100mm side and 150mm end laps.						
3.4.14.1	On screeded roofs	m²					
3.4.14.2	On tops and sides of inverted beams	m²					
3.4.14.3	On sloping ramps	m²					
3.4.14.4	On base of concrete gutters including turn ups	m²					
3.4.14.5	On sides of concrete gutter	m²					
3.4.14.6	Fibre reinforced flashing strip Hydroflex or equivalent at turn ups	m					
3.4.14.7	Dress 4mm Derbigum SP4 or equivalent to rainwater outlets.	No.					
3.4.14.8	Dress 4mm Derbigum SP4 or equivalent collar around pipe.	No.					
3.4.15	Extra Over to item 3.4.14						
3.4.15.1	One-layer Derbigum Interdek or equivalent with 50mm side and end laps laid loose on waterproofing as isolation/protection layer to receive brick paving.	m²					
3.4.15.2	10 x 10mm triangular fillet	m					
3.4.15.3	30 x 30mm triangular fillet	m					
3.4.15.4	50 x 50mm triangular fillet	m					
3.4.16	Supply and lay one-layer "Derbigum CG3" or equivalent waterproofing membrane roofing on screed or concrete surfaces. one-layer Derbigum CG3 or equivalent waterproofing membrane by means of torch fusion with 100mm side and 150mm end laps.						
3.4.16.1	On screeded roofs	m²					
3.4.16.2	On tops and sides of inverted beams	m²					
3.4.16.3	On sloping ramps	m²					
3.4.16.4	On base of concrete gutters including turn ups	m²					
3.4.16.5	On sides of concrete gutter	m²					
3.4.16.6	Fibre reinforced flashing strip Hydroflex or equivalent at turn ups	m					
3.4.16.7	Dress 4mm Derbigum SP4 or equivalent to rainwater outlets.	No.					
3.4.16.8	Dress 4mm Derbigum SP4 or equivalent collar around pipe.	No.					

3.4.17	Extra Over to item 3.4.14						
3.4.17.1	One-layer Derbigum Interdek or equivalent with 50mm side and end laps laid loose on waterproofing as isolation/protection layer to receive brick paving.	m ²					
3.4.17.2	10 x 10mm triangular fillet	m					
3.4.17.3	30 x 30mm triangular fillet	m					
3.4.17.4	50 x 50mm triangular fillet	m					
3.4.18	Supply and lay one-layer "Derbigum SP5" or equivalent waterproofing membrane sealed by means of 'torch-fusion' with 100mm side and 150mm end laps. Application to be installed by accredited applicator offering minimum 10-year guarantee						
3.4.18.1	On screeded roofs	m ²					
3.4.18.2	On tops and sides of inverted beams	m ²					
3.4.18.3	On sloping ramps	m ²					
3.4.18.4	On base of concrete gutters including turn ups	m ²					
3.4.18.5	On sides of concrete gutter	m ²					
3.4.18.6	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m ²					
3.4.18.7	Extra over for dressing to rainwater outlets	No.					
3.4.18.8	Extra over for dressing to collar around pipe	No.					
3.4.18.9	One-layer Derbigum interdek or equivalent with 50mm side and end laps laid loose on waterproofing as isolation layer to receive premix asphalt	m ²					
3.4.19	One-layer Bidim U14 geofabric with 50mm side and end laps spot bonded with anionic emulsion on waterproofing as isolation layer						
3.4.19.1	10 x 10mm triangular fillet	m					
3.4.19.2	30 x 30mm triangular fillet	m					
3.4.19.3	50 x 50mm triangular fillet	m					
3.4.19.4	On low slope timber roofs	m ²					
3.4.19.5	On sloping roofs(not exceeding 25 degrees pitch)	m ²					
3.4.19.6	On sloping roofs(exceeding 25 degrees pitch)	m ²					
3.4.19.7	On sloping roofs with pitch not exceeding 25 degrees in patches	m ²					
3.4.19.8	On sloping roofs with pitch exceeding 25 degrees in patches	m ²					
3.4.19.9	On base and sides of timber box gutters	m ²					
3.4.19.10	On base and sides of screeded concrete gutter	m ²					
3.4.19.11	On top and sides of Parapet walls	m ²					
3.4.19.12	In counter capping at abutments 150mm girth	m ²					
3.4.19.13	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.19.14	Extra over for dressing to rainwater outlets	No.					
3.4.19.15	Extra over for dressing to collar around pipe	No.					

3.4.20	Supply and lay " Interdek " or equivalent underlay mechanically fastened with selected clout nails and 38mm dia roofing washers at 13/ m² (300mm centres) followed by one-layer Derbigum SP4 or equivalent with 75mm side Laps and 100mm end laps, sealed to underlay by 'torch fusion'.						
3.4.20.1	On low slope timber roofs	m²					
3.4.20.2	On sloping roofs(not exceeding 25 degrees pitch)	m²					
3.4.20.3	On sloping roofs(exceeding 25 degrees pitch)	m²					
3.4.20.4	On sloping roofs with pitch not exceeding 25 degrees in patches	m²					
3.4.20.5	On sloping roofs with pitch exceeding 25 degrees in patches	m²					
3.4.20.6	On base and sides of timber box gutters	m²					
3.4.20.7	On base and sides of screeded concrete gutter	m²					
3.4.20.8	On top and sides of Parapet walls	m²					
3.4.20.9	In counter capping at abutments 150mm girth	m²					
3.4.20.10	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.4.20.11	Extra over for dressing to rainwater outlets	No.					
3.4.20.12	Extra over for dressing to collar around pipe	No.					
3.5	WATERPROOFING TO ROOF GARDENS AND PLANTER BOXES						
3.5.1	Supply and lay one-layer "Derbigum CG4H" or equivalent on and including one-layer "Derbigum CG3" or equivalent waterproofing membrane by means of torch-on-fusion laid staggered with side laps of 100mm and end laps of 150mm, sealed to bitumen primed surfaces by "torch-fusion".						
3.5.1.1	On concrete floors and slabs.	m²					
3.5.1.2	On tops and sides of inverted beams	m²					
3.5.1.3	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.5.1.4	Extra over for dressing to rainwater outlets	No.					
3.5.1.5	Extra over for dressing to collar around pipe	No.					
3.5.1.6	On roof gardens including turn ups	m²					
3.5.1.7	On bottoms of planter boxes including turn ups	m²					
3.5.2	Supply and install Delta - Floraxx Top or equivalent polyethylene drainage system						
3.5.2.1	On floors and slabs (Horizontal surfaces)	m²					
3.5.3	Supply and install Delta - MS8 or equivalent polyethylene drainage system						
3.5.3.1	On Walls (Vertical surfaces)	m²					
3.6	TRAFFICABLE / WALK WAY AREAS						
3.6.1	One layer "Derbigum CG3" or equivalent waterproofing membrane, laid staggered and to falls and cross falls with side laps of 75 mm and end laps of 100mm, fully sealed to bitumen primed screeded surface by "torch-fusion"(bitumen primed screeded surface measured elsewhere), followed by one layer "Tilesafe Econo" or equivalent self-adhesive bitumen membrane with 50 mm laps. ("Tilesafe Econo" or equivalent measured elsewhere)						
3.6.1.1	On low slope concrete/screed surfaces	m²					

3.6.1.2	Extra over in dressing to thresholds	m²					
3.6.1.3	On side and top of parapet kerbs	m²					
3.6.1.4	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.6.1.5	Extra over for dressing to rainwater outlets	No.					
3.6.1.6	Extra over for dressing to collar around pipe	No.					
3.6.2	Extra over for item 3.6.1						
3.6.2.1	One-layer Derbigum Interdek or equivalent with 50mm side and end laps laid loose on waterproofing as isolation/protection layer to receive tiles/paving	m²					
3.6.2.2	One layer "Tilesafe Econo" or equivalent self-adhesive bitumen membrane with 50 mm laps,	m²					
3.6.3	Supply and lay one-layer 4mm Derbigum SP4 or equivalent torch-on membrane on one-layer 3mm Derbigum CG3 torch-on membrane or equivalent.						
3.6.3.1	On low slope concrete/screed surfaces	m²					
3.6.3.2	Extra over in dressing to thresholds	m²					
3.6.3.3	On side and top of parapet kerbs	m²					
3.6.3.4	Extra over for Fibre reinforced flashing strip Hydroflex or equivalent 100mm girth at turn ups	m					
3.6.3.5	Extra over for dressing to rainwater outlets	No.					
3.6.3.6	Extra over for dressing to collar around pipe	No.					
3.6.3.7	One-layer Derbigum Interdek or equivalent with 50mm side and end laps laid loose on waterproofing as isolation/protection layer to receive tiles/paving	m²					
3.6.3.8	One layer "Derbigum CG3" or equivalent self-adhesive bitumen membrane with 50 mm laps,	m²					
3.7	FLASHINGS						
3.7.1	'Uni Flash' or equivalent aluminium composite flashings with butyl self- adhesive flashings, including aluminium cover strips, etc.						
3.7.1.1	Flashing strips 150mm girth at turn ups, including sealing top edges into grooves with mastic	m					
3.7.1.2	Flashing strips 278mm girth at turn ups, including sealing top edges into grooves with mastic	m					
3.7.2	One layer "Uni Flash" or equivalent self-adhesive polyester bandage flashings						
3.7.2.1	On tops and sides of concrete up stands	m²					
3.8	PROTECTION						
3.8.1	PROTECTIVE STONE DRESSING						
3.8.1.1	50mm thick layer grey crushed stone ballast (Stone n.e 25mm dia)						
3.8.1.1.1	50mm thick on waterproofing to flat roofs	m²					
3.8.1.2	25mm Quartz stone dressing evenly spread with larger stones around outlets or equivalent						
3.8.1.2.1	50mm thick on waterproofing to flat roofs	m²					
3.8.1.3	19mm Grey Stone chips						
3.8.1.3.1	50mm thick on waterproofing to flat roofs	m²					
3.8.1.4	25mm Crushed stone dressing evenly spread over waterproofing with larger stones around outlets or equivalent						
3.8.1.4.1	50mm thick on waterproofing to flat roofs	m²					
3.8.2	PROTECTIVE PAVING						

3.8.2.1	305 x 305 x 9.5mm "Everite Roof Decking" or equivalent fibre-cement tile paving with 2mm wide continuous joints in both directions bedded and jointed in hot bitumen including prime coat to backs of tile						
3.8.2.1.1	On waterproofing to flat roofs	m²					
3.8.2.1.2	On waterproofing turn ups not exceeding 300mm high	m					
3.8.2.2	500 x 500mm x 50mm thick non slip checker tile paving with continuous joints including prime coat to backs of tiles						
3.8.2.2.1	On waterproofing to flat roofs	m²					
3.8.2.2.2	On waterproofing turn ups not exceeding 300mm high	m					
3.8.2.3	600 x 600mm x 50mm thick non slip checker tile paving with continuous joints including prime coat to backs of tiles						
3.8.2.3.1	On waterproofing to flat roofs	m²					
3.8.2.3.2	On waterproofing turn ups not exceeding 300mm	m					
4	BILL NO. 4						
	ROOF COVERINGS, CLADDINGS ETC.						
	(CPAP WORK GROUP 122/124/125/ UNLESS OTHERWISE STATED) PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						
	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - work both inside and outside of existing buildings - carting all materials to work area to maximum 4 storeys high, whether internal or external - cleaning up of work area upon completion - protecting of existing premises - work in small quantities. The supplementary preambles reflected elsewhere in these Bills of Quantities apply equally to this trade. All work dealing with fibre/asbestos cement is to be executed in strict accordance with the safety instruction as per the Occupational Health and Safety Act including OHASA Construction Regulations 2003: Government Notice No. R1010 Cleaning Asbestos. All cutting or drilling of fibre cement products to be done in an isolated area. Existing sheets and rainwater goods, eaves and verges must be comprehensively protected against damage. No walking directly on the roof sheets will be allowed and rates for all work are to include for protective timber board gangways or similar approved. Roof tiling to be fitted in accordance with SABS 062 and to comply with local regulations and the manufacturer's recommendations, applicable to the locality and roof pitch, with all perimeter tiles mechanically fixed.						
	Roof tiling to be manufactured in accordance with SABS 542 code of practice of approved colour, including matching fittings and accessories. Specifications, drawings, etc. Where there is conflict between the Model Preambles and the Specifications, the Specifications will take preference.						

	<p>Demolitions and work on site: All demolitions and works on site must be carried out carefully and in the safest possible manner and the Contractor is to make a thorough examination and take all necessary precautions before proceeding with the work. The utmost care is to be observed to avoid any structural or other damage in the remaining portions of the existing building. The Contractor must visit the site and the buildings and acquaint himself fully with conditions and scope of alterations, demolitions and redecorations. Descriptions herein are brief and are to serve as a means of identifying work only. The full extent of work is to be assessed by the contractor on site. Special care is to be exercised not to interfere with any electrical installation, and notice is to be given to the Representative/Agent when any disconnections, removal of wire, etc., are necessary and the Contractor is to afford every facility to the workmen carrying out his work. The Contractor shall not remove or interfere with any furniture, fittings or similar articles unless specially mentioned in the following items and shall give adequate notice to the Representative/Agent if the removal of any such articles from parts of the buildings are to be altered becomes necessary so that the Employer may have same removed before the Contractor commences work in such parts.</p>						
	<p>Fibre Cement: The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures and must make good at his own expense any damage that may occur. Erect a safety net to stop spillage from falling onto the ground when cleaning the roof sheets. All residue from cleaning the roofs to be collected in drums/skids and be disposed of as builders rubble. Fix an impact resistant transparent hood over high pressure spray. All cutting or drilling of fibre cement products to be done in an isolated area. Damage and repairs to services: Should the Contractor damage any services which are to remain in operation or any services which have not yet been disconnected prior to removal, then the Contractor will be held solely responsible for such damage and any further resultant damage.</p>						
	<p>Metal roof sheeting Contractor to provide a 20 year guarantee for both the material and the paintwork of the sheeting. Please note that the sheeting supplier / installer through the contractor should timeously (before installation) inform the Principal Agent of any aspect of the installation or the environment in which the sheeting is used or the application that could have a negative affect the warranties (e.g. Bending the sheets, the fixings, etc). Straight cutting Descriptions of all roof coverings are deemed to include for all straight cutting.</p>						

	<p>PREAMBLES FOR TILED ROOFS</p> <p>Main Tiling: Roof tiling with pitches 17.5° to 25° shall be fixed to battens with a minimum headlap of 100mm width with undertile membrane mandatory. From 26° to 45° with a minimum headlap of 75mm with undertile membrane mandatory. Mechanical fixing of tiles and fittings shall be done strictly in accordance with SANS 10062 2004 and the manufacturers recommendations for the locality and the roof pitch. Erection: Every precaution shall be taken to prevent damage to tiles during all stages of construction. Tiles which have become damaged in anyway, shall be replaced. Undertile Membrane: Prior to battening an undertile membrane shall be laid horizontally over the rafters with minimum overlaps of 150mm and secured with large clout nails to rafters. The membrane must be taught at eaves to allow drainage of residual water. Structural Timber: Battens and all structural timber shall be graded SA Pine complying with SANS 1783 -2, 1783 -4 and 10149. The minimum batten sizes are: 38 x 38mm for rafter centres up to 760mm 38 x 50mm fixed flat for rafter centres from 760mm to 900mm 38 x 50mm fixed on edge for rafter centres from 900mm to 1000mm. Battens shall be of sufficient length to be supported at each end and intermediately by at least three rafters, trusses or walls. At the ridge the top tiling batten shall be placed at a distance not exceeding 25mm from the rafter apex to ensure sufficient overlap of the ridge tiles over the top course of tiling.</p>						
	<p>The first tiling batten at the eaves shall be positioned at a distance which allows sufficient overhang of the eaves course of tiles over the tilting batten or fascia board in order to ensure that water will discharge in the centre of the gutter.</p>						
	<p>Concrete roof tiles: Nominal size 420 x 332mm shall comply with SANS 542 standard specification for the manufacture of concrete roof tiles. In addition all tiles shall have weather bars on the underside forming an effective barrier against wind driven rain. The tile colour to be confirmed by the client. Tiling: All tiling shall comply with SANS 10062 Code of Practice for fixing to concrete roof tiles and with manufacturer's recommendations applicable to locality, the roof pitch and for special precautions where required. Tiles shall be laid in straight bond with vertical joints forming a straight line on the roof slope. All tiling shall be fixed with non-corrodible nails or clips. Nails shall penetrate the battens to a minimum depth of 25mm.</p>						

	<p>PREAMBLES FOR ROOF SHEETING INSPECTION PRIOR TO INSTALLATION OR ERECTION Before commencing installation, the contractor shall verify that the following items have been checked and accepted:</p> <ul style="list-style-type: none"> a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled, and grouted. b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances. c. The corners of the roof are square, and the wall framework is perpendicular or as specified. d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework. e. All members to which roofing, and cladding are to be fixed in aesthetically sensitive areas are true and square. f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided. g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding. 						
	<p>HANDLING AND STORAGE The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled, and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.</p>						
	<p>SAFETY The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.</p>						
	<p>INSTALLATION Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces to prevent steel particles from penetrating coated surfaces.</p>						
	<p>PROTRUSION THROUGH SHEETED SURFACES Protrusions such as pipes, ducts, and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting, and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.</p>						
	<p>CLEANING OF ROOF, ETC. All debris, swarf, etc. arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners, sealants, mandrels from pop rivets, off-cuts of sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc. shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks, or partially impedes the flow of water into the outlets, down pipes, etc.</p>						

4.1	SLATES, TILES AND SHINGLES (Battens measured elsewhere unless specified)						
4.1.1	Concrete Roof Tiles including accessories						
4.1.1.1	420 x 332mm concrete "Coverland Double Roman" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.1.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.1.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.1.5	Side cladding to gables etc	m²					
4.1.1.1.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.1.7	Circular cutting	m²					
4.1.1.1.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.1.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.1.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.1.1.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.1.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.1.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.1.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.1.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.1.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.1.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.2	420 x 332mm concrete "Coverland - Taunus" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.2.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.2.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.2.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.2.5	Side cladding to gables etc	m²					
4.1.1.2.6	Roof covering and side cladding to dormers, turrets, etc	m²					

4.1.1.2.7	Circular cutting	m ²					
4.1.1.2.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.2.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.2.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.2.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.2.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.2.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.2.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.2.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.2.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.2.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.3	420 x 332mm concrete "Coverland - Renown" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.3.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.1.3.2	Roof covering with pitch not exceeding 25 degrees	m ²					
4.1.1.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.1.3.4	Roof covering with pitches exceeding 25 degrees in patches	m ²					
4.1.1.3.5	Side cladding to gables etc	m ²					
4.1.1.3.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.1.3.7	Circular cutting	m ²					
4.1.1.3.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.3.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.3.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.3.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.3.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.3.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.3.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.3.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.3.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.3.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.1.4	420 x 332mm concrete "Coverland - Elite" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.4.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.4.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.4.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.4.5	Side cladding to gables etc	m²					
4.1.1.4.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.4.7	Circular cutting	m²					
4.1.1.4.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.4.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.4.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.1.4.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.4.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.4.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.4.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.4.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.4.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.4.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.5	420 x 332mm concrete "Coverland - Cupula" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.5.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.5.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.5.5	Side cladding to gables etc	m²					
4.1.1.5.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.5.7	Circular cutting	m²					

4.1.1.5.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.5.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.5.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.5.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.5.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.5.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.5.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.5.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.5.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.5.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.6	420 x 332mm concrete "Coverland - Perspective" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.6.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.1.6.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.1.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.1.6.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.1.6.5	Side cladding to gables etc	m ²					
4.1.1.6.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.1.6.7	Circular cutting	m ²					
4.1.1.6.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.6.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.6.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.6.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.6.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.6.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.6.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.6.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.6.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.6.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.1.7	420 x 332mm concrete "Monier Marley Double Roman" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.7.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.7.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.7.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.7.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.7.5	Side cladding to gables etc	m²					
4.1.1.7.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.7.7	Circular cutting	m²					
4.1.1.7.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.7.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.7.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.1.7.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.7.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.7.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.7.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.7.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.7.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.7.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.8	420 x 332mm concrete "Monier Marley Double Roman Plus" or equivalent tiles with all colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.8.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.8.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.8.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.8.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.8.5	Side cladding to gables etc	m²					
4.1.1.8.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.8.7	Circular cutting	m²					

4.1.1.8.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.8.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.8.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.8.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.8.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.8.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.8.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.8.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.8.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.8.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.9	420 x 332mm concrete "Monier Marley -Ludlow" or equivalent tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.9.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.1.9.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.1.9.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.1.9.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.1.9.5	Side cladding to gables etc	m ²					
4.1.1.9.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.1.9.7	Circular cutting	m ²					
4.1.1.9.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.9.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.9.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.9.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.9.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.9.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.9.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.9.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.9.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.9.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.1.10	420mm x 332mm "Monier Marley - Mendip" or equivalent roofing tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.10.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.10.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.10.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.10.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.10.5	Side cladding to gables etc	m²					
4.1.1.10.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.10.7	Circular cutting	m²					
4.1.1.10.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.10.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.10.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.1.10.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.10.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.10.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.10.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.10.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.10.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.10.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.11	420mm x 332mm "Monier Marley Homestead" or equivalent roofing tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.11.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.11.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.11.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.11.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.11.5	Side cladding to gables etc	m²					
4.1.1.11.6	Roof covering and side cladding to dormers, turrets, etc	m²					

4.1.1.11.7	Circular cutting	m ²					
4.1.1.11.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.11.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.11.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.11.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.11.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.11.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.11.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.11.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.11.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.11.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.1.12	420mm x 332mm "Monier Marley - Modern" or equivalent roofing tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.12.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.1.12.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.1.12.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.1.12.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.1.12.5	Side cladding to gables etc	m ²					
4.1.1.12.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.1.12.7	Circular cutting	m ²					
4.1.1.12.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.12.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.1.12.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.1.12.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.12.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.12.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.12.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.12.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.12.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.12.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.1.13	420mm x 330mm roofing tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.1.13.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.1.13.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.1.13.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.1.13.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.1.13.5	Side cladding to gables etc	m²					
4.1.1.13.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.1.13.7	Circular cutting	m²					
4.1.1.13.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.13.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.1.13.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.1.13.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.1.13.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.13.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.1.13.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.1.13.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.1.13.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.1.13.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.2	Clay Roof Tiles						
4.1.2.1	415 x 255mm "Cotto Coperate" or equivalent clay roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.2.1.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.2.1.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.2.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.2.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.2.1.5	Side cladding to gables etc	m²					
4.1.2.1.6	Roof covering and side cladding to dormers, turrets, etc	m²					

4.1.2.1.7	Circular cutting	m ²					
4.1.2.1.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.2.1.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.2.1.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.2.1.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.2.1.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.2.1.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.2.1.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.2.1.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.2.1.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.2.1.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.2.2	435 x 256mm "Marseille" or equivalent clay roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.2.2.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.2.2.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.2.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.2.2.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.2.2.5	Side cladding to gables etc	m ²					
4.1.2.2.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.2.2.7	Circular cutting	m ²					
4.1.2.2.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.2.2.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.2.2.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.2.2.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.2.2.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.2.2.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.2.2.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.2.2.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.2.2.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.2.2.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.2.3	478 x 310mm "Occitane" or equivalent clay roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.2.3.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.2.3.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.2.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.2.3.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.2.3.5	Side cladding to gables etc	m²					
4.1.2.3.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.2.3.7	Circular cutting	m²					
4.1.2.3.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.2.3.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.2.3.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.2.3.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.2.3.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.2.3.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.2.3.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.2.3.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.2.3.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.2.3.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.2.4	Clay Roof Tiles Fittings						
4.1.2.4.1	40.5mm - 28cm Hip/Ridge Tile	m					
4.1.2.4.2	40mm - 28cm Hip Starter/End	m					
4.1.2.4.3	44mm - 47.5cm Two Way Ridge/Junction	m					
4.1.2.4.4	44mm - 47.5cm Three Way Ridge/Junction	m					
4.1.2.4.5	40.5mm - 40.5cm Four Way Ridge	m					
4.1.2.5	Roof Tile Underlays						
4.1.2.5.1	350 micron x 1.5m White UT woven or equivalent	m²					
4.1.2.5.2	350 micron x 1m White UT woven or equivalent	m²					
4.1.2.5.3	350 micron x 1.5m White UT woven	m²					

4.1.2.6	Allow the PC Sum of R750/m ² for supply and delivery of 478 x 310mm clay roof tiles (Not listed above) nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and 38 x 38mm or 38 x 50mm sawn softwood battens (measured elsewhere) at between 300mm to 400mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m ² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.2.6.1	Complete supply and installation of clay roof tiles above on roofs not exceeding 25 degrees	m ²					
4.1.2.6.2	Complete supply and installation of clay roof tiles above on roofs exceeding 25 degrees	m ²					
4.1.2.6.3	Complete supply and installation of clay roof tiles above on roofs not exceeding 25 degrees (in patches)	m ²					
4.1.2.6.4	Complete supply and installation of clay roof tiles above on roofs exceeding 25 degrees (in patches)	m ²					
4.1.3	NUTEC FIBRE CEMENT AND NATURAL ROOF SLATES						
4.1.3.1	610 x 406mm "Nutek Fibre Cement and Natural Roof Slates" slates laid in double thickness with a head lap of 75mm and nailed along centre with galvanised steel clout nails to and including 50 x 38mm or 38 x 38mm sawn softwood battens at 250mm to 600mm centres						
4.1.3.1.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.1.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.1.3	Roof covering with pitches not exceeding 25 degrees, circular across the fall to specified radius	m ²					
4.1.3.1.4	Roof covering with pitches exceeding 25 degrees circular along the fall to specified radius	m ²					
4.1.3.1.5	Roof covering to conical shape with a pitch not exceeding 25 degrees and a radius varying from ?m to ?m, including cutting slates to wedge shape	m ²					
4.1.3.1.6	Roof covering to conical shape with a pitch exceeding 25 degrees and a radius varying from ?m to ?m, including cutting slates to wedge shape	m ²					
4.1.3.1.7	Side cladding to gables etc	m ²					
4.1.3.1.8	Side cladding to gables etc circular on plan to specified radius	m ²					
4.1.3.1.9	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.1.10	Circular cutting	m					
4.1.3.1.11	Extra on roof covering for double course at eaves including fixing clips and 38 x 50mm sawn softwood tilting fillet	m					
4.1.3.2	"Textrata" or equivalent Slate Tiles all colours						
4.1.3.2.1	Supply and fit 610 x 406mm "Textrata" or equivalent slates laid in double thickness with a head lap of 75mm and nailed along centre with galvanised steel clout nails to and including 38 x 58mm or 38x 38mm sawn softwood battens at 250mm to 600mm centres						
4.1.3.2.1.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.2.1.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.2.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.2.1.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.2.1.5	Side cladding to gables etc	m ²					
4.1.3.2.1.6	Roof covering and side cladding to dormers, turrets, etc	m ²					

4.1.3.2.1.7	Circular cutting	m ²					
4.1.3.2.1.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.2.1.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.2.1.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.2.1.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.2.1.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.2.1.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.2.1.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.2.1.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.2.1.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.2.1.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.2.2	Supply and fit 255 x 255mm "Textrata" or equivalent slates laid in double thickness with a head lap of 75mm and nailed along centre with galvanised steel clout nails to and including 38 x 58mm or 38x 38mm sawn softwood battens at 250mm to 600mm centres						
4.1.3.2.2.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.2.2.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.2.2.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.2.2.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.2.2.5	Side cladding to gables etc	m ²					
4.1.3.2.2.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.2.2.7	Circular cutting	m ²					
4.1.3.2.2.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.2.2.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.2.2.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.2.2.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.2.2.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.2.2.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.2.2.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.2.2.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.2.2.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.2.2.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3	Natural Slate Roof Tiles						

4.1.3.3.1	280 x 175mm Natural Slate Roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m ² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.1.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.1.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.1.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.1.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.1.5	Side cladding to gables etc	m ²					
4.1.3.3.1.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.1.7	Circular cutting	m ²					
4.1.3.3.1.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.1.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.1.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.1.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.1.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.1.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.1.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.1.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.1.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.1.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3.2	280 x 205mm Natural Slate Roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m ² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.2.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.2.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.2.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.2.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.2.5	Side cladding to gables etc	m ²					
4.1.3.3.2.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.2.7	Circular cutting	m ²					

4.1.3.3.2.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.2.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.2.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.2.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.2.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.2.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.2.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.2.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.2.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.2.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3.3	280 x 225mm Natural Slate Roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.3.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.3.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.3.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.3.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.3.5	Side cladding to gables etc	m ²					
4.1.3.3.3.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.3.7	Circular cutting	m ²					
4.1.3.3.3.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.3.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.3.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.3.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.3.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.3.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.3.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.3.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.3.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.3.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.3.3.4	280 x 305mm Natural Slate Roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m ² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.4.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.4.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.4.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.4.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.4.5	Side cladding to gables etc	m ²					
4.1.3.3.4.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.4.7	Circular cutting	m ²					
4.1.3.3.4.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.4.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.4.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.4.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.4.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.4.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.4.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.4.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.4.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.4.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3.5	280 x 355mm Natural Slate Roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m ² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.5.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.5.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.5.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.5.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.5.5	Side cladding to gables etc	m ²					
4.1.3.3.5.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.5.7	Circular cutting	m ²					

4.1.3.3.5.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.5.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.5.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.5.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.5.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.5.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.5.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.5.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.5.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.5.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3.6	280 x 405mm Natural Slate Roof tiles with all profiles and colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.6.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.6.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.6.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.6.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.6.5	Side cladding to gables etc	m ²					
4.1.3.3.6.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.6.7	Circular cutting	m ²					
4.1.3.3.6.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.6.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.6.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.6.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.6.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.6.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.6.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.6.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.6.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.6.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.3.3.8	610x 406mm Textured Unmitred Roof Slates with all profiles and or equivalent colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.8.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.3.3.8.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.3.3.8.3	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.3.3.8.4	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.3.3.8.5	Side cladding to gables etc	m²					
4.1.3.3.8.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.3.3.8.7	Circular cutting	m²					
4.1.3.3.8.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.3.3.8.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.3.3.8.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.3.3.8.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.8.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.8.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.8.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.8.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.8.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.8.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3.9	305 x 205mm Natural Slate Roof Tiles with all profiles and or equivalent colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.9.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.3.3.9.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.3.3.9.3	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.3.3.9.4	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.3.3.9.5	Side cladding to gables etc	m²					
4.1.3.3.9.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.3.3.9.7	Circular cutting	m²					
4.1.3.3.9.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					

4.1.3.3.9.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.9.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.9.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.9.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.9.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.9.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.9.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.9.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.9.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.3.10	305 x 225mm Natural Slate Roof Tiles with all profiles and or equivalent colours nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 38mm or 38 x 50mm sawn softwood battens at between 200mm to 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218g/m² and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm						
4.1.3.3.10.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.3.10.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.3.10.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.3.10.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.3.10.5	Side cladding to gables etc	m ²					
4.1.3.3.10.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.3.10.7	Circular cutting	m ²					
4.1.3.3.10.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.10.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.3.10.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.3.10.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.3.10.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.10.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.3.10.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.3.10.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.3.10.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.3.10.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.4	NUTEC FIBRE CEMENT SLATES						

4.1.3.4.1	305 x 255mm "Nutek Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.1.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.3.4.1.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.3.4.1.3	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.3.4.1.4	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.3.4.1.5	Side cladding to gables etc	m²					
4.1.3.4.1.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.3.4.1.7	Circular cutting	m²					
4.1.3.4.1.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.3.4.1.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.3.4.1.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.3.4.1.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.1.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.1.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.1.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.1.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.1.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.1.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.4.2	305 x 280mm "Nutek Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.2.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.3.4.2.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.3.4.2.3	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.3.4.2.4	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.3.4.2.5	Side cladding to gables etc	m²					
4.1.3.4.2.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.3.4.2.7	Circular cutting	m²					
4.1.3.4.2.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					

4.1.3.4.2.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.2.1 0	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.4.2.1 1	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.2.1 2	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.2.1 3	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.2.1 4	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.2.1 5	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.2.1 6	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.2.1 7	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.4.3	305 x 305mm "Nutec Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.3.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.4.3.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.4.3.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.4.3.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.4.3.5	Side cladding to gables etc	m ²					
4.1.3.4.3.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.4.3.7	Circular cutting	m ²					
4.1.3.4.3.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.3.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.3.1 0	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.4.3.1 1	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.3.1 2	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.3.1 3	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.3.1 4	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.3.1 5	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.3.1 6	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.3.1 7	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.3.4.4	355 x 205mm "Nutech Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.4.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.4.4.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.4.4.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.4.4.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.4.4.5	Side cladding to gables etc	m ²					
4.1.3.4.4.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.4.4.7	Circular cutting	m ²					
4.1.3.4.4.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.4.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.4.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.4.4.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.4.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.4.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.4.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.4.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.4.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.4.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.4.5	355 x 225mm "Nutech Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.5.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.4.5.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.4.5.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.4.5.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.4.5.5	Side cladding to gables etc	m ²					
4.1.3.4.5.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.4.5.7	Circular cutting	m ²					
4.1.3.4.5.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					

4.1.3.4.5.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.5.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.4.5.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.5.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.5.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.5.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.5.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.5.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.5.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.4.6	355 x 280mm "Nutec Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.6.1	Roof covering with pitches not exceeding 25 degrees	m ²					
4.1.3.4.6.2	Roof covering with pitches exceeding 25 degrees	m ²					
4.1.3.4.6.3	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.1.3.4.6.4	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.1.3.4.6.5	Side cladding to gables etc	m ²					
4.1.3.4.6.6	Roof covering and side cladding to dormers, turrets, etc	m ²					
4.1.3.4.6.7	Circular cutting	m ²					
4.1.3.4.6.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.6.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m ²					
4.1.3.4.6.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m ²					
4.1.3.4.6.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.6.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.6.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.6.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.6.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.6.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.6.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					

4.1.3.4.7	280 x 455mm "Nutek Fibre Cement/ Natural Roof slates" or Equivalent tiles nailed with non-corrosive nails and/or fixed with suitable non-corrosive clips as required to and including 38 x 50 mm or 38 x 38mm sawn softwood battens at 250 to 600mm centres over and including an underlay of 250 micron polyethelene sheeting in accordance with SANS 952 Type E fixed to rafters under battens with minimum laps of 150mm						
4.1.3.4.7.1	Roof covering with pitches not exceeding 25 degrees	m²					
4.1.3.4.7.2	Roof covering with pitches exceeding 25 degrees	m²					
4.1.3.4.7.3	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.3.4.7.4	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.3.4.7.5	Side cladding to gables etc	m²					
4.1.3.4.7.6	Roof covering and side cladding to dormers, turrets, etc	m²					
4.1.3.4.7.7	Circular cutting	m²					
4.1.3.4.7.8	Open valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.3.4.7.9	Close cut and fitted valleys including raking cutting on both sides and necessary additional battens (valley gutters elsewhere)	m²					
4.1.3.4.7.10	Extra on roof covering for 25 x 50mm sawn softwood tilting fillets	m²					
4.1.3.4.7.11	Extra on roof covering for 38 x 50mm sawn softwood tilting battens at eaves.	m					
4.1.3.4.7.12	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.7.13	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour.	m					
4.1.3.4.7.14	Purpose made tile to end of ridge bedded and pointed in 1:3 cement mortar tinted to match tile colour.	No.					
4.1.3.4.7.15	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar tinted to match tile colour.	No.					
4.1.3.4.7.16	Ridge tiles to match roof tiles to bedded and pointed in 3:1 suitably tinted sand cement mortar over DPC 150mm wide.	m					
4.1.3.4.7.17	Extra over Ridge tiling for solid bedding and pointing of fair ends at gables.	No.					
4.1.3.4.8	NUTEC FIBRE CEMENT AND NATURAL ROOF SLATE UNDERLAYS						
4.1.3.4.8.1	Supply and fit new Slateflex or equivalent underlay	m²					
4.1.3.4.8.2	Supply and fit new 900mm x 3 ply type 40 m² Malthoid or equivalent underlay	m²					
4.1.3.4.9	NUTEC OR EQUIVALENT FASCIA AND BARGE BOARDS INCLUDING ACCESSORIES						
4.1.3.4.9.1	Supply and install 150mm x 10mm fascia boards complete with "H" profile joiner strip and corner	m					
4.1.3.4.9.2	Supply and install 225mm x 10mm fasciaboards complete with "H" profile joiner strip and corner	m					
4.1.3.4.9.3	Supply and install 300mm x 10mm fasciaboards complete with "H" profile joiner strip and corner	m					
4.1.3.4.9.4	Supply and install 200mm(V) x 80mm(H) Socketless Barge Board complete with "H" profile joiner	m					
4.1.3.4.9.5	Supply and install 275mm(V) x 80mm(H) Socketless Barge Board complete with "H" profile joiner	m					
4.1.3.4.9.6	Supply and install 220mm Big Six or equivalent: "S"-type Barge board	m					
4.1.3.4.9.7	Supply and install 250mm Profile "B"-type Barge board	m					
4.1.3.4.9.8	Supply and install 260mm x 260mm Big Six Barge board	m					

4.1.3.5	SHINGLES Western red cedar shingles in approximately 400mm lengths and widths varying from 75 to 250mm laid with 125mm gauge and minimum side laps of 38mm and nailed with non-corrosive clout nails to 38 x 38mm sawn softwood battens at 125mm centres spiked on (batterns measured elsewhere)						
4.1.3.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.1.3.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.1.3.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.1.3.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.1.3.5.5	Side cladding to gables etc	m²					
4.1.3.5.6	Soffit cladding to overhangs etc.	m²					
4.1.3.5.7	Roof covering and side and soffit claddings to dormers, turrets, etc	m²					
4.1.3.5.8	Extra on roof covering for double course at eaves including 38 x 38mm sawn softwood tilting fillet	m					
4.1.3.5.9	Circular cutting	m					
4.1.3.5.10	Close cut and mitred hip including 6.38mm thick galvanised sheet iron/sheet copper/sheet aluminium soakers and additional battens	m					
4.1.3.5.11	Close cut and mitred valley including 6.38mm thick galvanised sheet iron/sheet copper/sheet aluminium soakers and additional battens	m					
4.1.3.5.12	Saddle ridge of narrow width shingles laid with top ends lapped alternately and minimum side laps of 38mm and nailed with non-corrosive clout nails	m					
4.1.5.6	Allow the PC Sum of R1 600.00/m² for supply and delivery of shingle tiles (including accessories) in approximately 400mm lengths and widths varying from 75 to 250mm laid with 125mm gauge and minimum side laps of 38mm and nailed with non-corrosive clout nails to 38 x 38mm sawn softwood battens at 125mm centres spiked on (batterns measured elsewhere)						
4.1.3.6.1	Complete supply and installation of shingles above on roofs not exceeding 25 degrees	m²					
4.1.3.6.2	Complete supply and installation of shingles above on roofs exceeding 25 degrees	m²					
4.1.3.6.3	Complete supply and installation of shingles above on roofs not exceeding 25 degrees (in patches)	m²					
4.1.3.6.4	Complete supply and installation of shingles above on roofs exceeding 25 degrees (in patches)	m²					
4.2	PROFILED SHEETING OF METAL, FIBRE-CEMENT, PLASTIC, ETC.						
4.2.1	Supply and install roof sheeting/cladding that is double-interlocking concealed-fix "Klip-Lok 406 or /700™" or equivalent profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified steel.						
4.2.1.1	0.5mm "Saflok 700 with a Colourplus Coating interlocking sheet" or equivalent Profiled metal sheeting fixed to steel purlins with and including 0.5mm embossed "Zincal" or equivalent accessories						
4.2.1.1.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.1.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.1.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.1.1.5	Side cladding	m²					

4.2.1.1.6	Ridge capping	m					
4.2.1.1.7	Broad flute closers	m					
4.2.1.1.8	Narrow flute closers	m					
4.2.1.1.9	Hip capping to suit roofing profile	m					
4.2.1.1.10	Corner trim to suit roofing profile	No.					
4.2.1.1.11	Sidewall flashing with clip-on sliders in stainless steel grade 304 as per roofing manufacturer specifications	m					
4.2.1.1.12	Headwall flashing with clip-on sliders in stainless steel grade 304 as per roofing manufacturer specifications	m					
4.2.1.1.13	Apron flashing with clip-on sliders in stainless steel grade 304 as per roofing manufacturer specifications	m					
4.2.1.1.14	Counter flashing with clip-on sliders in stainless steel grade 304 as per roofing manufacturer specifications	m					
4.2.1.1.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.1.2	0.53mm "Klip-Lok 700 with Zinalume AZ150 coating" or equivalent certified high yield steel sheeting on existing timber or steel purlins with and including accessories						
4.2.1.2.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.2.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.2.3	Side cladding	m²					
4.2.1.2.4	Ridge capping	m					
4.2.1.2.5	Broad flute closers	m					
4.2.1.2.6	Narrow flute closers	m					
4.2.1.2.7	Hip capping to suit roofing profile	m					
4.2.1.2.8	Corner trim to suit roofing profile	No.					
4.2.1.2.9	Sidewall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.2.10	Headwall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.2.11	Apron flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.2.12	Counter flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.2.13	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.1.3	0.53mm "Klip-Lok 406 with Zinalume AZ150 coating" or equivalent certified high yield steel sheeting on existing timber or steel purlins with and including accessories						
4.2.1.3.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.3.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.3.3	Side cladding	m²					
4.2.1.3.4	Ridge capping	m					
4.2.1.3.5	Broad flute closers	m					
4.2.1.3.6	Narrow flute closers	m					
4.2.1.3.7	Hip capping to suit roofing profile	m					
4.2.1.3.8	Corner trim to suit roofing profile	No.					

4.2.1.3.9	Sidewall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.3.10	Headwall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.3.11	Apron flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.3.12	Counter flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.3.13	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.1.4	0,47mm "Klip-Lok 406" or equivalent heavy industrial 'Z200 Chromadek' or equivalent sheeting roll formed in continuous lengths from certified steel with 'Colourbond' or equivalent finish on one side, fixed to timber purlins or rails:						
4.2.1.4.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.4.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.4.3	Side cladding	m²					
4.2.1.4.4	Ridge capping	m					
4.2.1.4.5	Broad flute closers	m					
4.2.1.4.6	Narrow flute closers	m					
4.2.1.4.7	Hip capping to suit roofing profile	m					
4.2.1.4.8	Corner trim to suit roofing profile	No.					
4.2.1.4.9	Sidewall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.4.10	Headwall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.4.11	Apron flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.4.12	Counter flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.4.13	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.1.5	0,53mm "Klip-Lok 406" or equivalent heavy industrial 'Z200 Chromadek' or equivalent sheeting roll formed in continuous lengths from certified steel with 'Colourbond' or equivalent finish on one side, fixed to timber purlins or rails:						
4.2.1.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.1.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.1.5.5	Side cladding	m²					
4.2.1.5.6	Ridge capping	m					
4.2.1.5.7	Broad flute closers	m					
4.2.1.5.8	Narrow flute closers	m					
4.2.1.5.9	Hip capping to suit roofing profile	m					
4.2.1.5.10	Corner trim to suit roofing profile	No.					
4.2.1.5.11	Sidewall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.5.12	Headwall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.5.13	Apron flashing fixed with S10 clips as per roofing manufacturer specifications	m					

4.2.1.5.14	Counter flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.5.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.1.6	0,53mm "Klip-Lok 700" or equivalent heavy industrial 'Z200 Chromadek' or equivalent sheeting roll formed in continuous lengths from certified steel with 'Colourbond' or equivalent finish on one side, fixed to timber purlins or rails:						
4.2.1.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.1.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.1.6.5	Side cladding	m²					
4.2.1.6.6	Ridge capping	m					
4.2.1.6.7	Broad flute closers	m					
4.2.1.6.8	Narrow flute closers	m					
4.2.1.6.9	Hip capping to suit roofing profile	m					
4.2.1.6.10	Corner trim to suit roofing profile	No.					
4.2.1.6.11	Sidewall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.6.12	Headwall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.6.13	Apron flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.6.14	Counter flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.6.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.1.7	0,47mm "Klip-Lok 700" or equivalent heavy industrial 'Z200 Chromadek' or equivalent sheeting roll formed in continuous lengths from certified steel with 'Colourbond' or equivalent finish on one side, fixed to timber purlins or rails:						
4.2.1.7.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.1.7.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.1.7.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.1.7.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.1.7.5	Side cladding	m²					
4.2.1.7.6	Ridge capping	m					
4.2.1.7.7	Broad flute closers	m					
4.2.1.7.8	Narrow flute closers	m					
4.2.1.7.9	Hip capping to suit roofing profile	m					
4.2.1.7.10	Corner trim to suit roofing profile	No.					
4.2.1.7.11	Sidewall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.7.12	Headwall flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.7.13	Apron flashing fixed with S10 clips as per roofing manufacturer specifications	m					

4.2.1.7.14	Counter flashing fixed with S10 clips as per roofing manufacturer specifications	m					
4.2.1.7.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2	IBR 686, roll-formed certified roof sheeting/cladding fixed to steel/timber purlins/girts using class 3 fasteners, in strict accordance with manufacturer's specifications.						
4.2.2.1	Galvanized steel Z275 0.5mm complying with ISQ 550 (3T) (A653)						
4.2.2.1.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.1.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.1.5	Side cladding	m²					
4.2.2.1.6	Ridge capping	m					
4.2.2.1.7	Broad flute closers	m					
4.2.2.1.8	Narrow flute closers	m					
4.2.2.1.9	Hip capping to suit roofing profile	m					
4.2.2.1.10	Corner trim to suit roofing profile	No.					
4.2.2.1.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.1.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.1.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.1.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.2.1.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.2	Galvanized steel Z275 0.53mm complying with ISQ 550 (3T) (A653)						
4.2.2.2.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.2.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.2.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.2.5	Side cladding	m²					
4.2.2.2.6	Ridge capping	m					
4.2.2.2.7	Broad flute closers	m					
4.2.2.2.8	Narrow flute closers	m					
4.2.2.2.9	Hip capping to suit roofing profile	m					
4.2.2.2.10	Corner trim to suit roofing profile	No.					
4.2.2.2.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.2.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.2.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.2.14	Counter flashing as per roofing manufacturer specifications	m					

4.2.2.2.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.3	Galvanized steel Z275 0.58mm complying with ISQ 300						
4.2.2.3.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.2.3.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.2.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.2.3.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.2.3.5	Side cladding	m ²					
4.2.2.3.6	Ridge capping	m					
4.2.2.3.7	Broad flute closers	m					
4.2.2.3.8	Narrow flute closers	m					
4.2.2.3.9	Hip capping to suit roofing profile	m					
4.2.2.3.10	Corner trim to suit roofing profile	No.					
4.2.2.3.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.3.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.3.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.3.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.2.3.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.3.16	Extra over roof covering for bullnose to a radius of approximately 450mm	No.					
4.2.2.3.17	Extra over roof covering for cut out not exceeding 200mm diameter	No.					
4.2.2.3.18	Soaker panel suitable for vent pipe not exceeding 200mm diameter	No.					
4.2.2.4	Galvanized steel Z275 0.8mm complying with ISQ 230						
4.2.2.4.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.2.4.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.2.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.2.4.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.2.4.5	Side cladding	m ²					
4.2.2.4.6	Ridge capping	m					
4.2.2.4.7	Broad flute closers	m					
4.2.2.4.8	Narrow flute closers	m					
4.2.2.4.9	Hip capping to suit roofing profile	No.					
4.2.2.4.10	Corner trim to suit roofing profile	m					
4.2.2.4.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.4.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.4.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.4.14	Counter flashing as per roofing manufacturer specifications	m					

4.2.2.4.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.5	Galvanised steel Z200 0.5mm complying with ISQ 550 (3T) (A653) with a "Chromadek®" or equivalent colour coated finish to one side and standard backing coat						
4.2.2.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.5.5	Side cladding	m²					
4.2.2.5.6	Ridge capping	m					
4.2.2.5.7	Broad flute closers	m					
4.2.2.5.8	Narrow flute closers	m					
4.2.2.5.9	Hip capping to suit roofing profile	m					
4.2.2.5.10	Corner trim to suit roofing profile	No.					
4.2.2.5.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.5.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.5.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.5.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.2.5.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.6	Galvanised steel Z200 0.58mm complying with ISQ300 with a "Chromadek® " or equivalent colour coated finish to one side and standard backing coat						
4.2.2.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.6.5	Side cladding	m²					
4.2.2.6.6	Ridge capping	m					
4.2.2.6.7	Broad flute closers	m					
4.2.2.6.8	Narrow flute closers	m					
4.2.2.6.9	Hip capping to suit roofing profile	m					
4.2.2.6.10	Corner trim to suit roofing profile	No.					
4.2.2.6.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.6.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.6.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.6.14	Counter flashing as per roofing manufacturer specifications	m					

4.2.2.6.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.7	Galvanised steel Z200 0.8mm complying with ISQ 230 with a "Chromadek®" or equivalent colour coated finish to one side and standard backing coat						
4.2.2.7.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.7.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.7.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.7.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.7.5	Side cladding	m²					
4.2.2.7.6	Ridge capping	m					
4.2.2.7.7	Broad flute closers	m					
4.2.2.7.8	Narrow flute closers	m					
4.2.2.7.9	Hip capping to suit roofing profile	No.					
4.2.2.7.10	Corner trim to suit roofing profile	m					
4.2.2.7.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.7.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.7.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.7.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.2.7.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.8	"ZINCALUME®" or equivalent AZ150 coated steel G550 0.47mm (Light Industrial) with a Clean "COLORBOND™" or equivalent finish to one side and a standard backing coat to other						
4.2.2.8.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.8.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.8.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.8.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.8.5	Side cladding	m²					
4.2.2.8.6	Ridge capping	m					
4.2.2.8.7	Broad flute closers	m					
4.2.2.8.8	Narrow flute closers	m					
4.2.2.8.9	Hip capping to suit roofing profile	m					
4.2.2.8.10	Corner trim to suit roofing profile	No.					
4.2.2.8.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.8.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.8.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.8.14	Counter flashing as per roofing manufacturer specifications	m					

4.2.2.8.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.9	"ZINCALUME®" or equivalent AZ150 coated steel G550 0.53mm (Heavy Industrial) with a Clean COLORBOND™ or equivalent finish to one side and a standard backing coat to other						
4.2.2.9.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.9.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.9.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.9.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.9.5	Side cladding	m²					
4.2.2.9.6	Ridge capping	m					
4.2.2.9.7	Broad flute closers	m					
4.2.2.9.8	Narrow flute closers	m					
4.2.2.9.9	Hip capping to suit roofing profile	m					
4.2.2.9.10	Corner trim to suit roofing profile	No.					
4.2.2.9.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.9.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.9.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.9.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.2.9.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.2.10	"ZINCALUME®" or equivalent AZ200 coated steel G550 0.53mm (Heavy Industrial) with a Clean "COLORBOND™" or equivalent finish to one side and a standard backing coat to other						
4.2.2.10.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.2.10.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.2.10.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.2.10.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.2.10.5	Side cladding	m²					
4.2.2.10.6	Ridge capping	m					
4.2.2.10.7	Broad flute closers	m					
4.2.2.10.8	Narrow flute closers	m					
4.2.2.10.9	Hip capping to suit roofing profile	m					
4.2.2.10.10	Corner trim to suit roofing profile	No.					
4.2.2.10.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.2.10.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.2.10.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.2.10.14	Counter flashing as per roofing manufacturer specifications	m					

4.2.2.10.15	Drip edge flashing not exceeding 500mm girth as per roofing manufacturer specifications	m					
4.2.3	"IBR 890 Supa-Clad" or equivalent roll-formed certified Roof Sheet/cladding and fixed to steel/timber purlins/girts using class 3 fasteners, in strict accordance with manufacturer's specifications.						
4.2.3.1	Galvanized steel Z275 0.5mm (Light Industrial) complying with ISQ 550 (3T) (A653)						
4.2.3.1.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.3.1.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.3.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.3.1.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.3.1.5	Side cladding	m ²					
4.2.3.1.6	Ridge capping	m					
4.2.3.1.7	Broad flute closers	m					
4.2.3.1.8	Narrow flute closers	m					
4.2.3.1.9	Hip capping to suit roofing profile	m					
4.2.3.1.10	Corner trim to suit roofing profile	No.					
4.2.3.1.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.3.1.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.3.1.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.3.1.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.3.2	Galvanized steel Z275 0.58mm (Heavy Industrial) complying with ISQ 550 (3T) (A653)						
4.2.3.2.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.3.2.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.3.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.3.2.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.3.2.5	Side cladding	m ²					
4.2.3.2.6	Ridge capping	m					
4.2.3.2.7	Broad flute closers	m					
4.2.3.2.8	Narrow flute closers	m					
4.2.3.2.9	Hip capping to suit roofing profile	m					
4.2.3.2.10	Corner trim to suit roofing profile	No.					
4.2.3.2.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.3.2.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.3.2.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.3.2.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.3.3	Galvanized steel Z200 0.5mm (Light Industrial) complying with ISQ 550 (3T) (A653) with a "Chromadek®" or equivalent finish to one side and standard backing coat to other						

4.2.3.3.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.3.3.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.3.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.3.3.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.3.3.5	Side cladding	m²					
4.2.3.3.6	Ridge capping	m					
4.2.3.3.7	Broad flute closers	m					
4.2.3.3.8	Narrow flute closers	m					
4.2.3.3.9	Hip capping to suit roofing profile	m					
4.2.3.3.10	Corner trim to suit roofing profile	No.					
4.2.3.3.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.3.3.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.3.3.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.3.3.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.3.4	Galvanized steel Z200 0.58mm (Heavy Industrial) complying with ISQ 550 (3T) (A653) with a "Chromadek®" or equivalent finish to one side and standard backing coat to other						
4.2.3.4.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.3.4.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.3.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.3.4.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.3.4.5	Side cladding	m²					
4.2.3.4.6	Ridge capping	m					
4.2.3.4.7	Broad flute closers	m					
4.2.3.4.8	Narrow flute closers	m					
4.2.3.4.9	Hip capping to suit roofing profile	m					
4.2.3.4.10	Corner trim to suit roofing profile	No.					
4.2.3.4.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.3.4.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.3.4.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.3.4.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.3.5	"ZINCALUME®" or equivalent AZ150 coated steel G550 0.47mm (Light Industrial) with a Clean "COLORBOND™" or equivalent finish to one side and a standard backing coat to other						
4.2.3.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.3.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.3.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.3.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					

4.2.3.5.5	Side cladding	m²					
4.2.3.5.6	Ridge capping	m					
4.2.3.5.7	Broad flute closers	m					
4.2.3.5.8	Narrow flute closers	m					
4.2.3.5.9	Hip capping to suit roofing profile	m					
4.2.3.5.10	Corner trim to suit roofing profile	No.					
4.2.3.5.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.3.5.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.3.5.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.3.5.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.3.6	"ZINCALUME®" or equivalent AZ200 coated steel G550 0.53mm (Heavy Industrial) with a Clean "COLORBOND™" or equivalent finish to one side and a standard backing coat to other						
4.2.3.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.3.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.3.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.3.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.3.6.5	Side cladding	m²					
4.2.3.6.6	Ridge capping	m					
4.2.3.6.7	Broad flute closers	m					
4.2.3.6.8	Narrow flute closers	m					
4.2.3.6.9	Hip capping to suit roofing profile	m					
4.2.3.6.10	Corner trim to suit roofing profile	No.					
4.2.3.6.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.3.6.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.3.6.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.3.6.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4	Corrugated 10.5 with a 762mm cover roll-formed certified roof sheeting/cladding and fixed to steel/timber purlins/girts using class 3 fasteners, in strict accordance with manufacturer's specifications						
4.2.4.1	Galvanized steel Z275 0.5mm complying with ISQ 550 (3T) (A653)						
4.2.4.1.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.1.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.1.5	Side cladding	m²					
4.2.4.1.6	Ridge capping	m					

4.2.4.1.7	Broad flute closers	m					
4.2.4.1.8	Narrow flute closers	m					
4.2.4.1.9	Hip capping to suit roofing profile	m					
4.2.4.1.10	Corner trim to suit roofing profile	No.					
4.2.4.1.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.1.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.1.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.1.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.2	Galvanized steel Z275 0.58mm complying with ISQ 300						
4.2.4.2.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.2.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.2.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.2.5	Side cladding	m²					
4.2.4.2.6	Ridge capping	m					
4.2.4.2.7	Broad flute closers	m					
4.2.4.2.8	Narrow flute closers	m					
4.2.4.2.9	Hip capping to suit roofing profile	m					
4.2.4.2.10	Corner trim to suit roofing profile	No.					
4.2.4.2.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.2.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.2.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.2.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.3	Galvanized steel Z275 0.8mm complying with ISQ 230						
4.2.4.3.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.3.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.3.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.3.5	Side cladding	m²					
4.2.4.3.6	Ridge capping	m					
4.2.4.3.7	Broad flute closers	m					
4.2.4.3.8	Narrow flute closers	m					
4.2.4.3.9	Hip capping to suit roofing profile	m					
4.2.4.3.10	Corner trim to suit roofing profile	No.					
4.2.4.3.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.3.12	Headwall flashing as per roofing manufacturer specifications	m					

4.2.4.3.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.3.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.4	Galvanised steel Z200 0.5mm complying with ISQ 550 (3T) (A653) with a "Chromadek®" or equivalent colour coated finish to one side and standard backing coat to other						
4.2.4.4.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.4.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.4.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.4.5	Side cladding	m²					
4.2.4.4.6	Ridge capping	m					
4.2.4.4.7	Broad flute closers	m					
4.2.4.4.8	Narrow flute closers	m					
4.2.4.4.9	Hip capping to suit roofing profile	m					
4.2.4.4.10	Corner trim to suit roofing profile	No.					
4.2.4.4.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.4.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.4.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.4.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.5	Galvanised steel Z200 0.58mm complying with ISQ300 with a "Chromadek®" or equivalent colour coated finish to one side and standard backing coat to other						
4.2.4.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.5.5	Side cladding	m²					
4.2.4.5.6	Ridge capping	m					
4.2.4.5.7	Broad flute closers	m					
4.2.4.5.8	Narrow flute closers	m					
4.2.4.5.9	Hip capping to suit roofing profile	m					
4.2.4.5.10	Corner trim to suit roofing profile	No.					
4.2.4.5.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.5.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.5.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.5.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.6	Galvanised steel Z200 0.8mm complying with ISQ 230 with a "Chromadek®" or equivalent colour coated finish to one side and standard backing coat to other						

4.2.4.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.6.5	Side cladding	m²					
4.2.4.6.6	Ridge capping	m					
4.2.4.6.7	Broad flute closers	m					
4.2.4.6.8	Narrow flute closers	m					
4.2.4.6.9	Hip capping to suit roofing profile	m					
4.2.4.6.10	Corner trim to suit roofing profile	No.					
4.2.4.6.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.6.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.6.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.6.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.7	"ZINCALUME®" or equivalent AZ150 coated steel G550 0.47mm (Light Industrial) with a Clean "COLORBOND™" or equivalent finish to one side and a standard backing coat to other						
4.2.4.7.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.7.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.7.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.7.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.7.5	Side cladding	m²					
4.2.4.7.6	Ridge capping	m					
4.2.4.7.7	Broad flute closers	m					
4.2.4.7.8	Narrow flute closers	m					
4.2.4.7.9	Hip capping to suit roofing profile	m					
4.2.4.7.10	Corner trim to suit roofing profile	No.					
4.2.4.7.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.7.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.7.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.7.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.8	ZINCALUME® or equivalent AZ150 coated steel G550 0.53mm (Light Industrial) with a Clean COLORBOND™ or equivalent finish to one side and a standard backing coat to other						
4.2.4.8.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.8.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.8.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.8.4	Roof covering with pitch exceeding 25 degrees in patches	m²					

4.2.4.8.5	Side cladding	m²					
4.2.4.8.6	Ridge capping	m					
4.2.4.8.7	Broad flute closers	m					
4.2.4.8.8	Narrow flute closers	m					
4.2.4.8.9	Hip capping to suit roofing profile	m					
4.2.4.8.10	Corner trim to suit roofing profile	No.					
4.2.4.8.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.8.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.8.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.8.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.4.9	"ZINCALUME®" or equivalent AZ200 coated steel G550 0.53mm (Heavy Industrial) with a Clean "COLORBOND™" or equivalent" finish to one side and a standard backing coat to other						
4.2.4.9.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.4.9.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.4.9.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.4.9.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.4.9.5	Side cladding	m²					
4.2.4.9.6	Ridge capping	m					
4.2.4.9.7	Broad flute closers	m					
4.2.4.9.8	Narrow flute closers	m					
4.2.4.9.9	Hip capping to suit roofing profile	m					
4.2.4.9.10	Corner trim to suit roofing profile	No.					
4.2.4.9.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.4.9.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.4.9.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.4.9.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.5	Supply and Install roof sheeting/cladding that is double-interlocking concealed-fix "DIAMONDEK 406™" or equivalent profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified steel.						
4.2.5.1	Galvanized steel Z275 0.53mm complying with ISQ 550 (3T) (A653)						
4.2.5.1.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.5.1.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.5.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.5.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.5.1.5	Side cladding	m²					
4.2.5.1.6	Ridge capping	m					

4.2.5.1.7	Broad flute closers	m					
4.2.5.1.8	Narrow flute closers	m					
4.2.5.1.9	Hip capping to suit roofing profile	m					
4.2.5.1.10	Corner trim to suit roofing profile	No.					
4.2.5.1.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.5.1.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.5.1.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.5.1.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.5.2	ZINCALUME® or equivalent AZ150 coated steel G550 0.53mm (Light Industrial) with a Clean COLORBOND™ or equivalent finish to one side and a standard backing coat to other						
4.2.5.2.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.5.2.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.5.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.5.2.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.5.2.5	Side cladding	m²					
4.2.5.2.6	Ridge capping	m					
4.2.5.2.7	Broad flute closers	m					
4.2.5.2.8	Narrow flute closers	m					
4.2.5.2.9	Hip capping to suit roofing profile	m					
4.2.5.2.10	Corner trim to suit roofing profile	No.					
4.2.5.2.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.5.2.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.5.2.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.5.2.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.5.3	"ZINCALUME®" or equivalent AZ200 coated steel G550 0.53mm (Heavy Industrial) with a Clean "COLORBOND™ or equivalent" finish to one side and a standard backing coat to other						
4.2.5.3.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.5.3.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.5.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.5.3.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.5.3.5	Side cladding	m²					
4.2.5.3.6	Ridge capping	m					
4.2.5.3.7	Broad flute closers	m					
4.2.5.3.8	Narrow flute closers	m					
4.2.5.3.9	Hip capping to suit roofing profile	m					
4.2.5.3.10	Corner trim to suit roofing profile	No.					

4.2.5.3.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.5.3.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.5.3.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.5.3.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.5.4	0.53mm thick new Light Industrial DIAMONDEK or equivalent Sheeting including Classicoat or equivalent to two sides						
4.2.5.4.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.5.4.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.5.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.5.4.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.5.4.5	Side cladding	m ²					
4.2.5.4.6	Ridge capping	m					
4.2.5.4.7	Broad flute closers	m					
4.2.5.4.8	Narrow flute closers	m					
4.2.5.4.9	Hip capping to suit roofing profile	m					
4.2.5.4.10	Corner trim to suit roofing profile	No.					
4.2.5.4.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.5.4.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.5.4.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.5.4.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.5.5	Galvanized steel Z275 0.58mm complying with ISQ 300 DIAMONDEK or equivalent sheeting						
4.2.5.5.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.5.5.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.5.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.5.5.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.5.5.5	Side cladding	m ²					
4.2.5.5.6	Ridge capping	m					
4.2.5.5.7	Broad flute closers	m					
4.2.5.5.8	Narrow flute closers	m					
4.2.5.5.9	Hip capping to suit roofing profile	m					
4.2.5.5.10	Corner trim to suit roofing profile	No.					
4.2.5.5.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.5.5.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.5.5.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.5.5.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.5.6	ZINCALUME® or equivalent AZ150 coated steel G550 0.53mm (Light Industrial) in mill finish DIAMONDEK or equivalent sheeting						

4.2.5.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.5.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.5.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.5.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.5.6.5	Side cladding	m²					
4.2.5.6.6	Ridge capping	m					
4.2.5.6.7	Broad flute closers	m					
4.2.5.6.8	Narrow flute closers	m					
4.2.5.6.9	Hip capping to suit roofing profile	m					
4.2.5.6.10	Corner trim to suit roofing profile	No.					
4.2.5.6.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.5.6.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.5.6.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.5.6.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6	Roof sheeting/cladding that is interlocking concealed-fix Brownbuilt profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified steel.						
4.2.6.1	Galvanized steel Z275 0.58mm complying with ISQ 300						
4.2.6.1.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.6.1.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.6.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.6.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.6.1.5	Side cladding	m²					
4.2.6.1.6	Ridge capping	m					
4.2.6.1.7	Broad flute closers	m					
4.2.6.1.8	Narrow flute closers	m					
4.2.6.1.9	Hip capping to suit roofing profile	m					
4.2.6.1.10	Corner trim to suit roofing profile	No.					
4.2.6.1.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.6.1.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.6.1.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.6.1.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6.2	Galvanized steel Z200 0.8mm (Heavy Industrial) complying with ISQ 300 with a Chromadek® or equivalent finish to one side and standard backing coat to other						
4.2.6.2.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.6.2.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.6.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					

4.2.6.2.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.6.2.5	Side cladding	m²					
4.2.6.2.6	Ridge capping	m					
4.2.6.2.7	Broad flute closers	m					
4.2.6.2.8	Narrow flute closers	m					
4.2.6.2.9	Hip capping to suit roofing profile	m					
4.2.6.2.10	Corner trim to suit roofing profile	No.					
4.2.6.2.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.6.2.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.6.2.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.6.2.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6.3	Stainless Steel 0.6mm thick Brownbult or equivalent Sheeting						
4.2.6.3.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.6.3.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.6.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.6.3.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.6.3.5	Side cladding	m²					
4.2.6.3.6	Ridge capping	m					
4.2.6.3.7	Broad flute closers	m					
4.2.6.3.8	Narrow flute closers	m					
4.2.6.3.9	Hip capping to suit roofing profile	m					
4.2.6.3.10	Corner trim to suit roofing profile	No.					
4.2.6.3.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.6.3.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.6.3.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.6.3.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6.4	ZincAL® or equivalent AZ200 coated steel G550 0.55mm (Heavy Industrial) with a ColorPLUS® or equivalent finish to one side and a standard backing coat to other						
4.2.6.4.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.2.6.4.2	Roof covering with pitch exceeding 25 degrees	m²					
4.2.6.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.2.6.4.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.2.6.4.5	Side cladding	m²					
4.2.6.4.6	Ridge capping	m					
4.2.6.4.7	Broad flute closers	m					

4.2.6.4.8	Narrow flute closers	m					
4.2.6.4.9	Hip capping to suit roofing profile	m					
4.2.6.4.10	Corner trim to suit roofing profile	No.					
4.2.6.4.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.6.4.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.6.4.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.6.4.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6.5	Aluminium 0.8mm thick Brownbuilt or equivalent Sheeting with a Mill finish						
4.2.6.5.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.6.5.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.6.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.6.5.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.6.5.5	Side cladding	m ²					
4.2.6.5.6	Ridge capping	m					
4.2.6.5.7	Broad flute closers	m					
4.2.6.5.8	Narrow flute closers	m					
4.2.6.5.9	Hip capping to suit roofing profile	m					
4.2.6.5.10	Corner trim to suit roofing profile	No.					
4.2.6.5.11	Sidewall flashing as per roofing manufacturer specifications	m					
4.2.6.5.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.6.5.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.6.5.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6.6	ZINCALUME® or equivalent AZ150 coated steel G550 0.53mm (Heavy Industrial) with a Clean COLORBOND™ or equivalent finish to one side and a standard backing coat to other						
4.2.6.6.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.2.6.6.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.2.6.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.2.6.6.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.2.6.6.5	Side cladding	m ²					
4.2.6.6.6	Ridge capping	m					
4.2.6.6.7	Broad flute closers	m					
4.2.6.6.8	Narrow flute closers	m					
4.2.6.6.9	Hip capping to suit roofing profile	m					
4.2.6.6.10	Corner trim to suit roofing profile	No.					
4.2.6.6.11	Sidewall flashing as per roofing manufacturer specifications	m					

4.2.6.6.12	Headwall flashing as per roofing manufacturer specifications	m					
4.2.6.6.13	Apron flashing as per roofing manufacturer specifications	m					
4.2.6.6.14	Counter flashing as per roofing manufacturer specifications	m					
4.2.6.7	EXTRA OVER: Upgrade to all profiled metal roof sheeting coatings listed above						
4.2.6.7.1	AZ150 to AZ200	m ²					
4.3	SUPPLY AND INSTALL PROFILED POLYCARBONATE, GLASS FIBRE, TRANSLUCENT SHEETING AND ACCESSORIES						
4.3.1	Supply and Install 1.25mm thick Polycarb IBR profile of various colours, nailed with galvanised steel clout nails to specified softwood battens at specified centres						
4.3.1.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.3.1.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.3.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.3.1.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.3.1.5	Side cladding	m ²					
4.3.2	Supply and Install Glass fibre Roof sheeting nailed with galvanised steel clout nails to specified softwood battens at specified centres.						
4.3.2.1	1.00mm thick Big Six profile various colours						
4.3.2.1.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.3.2.1.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.3.2.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.3.2.1.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.3.2.1.5	Side cladding	m ²					
4.3.2.2	1.25mm thick Big Six profile various colours						
4.3.2.2.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.3.2.2.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.3.2.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.3.2.2.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.3.2.2.5	Side cladding	m ²					
4.3.2.3	1.00mm thick Nurib profile various colours						
4.3.2.3.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.3.2.3.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.3.2.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					
4.3.2.3.4	Roof covering with pitch exceeding 25 degrees in patches	m ²					
4.3.2.3.5	Side cladding	m ²					
4.3.2.4	1.25mm thick Nurib profile various colours						
4.3.2.4.1	Roof covering with pitch not exceeding 25 degrees	m ²					
4.3.2.4.2	Roof covering with pitch exceeding 25 degrees	m ²					
4.3.2.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m ²					

4.3.2.4.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.2.4.5	Side cladding	m²					
4.3.2.5	1.00mm thick Corrugated profile various colours						
4.3.2.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.2.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.2.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.2.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.2.5.5	Side cladding	m²					
4.3.2.6	1.25mm thick Corrugated profile various colours						
4.3.2.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.2.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.2.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.2.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.2.6.5	Side cladding	m²					
4.3.2.7	1.00mm thick IBR profile various colours						
4.3.2.7.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.2.7.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.2.7.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.2.7.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.2.7.5	Side cladding	m²					
4.3.3	Supply and install Polycarbonate Translucent or equivalent Roof Covering– All Profiles nailed with galvanised steel clout nails to and including specified softwood battens at specified centres.						
4.3.3.1	1.2mm thick Flekspan IBR Profile - various colours						
4.3.3.1.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.3.1.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.3.1.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.3.1.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.3.1.5	Side cladding	m²					
4.3.3.2	1.2mm thick Corrugated Profile various colours						
4.3.3.2.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.3.2.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.3.2.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.3.2.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.3.2.5	Side cladding	m²					
4.3.3.3	1.2mm thick Nurib Profile - various colours						
4.3.3.3.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.3.3.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.3.3.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					

4.3.3.3.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.3.3.5	Side cladding	m²					
4.3.3.4	1.2 mm thick Big Six Profile – various colours						
4.3.3.4.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.3.4.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.3.4.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.3.4.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.3.4.5	Side cladding	m²					
4.3.3.5	1.2mm thick Supa Clad Profile – various colours						
4.3.3.5.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.3.5.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.3.5.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.3.5.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.3.5.5	Side cladding	m²					
4.3.3.6	1.2mm thick Klip-Lok or equivalent various colours						
4.3.3.6.1	Roof covering with pitch not exceeding 25 degrees	m²					
4.3.3.6.2	Roof covering with pitch exceeding 25 degrees	m²					
4.3.3.6.3	Roof covering with pitch not exceeding 25 degrees in patches	m²					
4.3.3.6.4	Roof covering with pitch exceeding 25 degrees in patches	m²					
4.3.3.6.5	Side cladding	m²					
4.3.4	Supply and install Translucent or equivalent Roof Covering						
4.3.4.1	2.5mm thick IBR Polyethylene roof covering - various colours	m²					
4.4	SUPPLY AND INSTALL NUTEC FIBRE CEMENT OR EQUIVALENT AND NATURAL ROOF SHEETING						
4.4.1	920mm Grey "Nutec" or equivalent Big Six						
4.4.1.1	Supply and install 1500mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.2	Supply and install 1500mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.1.3	Supply and install 1800mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.4	Supply and install 1800mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.1.5	Supply and install 2100mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.6	Supply and install 2100mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					

4.4.1.7	Supply and install 2400mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.8	Supply and install 2400mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.1.9	Supply and install 2700mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.10	Supply and install 2700mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.1.11	Supply and install 3000mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.12	Supply and install 3000mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.1.13	Supply and install 3300mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.14	Supply and install 3300mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.1.15	Supply and install 3600mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.1.16	Supply and install 3600mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2	920mm Terracotta "Nutec Big Six" or Equivalent						
4.4.2.1	Supply and install 1500mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.2	Supply and install 1500mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2.3	Supply and install 1800mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.4	Supply and install 1800mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2.5	Supply and install 2100mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.6	Supply and install 2100mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2.7	Supply and install 2400mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.8	Supply and install 2400mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					

4.4.2.9	Supply and install 2700mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.10	Supply and install 2700mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2.11	Supply and install 3000mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.12	Supply and install 3000mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2.13	Supply and install 3300mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.14	Supply and install 3300mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.2.15	Supply and install 3600mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.2.16	Supply and install 3600mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.3	733mm Victorian Fibre cement sheeting						
4.4.3.1	Supply and install 2400mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.3.2	Supply and install 2400mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.3.3	Supply and install 3000mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.3.4	Supply and install 3000mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.4.3.5	Supply and install 3600mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on one side, side fixed to timber or steel purlins or rails	m²					
4.4.3.6	Supply and install 3600mm profiled sheeting and accessories with factory applied polyacrylic emulsion paint finish on both sides side fixed to timber or steel purlins or rails	m²					
4.5	THATCH						
	Grass for thatch is to be "Albertinia" or equivalent species and to be laid to a generous minimum of 1200mm reed length. The minimum density to which the above mentioned grass should be compacted is 30kg/m/150mm thickness. The fire blanket usually consists of an interlay or an underlay of "Sisalation 420" or equivalent sheeting. 25mm Thick thatch of hand cut grass of local harvested thatch in lengths varying from 1 200 to 3 000mm laid in bundles of suitable size, compacted to a minimum density of 65kg/m/150mm thickness with a fire retardant interlay of "Sisalation 420" or equivalent heavy industrial grade aluminium based sheeting woven in between the thatch and lapped 300mm at joints and grass fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured through interlay with tarred twine to eucalyptus battens CCA treated in accordance with SABS 457, varying in diameter from 20 to 40mm, spaced generally at maximum 300mm centres and at closer centres nearer to eaves:						
4.5.1	Covering to general roof slopes	m²					
4.5.2	Covering to general roof slopes including spreadlayer to exposed soffit	m²					

4.5.3	Covering to dormers, turrets, etc	m²					
4.5.4	100mm Diameter "Hanebalke" or equal approved collar ties	No.					
4.5.5	De-bark, clean and roughly squared to approval and tanalith treat traditional poplar beams approximately 250mm diameter and 6.5m long	No.					
4.5.6	5mm Thick Kaymat or equal approved bidim filter cloth as a full valley underlay cushion	m²					
4.5.7	150 x 150 x 3mm Nominal reinforcing weldmesh	m²					
4.5.8	Ridge 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 other roof slope including covering with galvanised wire bird netting 900mm girth and additional fixing rods	m					
4.5.9	Purpose made continuous glass fibre ridge capping of not less than 1.5mm thick material 1300mm girth in suitable lengths securely fixed to thatch with 75mm wide lapped and sealed heading joints including grass filling under	m					
4.5.10	Extra over ridge capping for purpose made angle piece	No.					
4.5.11	Extra over ridge capping for purpose made curved returned end piece	No.					
4.6	"NUTEC FIBRE CEMENT" OR EQUIVALENT FITTINGS AND ACCESSORIES						
4.6.1	Supply and install 2030mm fixed angle ridge capping	m					
4.6.2	Supply and install 1100mm adjustable ridge capping	m					
4.6.3	Supply and install 130mm diameter ridge finial	No.					
4.7	PVC FASCIA AND BARGE BOARDS						
4.7.1	Supply and install 225mm x 10mm thick fascia boards complete with "H" profile joiner strip and corner	m					
4.7.2	Supply and install 225mm x 4mm thick Barge boards complete with "H" profile joiner strip and corner	m					
4.7.3	Supply and install 225mm x 6mm thick Barge boards complete with "H" profile joiner strip and corner	m					
4.8	ROOF SUNDRIES						
4.8.1	BIRD PROOFING						
4.8.1.1	Galvanised mesh bird proofing with "Block-a-bird" or equivalent reacting chemicals injected into mesh						
4.8.1.1.1	Bird proofing of 1000mm wide	m					
4.8.1.1.2	Bird proofing of 2000mm wide	m					
4.8.1.1.3	Bird proofing of 4000 mm wide	m					
4.8.1.1.4	Bird proofing of 6000 mm wide	m					
4.8.2	BULLNOSING, CRANKING, CURVING AND SOAKER PANELS						
4.8.2.1	Bullnosing and cranking extra over roof sheeting to a minimum radius of 450mm	m					
4.8.2.2	Curving extra over roof sheeting to a minimum radius of 800mm (Running meter measured over width of sheet)	m					
4.8.2.3	Extra over roof covering for cut out not exceeding 200mm diameter	No.					
4.8.2.4	Soaker panel suitable for vent pipe not exceeding 200mm diameter	No.					
4.8.3	ROOF VENTILATORS/EXTRACTORS						
4.8.3.1	"Whirlybird" or equivalent ventilators including all flashings and counter flashings closers, sealing strips, etc and ceiling required for fixing to any of the roof coverings specified in this document or existing roofs not specified						
4.8.3.1.1	Supply and install new 300mm diameter galvanised steel unit	No.					
4.8.3.1.2	Supply and install new 350mm diameter galvanised steel unit	No.					

4.8.3.1.3	Supply and install new 300mm diameter aluminium unit	No.					
4.8.3.1.4	Supply and install new 350mm diameter aluminium unit	No.					
4.8.3.1.5	Supply and install new solar powered unit: 700 m³/h	No.					
4.8.3.1.6	Supply and install new solar powered unit: 1400 m³/h	No.					
4.8.3.1.7	Supply and install new solar powered unit: 2100 m³/h	No.					
4.8.4	INSULATION						
	All insulation is to conform to SANS XA /204,						
4.8.4.1	'Sisalation' 410 or equivalent approved heavy industrial grade aluminium foil based insulation:						
4.8.4.1.1	Insulation laid taut over timber purlins (at approximately 800mm centres) with minimum 150mm stapled laps and fixed concurrent with roof covering including galvanised steel straining wires and all necessary fixing accessories	m²					
4.8.4.2	'Sisalation' 420 or equivalent heavy industrial grade aluminium foil based insulation laid taut over timber rafters (at approximately 760mm centres) and fixed concurrent with battens, etc. including straining wires at 367mm centres laid over new purlins:						
4.8.4.2.1	Insulation laid taut over purlins (at approximately 760mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m²					
4.8.4.2.2	Insulation laid taut over purlins (at approximately 760mm centres) with minimum 150mm laps and fixed concurrent with roof covering including galvanised steel straining wires and all necessary fixing accessories	m²					
4.8.4.3	Thermo Acoustic ' or equivalent ceiling insulation						
4.8.4.3.1	150mm Thick insulation closely fitted and laid roof timbers, etc. (fitment strictly to the manufacturer's instructions). (Measured on flat.)	m²					
4.8.4.4	Factorylite' aluminum foil or equivalent						
4.8.4.4.1	100mm Aluminium foil faced fibreglass insulation fixed over straining wires secured over purlins at 300mm centres with galvanised hoop iron	m²					
4.8.4.5	Isover Iso-Board' insulation or equivalent						
4.8.4.5.1	30mm thick insulation	m²					
4.8.4.5.2	40mm thick insulation	m²					
4.8.4.6	Isotherm' or equivalent insulation polyester fibre insulation						
4.8.4.6.1	50mm Thick insulation laid taut over purlins and ficed concurent with roof covering including plastic covered galvanised steel straining wires.	m²					
4.8.4.6.2	50mm Insulation closely fitted and laid on top of branderling between roof timbers etc.	m²					
4.8.4.6.3	100mm Isotherm roof insulation or equivalent closely fitted and laid in roof space above ceilings including all necessary fixing accessories	m²					
4.8.4.7	Thermal and Acoustic insulation						
4.8.4.7.1	1200mm x 50mm thick thermal and acoustic insulation closely fitted and laid in roof space above ceilings including all necessary fixing accessories	m²					
4.8.4.7.2	1200mm x 75mm thick thermal and acoustic insulation including all necessary fixing accessories	m²					
4.8.4.7.3	1200mm x 100mm thick thermal and acoustic insulation including all necessary fixing accessories	m²					
4.8.4.7.4	1200mm x 115 mm thick thermal and acoustic insulation including all necessary fixing accessories	m²					
4.8.4.7.5	1200mm x 135mm thick thermal and acoustic insulation including all necessary fixing accessories	m²					
4.8.4.8	Alucushion insulation (code 2906)' or equivalent						
4.8.4.8.1	4mm insulation laid taut over purlins and fixed concurrent with roof covering including plastic covered galvanised steel strailing wires.	m²					

4.8.4.9	'Aerolite' think pink insulation or equivalent						
4.8.4.9.1	50mm Thick insulation laid taut over purlins and ficed concurent with roof covering including plastic covered galvanised steel straining wires.	m²					
4.8.4.9.2	50mm Insulation closely fitted and laid on top of brandering between roof timbers etc.	m²					
4.8.4.10	Structaboard' or equivalent						
4.8.4.10.1	White with aluminium finish on top, installed over purlin with aluminium "H"Section joints, concurrent with roof covering.	m²					
4.8.4.10.2	White with Alluminium finish on top, installed over purlin with fixing flap joints, concurrent with roof covering.	m²					
4.8.4.11	Kulite AFF/ Vinyl 25mm or equivalent						
4.8.4.11.1	Aluminium finish on top, installed over purlin with "H"€ aluminium section joints, concurrent withrof covering	m²					
4.8.4.12	80mm thick Lambdaboard high density 35kg/m³ closed cell Polyisocyanurate insulation colour White with Ficotec facing, fixed concurrent with roof covering over timber or steel purlins with "H" Bar joiners screw fixed at 1200mm centres with 6mm gap between boards butt-joined over purlins.						
4.8.4.12.1	Fixed to underside of roof sheeting	m²					
4.8.4.12.2	Fixed to side cladding	m²					
4.8.4.12.3	Structaboard' or equivalent Aluminium foil faced polyisocyanurate foam core rigid board insulation with clear lacquer finish on one side and white lacquer finish on other side.	m²					
4.8.4.13	25mm insulation boards in 1200mm widths with longitudinal flap joints laid over purlins (at approximately 1500mm centres) and fixed concurrent with roof covering including holes boards ec.						
4.8.4.13.1	25mm insulation boards in 1200mm widths with L24161 H-section aluminium bearers at longitudinal joints laid over purlins (at approximately 1500mm centres) and fixed concurrent with roof covering including holes through boards etc.	m²					
4.8.4.13.2	40mm insulation boards in 1200mm widths with longitudinal flap joints laid over purlins (at approximately 1500mm centres) and fixed concurrent with roof covering holes through boards etc)	m²					
4.8.4.13.3	40mm insulation boards in 1200mm widths with L24161 H-Section aluminium bearers at longitudinal joints laid over purlins (at approximately 1500mm centres) and fixed concurrent with roof covering including holes through boards etc.	m²					
4.8.4.14	One layer 50mm thick extruded polystyrene insulation laid loose on waterproofing followed by U14 bidem filter layer then clean 25mm crushed stone ballast n.e 50mm						
4.8.4.14.1	in blanket form closely fitted and laid on top of brandering between roof timbers etc	m²					
4.8.4.14.2	in blanket form lapped not less than 50mm along all edges and laid on top of brandering between roof timbers etc	m²					
4.8.4.15	Door or Windows Reboss Awnings or Equivalent						
4.8.4.15.1	700mm x 1000mm wide awning consist of lightweight acrylic clear board of 99% UV protection from sun fixed to and incl. aluminium brackets	No.					
4.8.4.15.2	700mm x 1000mm wide awning consist of lightweight bronze tinted board of 99% UV protection from sun fixed to and incl. aluminium brackets	No.					
4.8.4.15.3	1000mm x 1000mm wide awning consist of a clear ribbed polycarbonate board of 99% UV protection fixed to and incl. aluminium brackets	No.					
4.8.4.15.4	1000mm x 1000mm wide awning consist of a bronze tinted multiwall board of 99% UV protection fixed to and incl. aluminium brackets	No.					

4.8.4.15.5	1200mm x 1200mm wide awning consist of a clear ribbed polycarbonate board of 99% UV protection fixed to and incl.aluminium brackets	No.					
4.8.4.15.6	1200mm x 1200mm wide awning consist of a bronze tinted multiwall board of 99% UV protection fixed to and incl. aluminium brackets	No.					
4.8.4.15.7	1200mm x 1500mm wide awning consist of a clear ribbed polycarbonate board of 99% UV protection fixed to and incl. aluminium brackets	No.					
4.8.4.15.8	1200mm x 1500mm wide awning consist of a bronze tinted multiwall board of 99% UV protection fixed to and incl. aluminium brackets	No.					
4.8.4.15.9	1500mm x 1500mm wide awning consist of a clear ribbed polycarbonate board of 99% UV protection fixed to and incl. aluminium brackets	No.					
4.8.4.15.10	1500mm x 1500mm wide awning consist of a bronze tinted multiwall board of 99% UV protection fixed to incl.aluminium brackets	No.					
4.9	EAVES COVERINGS						
4.9.1	Supply and install 4mm thick flat sheet soffit lining	m²					
4.9.2	Supply and install 6mm thick flat sheet soffit lining.	m²					
4.10	VALLEY LININGS						
4.10.1	Supply and install 6mm thick aluminium valley lining with riveted and soldered joints, including all required laps, fittings, etc,	m²					
4.10.2	Supply and install 0.6mm thick aluminium valley lining	m²					
4.11	CARPORTS AND SHADEPORTS						
4.11.1	Shadeport suitable for high wind environments comprising of UV ultrablock shade cloth covering on hot dipped galvanised steel structure members, including foundations, etc., installed complete						
4.11.1.1	Shadeport for single car	No.					
4.11.1.2	Shadeport for two cars	No.					
4.11.1.3	Shadeport for three cars	No.					
4.11.2	Carport suitable for high wind environments comprising 0.5mm galvanised steel IBR profile covering on hot dipped galvanised steel structure members, including foundations, etc., installed complete						
4.11.2.1	Carport for single car	No.					
4.11.2.2	Carport for two cars	No.					
4.11.2.3	Carport for three cars	No.					
4.11.3	Carport suitable for high wind environments comprising 0.5mm galvanised steel IBR profile embossed covering on hot dipped galvanised steel structure members, including foundations, etc., installed complete (as per Architects, drawings, specifications, instructions) Roofing colour to be Chromadek or equivalent: Charcoal Grey / Dark Dolphin / Dove Grey. Structure colour to be Battleship grey.						
4.11.3.1	Carport for single car	No.					
4.11.3.2	Carport for two cars	No.					
4.11.3.3	Carport for three cars	No.					

4.11.4	Carport suitable for high wind environments comprising 0.5m zinkalume IBR profile embossed covering on hot dipped galvanised steel structure members, including foundations, etc., installed complete						
4.11.4.1	Carport for single car	No.					
4.11.4.2	Carport for two cars	No.					
4.11.4.3	Carport for three cars	No.					
5	BILL NO. 5						
	CARPENTRY AND JOINERY						
	(CPAP WORK GROUP 126 UNLESS OTHERWISE STATED)						
	PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						
	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - carting all materials to work area to maximum 4 storeys high, whether internal or external. Prefabricated roof trusses, etc. Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. All exposed timber to be treated with preservative to combat fungus as prescribed by the Forestry Act 1968 (Act 72 of 1968). Plate Nailed Timber Roof Truss Construction etc. If any doubt exists as to the location, extent, specification or fixing requirements of the roof it is to be addressed with the Quantity Surveyor immediately as no claims for such doubt will then be entertained and prices will be deemed to be inclusive of complete and functional installation and in line with engineering standards and requirements as well the architects and engineers concept design, features, finishes and all other criteria indicated on the drawings. Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences. Fixing: Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. The term "planted on" shall mean the nailing of one timber member to another. The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with heads of screws sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted.						
5.1	STRUCTURAL TIMBER ROOFS, ETC.						
5.1.1	Sawn softwood grade 5:						
5.1.1.1	38 x 38mm Hangers fixed to brickwork	m					
5.1.1.2	38 x 38mm Battens	m					
5.1.1.3	38mm x 50mm Battens	m					
5.1.1.4	50mm x 50mm Battens	m					
5.1.1.5	38 x 114mm Wall plates including bed and level in cement mortar	m					

5.1.1.6	38 x 114mm Longitudinal bracing	m					
5.1.1.7	38 x 114mm Cleats in short lengths	m					
5.1.1.8	38 x 114mm Wall plates	m					
5.1.1.9	38x 114mm Ceiling joists in lengths not exceeding 2.4m (38 x 114mm)	m					
5.1.1.10	38x114mm Ceiling joists in lengths exceeding 2.4m and not exceeding 3.9m (38 x 114mm)	m					
5.1.1.11	38 x 114mm Rafters in lengths not exceeding 2.4m	m					
5.1.1.12	38 x 114mm Rafters in lengths exceeding 2.4m and not exceeding 3.9m	m					
5.1.1.13	38 x 114mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m	m					
5.1.1.14	38 x 114mm Rafters in lengths exceeding 6.6m	m					
5.1.1.15	50 x 114mm Rafters in lengths exceeding 2.4m and not exceeding 3.9m	m					
5.1.1.16	50 x 114mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m	m					
5.1.1.17	50 x 114mm Rafters in lengths exceeding 6.6m	m					
5.1.1.18	50 x 114mm Rafters in lengths not exceeding 2.4m	m					
5.1.1.19	50 x 150mm Rafters in lengths exceeding 2.4m and not exceeding 3.9m	m					
5.1.1.20	50 x 150mm Rafters in lengths exceeding 3.9m and not exceeding 6.6m	m					
5.1.1.21	50 x 150mm Rafters in lengths exceeding 6.6m	m					
5.1.1.22	38 x 152mm Rafters in lengths not exceeding 2.4m	m					
5.1.1.23	38 x 152mm Rafters in lengths exceeding 2,4m and not exceeding 3,9m	m					
5.1.1.24	38 x 152mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m					
5.1.1.25	38 x 152mm Rafters in lengths exceeding 6,6m	m					
5.1.1.26	38 x 228mm Rafters in lengths not exceeding 2,4m	m					
5.1.1.27	38 x 228mm Rafters in lengths exceeding 2,4m and not exceeding 3,9m	m					
5.1.1.28	38 x 228mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m					
5.1.1.29	38 x 228mm Rafters in lengths exceeding 6,6m	m					
5.1.1.30	230 x 22mm valley board	m					
5.1.1.31	38 76mm valley bearers	m					
5.1.1.32	19 x 38mm eave tilting battens	m					
5.1.1.33	50 x 76mm Purlins	m					
5.1.1.34	50 x 76mm Cross bracing	m					
5.1.1.35	38 x 50mm thick tilting fillet	m					
5.1.1.36	38 x 38mm thick tilt batten	m					
5.1.1.37	38 x 38mm thick brandering	m					
5.1.1.38	38 x 114mm thick tie beam	m					
5.1.1.39	38 x 152mm thick tie beam	m					
5.1.1.40	50 x 152mm thick tie beam	m					
5.1.1.41	38 x 228mm thick tie beam	m					

5.1.1.42	38 x 114mm thick jack rafters	m					
5.1.1.43	38 x 152mm thick hip/ valley rafters	m					
5.1.1.44	38 x 114mm thick sprockets	m					
5.1.2	Plate Nailed Timber Roof Truss Construction, etc. Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architects/engineers and /or taken on site before design or fabrication commences						
5.1.2.1	Truss type howe not exceeding 2.4m in span and approximately 2m high overall	No.					
5.1.2.2	Truss type howe exceeding 2.4m not exceeding 3.9m in span and approximately 2m high overall	No.					
5.1.2.3	Truss type howe exceeding 3.9m not exceeding 6.6m in span wide and approximately 2m high overall	No.					
5.1.2.4	Truss type howe exceeding 6.6m in span and approximately 2m high overall	No.					
5.1.2.5	Truss type howe not exceeding 2.4m in span and approximately 4m high overall	No.					
5.1.2.6	Truss type howe exceeding 2.4m not exceeding 3.9m in span and approximately 4m high overall	No.					
5.1.2.7	Truss type howe exceeding 3.9m not exceeding 6.6m in span wide and approximately 4m high overall	No.					
5.1.2.8	Truss type howe exceeding 6.6m in span and approximately 4m high overall	No.					
5.1.2.9	Truss type howe exceeding 2.4m not exceeding 3.9m in span and approximately 6m high overall	No.					
5.1.2.10	Truss type howe exceeding 3.9m not exceeding 6.6m in span wide and approximately 6m high overall	No.					
5.1.2.11	Truss type howe exceeding 6.6m in span and approximately 6m high overall	No.					
5.1.2.12	Truss type fink not exceeding 2.4m in span and approximately 2m high overall	No.					
5.1.2.13	Truss type fink exceeding 2.4m not exceeding 3.9m in span and approximately 2m high overall	No.					
5.1.2.14	Truss type fink exceeding 3.9m not exceeding 6.6m in span wide and approximately 2m high overall	No.					
5.1.2.15	Truss type fink exceeding 6.6m in span and approximately 2m high overall	No.					
5.1.2.16	Truss type fink not exceeding 2.4m in span and approximately 4m high overall	No.					
5.1.2.17	Truss type fink exceeding 2.4m not exceeding 3.9m in span and approximately 4m high overall	No.					
5.1.2.18	Truss type fink exceeding 3.9m not exceeding 6.6m in span wide and approximately 4m high overall	No.					
5.1.2.19	Truss type fink exceeding 6.6m in span and approximately 4m high overall	No.					
5.1.2.20	Truss type fink not exceeding 2.4m in span and approximately 6m high overall	No.					

5.1.2.21	Truss type fink exceeding 2.4m not exceeding 3.9m in span and approximately 6m high overall	No.					
5.1.2.22	Truss type fink exceeding 3.9m not exceeding 6.6m in span wide and approximately 6m high overall	No.					
5.1.2.23	Truss type fink exceeding 6.6m in span and approximately 6m high overall	No.					
5.1.3	Wrought softwood timber rafters including teco brackets fixed with 2M12 chemset bolts into brickwork						
5.1.3.1	228 x 50mm timber rafters in lengths exceeding 3.9m and not exceeding 6,6m at 1000mm c/c	m					
5.1.3.2	228 x 50mm timber rafters in lengths exceeding 6,6m at 1000mm c/c	m					
5.1.4	Wrought laminated Saligna:						
5.1.4.1	38 x 225mm Bolted beams, pergola beams, etc.	m					
5.1.4.2	50 x 178mm Bolted beams, pergola beams, etc.	m					
5.1.4.3	50 x 222mm Bolted beams, pergola beams, etc.	m					
5.1.4.4	70 x 222mm Bolted beams, pergola beams, etc.	m					
5.1.4.5	70 x 297mm Bolted beams, pergola beams, etc.	m					
5.1.4.6	76 x 333mm Bolted beams, pergola beams, etc.	m					
5.1.4.7	89 x 400mm Bolted beams, pergola beams, etc.	m					
5.1.4.8	114 x 422mm Bolted beams, pergola beams, etc.	m					
5.1.4.9	114 x 533mm Bolted beams, pergola beams, etc.	m					
5.1.5	POSTS Wrought meranti:						
5.1.5.1	100 x 100 x Column or post 2,4m long with 15mm chamfer on each edge stopped 200mm from both ends, including boring for 30mm diameter dowel (dowel elsewhere measured) in both ends	No.					
5.2	ROOF SUNDRIES						
5.2.1	Wrot faces on sawn timbers	m²					
5.2.2	Galvanized steel framing anchor hurricane clips for the connection of structural timber members at right-angles to each other. With the design load per pair to be min 1.6kN two way hurricane clips	No.					
5.2.3	63,5mm diameter galvanized split ring timber connector with M12 hole EN 10088-2 certified split ring timber connector including grooves in timber	No.					
5.2.4	4mm Diameter roof tie 2m girth bent double, with one end cast into concrete and other end fixed to timber	No.					
5.2.5	30 x 1,2mm Cramp 325mm long with one end fixed to timber and other end built into brickwork	No.					
5.2.6	32 x 1,2mm Galvanised hoop iron roof tie 600mm girth with each end fixed to timber	No.					
5.2.7	M12 Galvanised roof bolts	No.					
5.2.8	38x 1.6mm 90 degree galvanised truss hanger bracket including fixing, bolts, screws, plugs, etc., complete	No.					
5.2.9	40 x 1.6mm 90 degree galvanised truss hanger bracket including fixing, bolts, screws, plugs, etc., complete	No.					
5.2.10	50 x 1.6mm 90 degree galvanised truss hanger bracket including fixing, bolts, screws, plugs, etc., complete	No.					
5.2.11	55 x 1.6mm 90 degree galvanised truss hanger bracket including fixing, bolts, screws, plugs, etc., complete	No.					
5.3	EAVES, VERGES, ETC.						
5.3.1	Wrought meranti:						
5.3.1.1	20 x 250 mm Fascias and barge boards	m					

5.3.1.2	22 x 152mm Fascias and barge boards	m					
5.3.1.3	22 x 225mm Fascias and barge boards	m					
5.3.1.4	22 x 300mm Fascias and barge boards	m					
5.3.1.5	Eaves soffit covering of 22 x 69mm tongue and groove strips fixed to underside of and including 38 x 38mm battens at 400mm centres	m²					
5.3.2	Wrought softwood:						
5.3.2.1	20 x 250mm Fascias and barge boards	m					
5.3.2.2	22 x 152mm Fascias and barge boards	m					
5.3.2.3	22 x 225mm Fascias and barge boards	m					
5.3.2.4	22 x 300mm Fascias and barge boards	m					
5.3.2.5	Eaves soffit covering of 22 x 69mm tongue and groove strips fixed to underside of and including 38 x 38mm battens at 400mm centres	m²					
6	BILL NO. 6						
	STRUCTURAL STEELWORK						
	(CPAP WORK GROUP 134 UNLESS OTHERWISE STATED)						
	PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						
	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - carting all materials to work area to maximum 4 storeys high, whether internal or external. Descriptions: Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. 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 L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete. Structural Steelwork All structural Steelwork is to be Grade S355JR steel and is to comply with the requirements of SANS 1431. All exposed structural steel is to be hot-dipped galvanised. All galvanising to comply with SANS 121, SANS 14713. All bolts are to be Electro-plated Grade 8.8 bolts and all bolted connection are to comply with the requirements of SANS 10162. All welds shall conform to SANS 10167 and 044. Specifications (welding code AWS D1.1). All material and workmanship to comply with SANS 1200 and National Building Regulations.						
6.1	STEEL PURLINS, GIRTS, BRACING, ETC						
6.1.1	Purlins and girts, bolted to steel						
6.1.1.1	75 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.2	100 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.3	100 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					

6.1.1.4	125 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.5	125 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.6	125 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.7	150 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.8	150 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.9	150 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.10	150 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	t					
6.1.1.11	175 x 50 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.12	175 x 65 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.13	175 x 65 x 20 x 3mm Thick cold-formed lipped channel purlins	t					
6.1.1.14	175 x 75 x 20 x 2,5mm Thick cold-formed lipped channel purlins	t					
6.1.1.15	175 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	t					
6.1.1.16	225 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	t					
6.1.1.17	250 x 75 x 20 x 3mm Thick cold-formed lipped channel purlins	t					
6.1.1.18	75 x 40 x 20 x 2,5mm Thick cold-formed lipped channel girts	t					
6.1.1.19	100 x 50 x 20 x 3mm Thick cold-formed lipped channel girts	t					
6.1.1.20	120 x 60 x 20 x 3,5mm Thick cold-formed lipped channel girts	t					
6.1.1.21	150 x 75 x 20 x 4mm Thick cold-formed lipped channel girts	t					
6.1.1.22	Angle purlins	t					
6.1.1.23	Angle girts	t					
6.1.2	Welded bracing, anti-sag rails, etc with flat connection plates, bolted to steel						
6.1.2.1	Angle bracing	t					
6.1.2.2	Angle anti-sag rails	t					
6.1.2.3	Round anti-sag rods with threaded ends, including nuts and washers	t					
6.1.2.4	Round hollow section bracing	t					
6.1.3	Welded box gutter bearers with flat cleats, bolted to steel						
6.1.3.1	Angle longitudinal bearers	t					
6.1.3.2	Angle cross bearers	t					
6.2	STEEL TRUSSES, ETC .						
6.2.1	Welded roof trusses of angle section rails, struts, braces, cleats, girders, etc and flat section bearer, gusset and connection plates bolted to steel						
6.2.1.1	IPE I-section	t					
6.2.1.2	I-section	t					
6.2.1.3	H-section	t					
6.2.1.4	CHS struts	t					
6.2.1.5	L-section	t					
6.2.2	Cleats and plates						

6.2.2.1	8mm Thick welded plate	m²					
6.2.2.2	10mm Thick welded plate	m²					
6.2.2.3	12mm Thick welded plate	m²					
6.2.2.4	16mm Thick welded plate	m²					
6.2.2.5	20mm Thick welded plate	m²					
6.2.2.6	Close end of CHS pipes	No.					
6.2.3	Steel lattice girder						
6.2.3.1	Angle section girders	t					
6.2.3.2	L-section	t					
6.2.4	Gable end truss						
6.2.4.1	Angle sections	t					
6.2.5	Bolts to trusses etc.						
6.2.5.1	M10 Grade 4.8 bolt not exceeding 150mm length	No.					
6.2.5.2	M12 Grade 4.8 bolt not exceeding 150mm length	No.					
6.2.5.3	M16 Grade 8.8 bolt not exceeding 150mm length	No.					
6.2.5.4	M20 Grade 8.8 bolt not exceeding 150mm length	No.					
6.2.5.5	M24 Grade 8.8 bolt not exceeding 150mm length	No.					
6.2.5.6	M10 Anchor bolts	kg					
6.2.5.7	M12 Anchor bolts	kg					
6.2.5.8	M16 Anchor bolts	kg					
6.2.5.9	M20 Anchor bolts	kg					
6.2.5.10	M24 Anchor bolts	kg					
6.2.5.11	M30 Anchor bolts	kg					
6.2.5.12	24mm Diameter, 600mm long hot dip galvanised holding down bolts (4 no bolts) including 100 x 100 x 10mm washer plates and 400 x 400 x 20mm thick plate.	No.					
6.3	STEEL HOLLOW SECTIONS						
6.3.1	Square hollow sections, complete						
6.3.1.1	Square hollow sections	t					
6.3.2	Rectangular hollow sections, complete						
6.3.2.1	Rectangular hollow sections	t					
7	BILL NO. 7						
	PLASTERING						
	(CPAP WORK GROUP 142 UNLESS OTHERWISE STATED)						
	PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						

	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - work both inside and outside of existing buildings - carting all materials to work area to maximum 4 storeys high, whether internal or external - cleaning up of work area upon completion - protecting of existing premises - work in small quantities.						
	Preparation of surfaces: Surfaces shall be dry and clean, free of dust, sand, grit and flaking particles, laitance and loose matter, contaminants such as oil, grease, etc. Surfaces shall have a moisture content not exceeding 4%. All free standing water to be removed prior to application of primers or compounds. Absorbent surfaces to be thoroughly pre-soaked in fresh water. Oil, grease, animal fats, etc. to be removed with suitable 'Ivory Chemicals' product to be applied in strict accordance with the manufacturer's instructions. Once clean, surfaces to be profiled mechanically (scrabbling, blasting, scarifying, chipping or grinding) or by means of acid etching, one part 'Ivory Concrete Etchant' thinned with two parts water applied at the rate of 2m ² /1 litre in strict accordance with the manufacturer's instructions. Generally substrate surfaces to have good wood float, steel trowel or power floated finish conforming in evenness and level to required tolerance with minimum compressive strength of 20MPa or above 25 N/mm ² compressive strength. Screeded surfaces to be minimum 30mm thick. Expansion joints in Granolithic screed finish to be approved polysulphide sealant, laid at 5m ² apart in strict accordance with manufacturer's specifications. Joints The rates for screed shall include joints into panels (4m x 4m maximum) and over joint in the slab/surface bed below. Joints in screed shall penetrate at least halfway through the thickness of the topping.						
7.1	SCREEDS						
7.1.1	1:2 Cement plaster screeds, steel trowelled on floors and slabs to fall and current outlets						
7.1.1.1	Not exceeding 20mm thick	m ²					
7.1.1.2	Exceeding 20mm but not 40mm thick	m ²					
7.1.1.3	Exceeding 40mm but not 60mm thick	m ²					
7.1.1.4	Exceeding 60mm but not 80mm thick	m ²					
7.1.1.5	Exceeding 80mm thick	m ²					
7.1.1.6	30 x 30mm Triangular fillet	m ²					
7.1.1.7	50 x 50mm Triangular fillet	m ²					
7.1.2	1:2 Cement plaster screeds, wood floated on floors and slabs to fall and current outlets						
7.1.2.1	Not exceeding 20mm thick	m ²					
7.1.2.2	Exceeding 20mm but not 40mm thick	m ²					
7.1.2.3	Exceeding 40mm but not 60mm thick	m ²					
7.1.2.4	Exceeding 60mm but not 80mm thick	m ²					
7.1.2.5	Exceeding 80mm thick	m ²					
7.1.2.6	30 x 30mm Triangular fillet	m					
7.1.2.7	50 x 50mm Triangular fillet	m					
7.1.3	1:3 Cement plaster screeds, steel trowelled on floors and slabs to fall and current outlets						

7.1.3.1	Not exceeding 20mm thick	m ²					
7.1.3.2	Exceeding 20mm but not 40mm thick	m ²					
7.1.3.3	Exceeding 40mm but not 60mm thick	m ²					
7.1.3.4	Exceeding 60mm but not 80mm thick	m ²					
7.1.3.5	Exceeding 80mm thick	m ²					
7.1.3.6	30 x 30mm Triangular fillet	m					
7.1.3.7	50 x 50mm Triangular fillet	m					
7.1.4	1:3 Cement plaster screeds, wood floated on floors and slabs to fall and current outlets						
7.1.4.1	Not exceeding 20mm thick	m ²					
7.1.4.2	Exceeding 20mm but not 40mm thick	m ²					
7.1.4.3	Exceeding 40mm but not 60mm thick	m ²					
7.1.4.4	Exceeding 60mm but not 80mm thick	m ²					
7.1.4.5	Exceeding 80mm thick	m ²					
7.1.4.6	30 x 30mm Triangular fillet	m					
7.1.4.7	50 x 50mm Triangular fillet	m					
7.2	UNREINFORCED CONCRETE						
7.2.1	PURPOSE MADE PRECAST PLINTHS Design, manufacture, deliver and place precast plinths based on site requirements						
7.2.1.1	30MPa/20mm concrete in precast plinth including placing, vibrating and curing	m ³					
7.2.1.2	Extra over ditto for chamfers / rebates / drip to edges of plinths	m					
7.2.1.3	Extra over ditto for smooth surface finish to plinths	m ²					
7.2.2	30MPa/9mm Insitu concrete:						
7.2.2.1	Supply and lay ready mix concrete including formwork	m ³					
7.2.2.2	Extra over for Sikagrout GP or equivalent to manufacturers specifications	m					
7.2.2.3	Extra over mesh type 193	m ²					
7.2.2.4	Extra over mesh type 245	m ²					
8	BILL NO. 8						
	PLUMBING AND DRAINAGE						
	(CPAP WORK GROUP 146 UNLESS OTHERWISE STATED) PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						

	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - work both inside and outside of existing buildings - carting all materials to work area to maximum 4 storeys high, whether internal or external - cleaning up of work area upon completion - protecting of existing premises - work in small quantities.						
	<p>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. 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.</p> <p>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.</p>						
8.1	RAINWATER DISPOSAL (GUTTERS)						
8.1.1	<p>Supply, installation, welding, soldering, grinding, erection, testing, and commissioning of gravity drainage installation including T-pieces, elbows, reducers, cutting, jointing, pipe couplings, piping, fittings, cleaning, bracketing, hangers, fixing, supports, as per manufacturers guides: uPVC gutters and downpipes:</p> <p>Unplasticised polyvinyl chloride (upvc) half round profile gutters with concealed brackets. All gutter systems to have 10 year Guarantee, SAPPMA manufacturing accredited and fully SABS approval for:</p>						
8.1.1.1	125mm x 87mm Half-round eaves gutters including brackets fixed to fascias, brickwork or concrete	m					
8.1.1.2	Extra over eaves gutter for stopped end	No.					
8.1.1.3	Extra over eaves gutter for union clip	No.					
8.1.1.4	Extra over eaves gutter for 90 degrees angle	No.					
8.1.1.5	Extra over eaves gutter for 135 degree angle	No.					
8.1.1.6	Extra over eaves gutter for outlet to 80mm diameter rainwater downpipe	No.					
8.1.1.7	80mm diameter rainwater downpipe fixed to wall with brackets, including sealing joints	m					
8.1.1.8	Extra over 80mm diameter rainwater downpipe for socket	No.					
8.1.1.9	Extra over 80mm diameter rainwater downpipe for shoe	No.					
8.1.1.10	Extra over 80mm diameter rainwater downpipe for bend	No.					
8.1.1.11	Extra over 80mm diameter rainwater downpipe for spreader	No.					
8.1.2	Rainwater Gutters and Downpipes: 'Marley' uPVC or equivalent:						
8.1.2.1	100mm "Vynadeep" or equivalent half round eaves gutters	m					
8.1.2.2	125 x 75mm Streamline eaves gutters	m					
8.1.2.3	150mm Eaves gutters	m					
8.1.2.4	80mm Diameter rainwater pipes fixed to wall with brackets, including sealing joints	m					
8.1.2.5	100mm Diameter rainwater pipe fixed to wall with brackets, including sealing joints	m					
8.1.2.6	Extra over eaves gutter for stopped end	No.					

8.1.2.7	Extra over eaves gutter for outlet for 100mm diameter rainwater pipe	No.					
8.1.2.8	Extra over eaves gutter for 90 degrees angles	No.					
8.1.2.9	Extra over rainwater pipe for shoe	No.					
8.1.2.10	Extra over rainwater pipe for bend	No.					
8.1.3	UPVC rectangular profiled gutter system						
8.1.3.1	Unplasticised polyvinyl chloride (upvc) 110mm wide x 75mm deep rectangular profile gutters with concealed brackets and elastomer sealing system and connections. All gutter systems to have 10 year Guarantee, SAPPMA manufacturing accredited and fully SABS approval.	m					
8.1.3.2	Extra over eaves gutter for 90 degrees angle	No.					
8.1.3.3	Extra over eaves gutter for 135 degree angle	No.					
8.1.3.4	Extra over eaves gutter for stopped end	No.					
8.1.3.5	Extra over eaves gutter for union clip	No.					
8.1.3.6	Extra over eaves gutter for outlet to 80mm diameter rainwater downpipe	No.					
8.2	RAINWATER DISPOSAL (DOWNPIPES)						
8.2.1	Supply, installation, welding, soldering, grinding, erection, testing, and commissioning of the gravity drainage installation including T-pieces, elbows, reducers, cutting, jointing, pipe couplings, piping, fittings, cleaning, bracketing, hangers, fixing, supports, as per manufacturers guides: uPVC gutters and downpipes: Unplasticised polyvinyl chloride (upvc) half round profile gutters with concealed brackets. All gutter systems to have 10 year Guarantee, SAPPMA manufacturing accredited and fully SABS approval for:						
8.2.1.1	80mm diameter rainwater downpipe fixed to wall with brackets, including sealing joints	m					
8.2.1.2	Extra over 80mm diameter rainwater downpipe for socket	No.					
8.2.1.3	Extra over 80mm diameter rainwater downpipe for shoe	No.					
8.2.1.4	Extra over 80mm diameter rainwater downpipe for bend	No.					
8.2.1.5	Extra over 80mm diameter rainwater downpipe for spreader	No.					
8.2.1.6	Extra over downpipes for purpose made 980 mm swan neck pipe	No.					
8.2.1.7	90mm Diameter rainwater pipe fixed to wall with brackets, including sealing joints	m					
8.2.1.8	Extra over 90mm diameter rainwater downpipe for socket	No.					
8.2.1.9	Extra over 90mm diameter rainwater downpipe for shoe	No.					
8.2.1.10	Extra over 90mm diameter rainwater downpipe for bend	No.					
8.2.1.11	Extra over 90mm diameter rainwater downpipe for spreader	No.					
8.2.1.12	Extra over downpipes for purpose made 980 mm swan neck pipe	No.					
8.2.1.13	100mm Diameter rainwater pipe fixed to wall with brackets, including sealing joints	m					
8.2.1.14	Extra over 100mm diameter rainwater downpipe for socket	No.					
8.2.1.15	Extra over 100mm diameter rainwater downpipe for shoe	No.					
8.2.1.16	Extra over 100mm diameter rainwater downpipe for bend	No.					
8.2.1.17	Extra over 100mm diameter rainwater downpipe for spreader	No.					
8.2.1.18	Extra over downpipes for purpose made 980 mm swan neck pipe	No.					

8.2.1.19	110mm Diameter rainwater pipe fixed to wall with brackets, including sealing joints	m					
8.2.1.20	Extra over 110mm diameter rainwater downpipe for socket	No.					
8.2.1.21	Extra over 110mm diameter rainwater downpipe for shoe	No.					
8.2.1.22	Extra over 110mm diameter rainwater downpipe for bend	No.					
8.2.1.23	Extra over 110mm diameter rainwater downpipe for spreader	No.					
8.2.1.24	Extra over downpipes for purpose made 980 mm swan neck pipe	No.					
8.2.1.25	160mm Diameter rainwater pipe fixed to wall with brackets, including sealing joints	m					
8.2.1.26	Extra over 160mm diameter rainwater downpipe for socket	No.					
8.2.1.27	Extra over 160mm diameter rainwater downpipe for shoe	No.					
8.2.1.28	Extra over 160mm diameter rainwater downpipe for bend	No.					
8.2.1.29	Extra over 160mm diameter rainwater downpipe for spreader	No.					
8.2.1.30	Extra over downpipes for purpose made 980 mm swan neck pipe	No.					
8.2.1.31	75mm x 75mm square rainwater downpipe fixed to wall with brackets, including sealing joints	m					
8.2.1.32	Extra over 75mm x 75mm square rainwater downpipe for socket	No.					
8.2.1.33	Extra over 75mm x 75mm square rainwater downpipe for shoe	No.					
8.2.1.34	Extra over 75mm x 75mm square rainwater downpipe for bend	No.					
8.2.1.35	Extra over 75mm square rainwater downpipe for spreader	No.					
8.2.1.36	Extra over downpipes for purpose made 980 mm swan neck pipe	No.					
8.3	Continuous and seamless corrosion resistant type 3004 grade pre painted aluminium min 0,7mm gauge . All gutter systems to have 10 year Guarantee with SABS approval.						
8.3.1	100 x 100mm 'Ogee' or equivalent gutter including brackets fixed to fibre cement fascias	m					
8.3.2	125 x 150mm 'Ogee' or equivalent gutter including brackets fixed to fibre cement fascias	m					
8.3.3	Extra over 'Ogee' or equivalent eaves gutter for outlet for 80mm diameter pipe	No.					
8.3.4	Extra over 'Ogee' or equivalent eaves gutter for stopped angle	No.					
8.3.5	Extra over 'Ogee' or equivalent eaves gutter for bend	No.					
8.3.6	Extra over rainwater pipe for eaves or plinth offset 600mm projection	No.					
8.4	Aluminium Domestic "OG type" or equivalent gutters and downpipes with aluminium brackets fixed as per manufacturers specifications.						
8.4.1	125 x 85 x 0.6mm Seamless aluminium gutters with aluminium alloy brackets	m					
8.4.2	Extra over aluminium gutters for stopped ends	No.					
8.4.3	Extra over aluminium gutters for 76 x 50mm outlets	No.					
8.4.4	50 x 76mm seamless aluminium fluted rainwater down pipes.	m					
8.4.5	Extra over rainwater pipe for eaves or plinth offset 300mm projection	No.					
8.4.6	Extra over rainwater pipe for shoe	No.					
8.5	3mm Galvanised sheet metal gutter fixed with brackets to timber roof structure (elsewhere measured):						

8.5.1	Box gutters 500mm girth four times bent along length	m					
8.5.2	Extra over eaves gutter for 90 degrees angle	No.					
8.5.3	Extra over eaves gutter for 135 degree angle	No.					
8.5.4	Extra over eaves gutter for stopped end	No.					
8.5.5	Extra over gutter for angle	No.					
8.5.6	Extra over eaves gutter for outlet for 100mm diameter pipe	No.					
8.5.7	Extra over eaves gutter for outlet for 150mm diameter pipe	No.					
8.6	3mm Galvanised sheet metal rainwater pipe including holderbats, brackets, etc:						
8.6.1	100mm Internal diameter pipe	m					
8.6.2	150mm Internal diameter pipe	m					
8.6.3	Extra over 100mm diameter rainwater downpipe for socket	No.					
8.6.4	Extra over 100mm diameter rainwater downpipe for shoe	No.					
8.6.5	Extra over 100mm diameter rainwater downpipe for bend	No.					
8.6.6	150mm Internal diameter pipe	m					
8.6.7	Extra over 150mm diameter rainwater downpipe for socket	No.					
8.6.8	Extra over 150mm rainwater pipe for bend	No.					
8.6.9	Extra over 150mm rainwater pipe for shoe	No.					
8.7	6mm galvanised welded sheet metal gutter fixed with brackets to timber roof structure (elsewhere measured):						
8.7.1	Box gutters 600mm girth three times bent along length including necessary collared and sealed expansion joints (bearers elsewhere)	m					
8.7.2	Box gutters 800mm girth three times bent along length including necessary collared and sealed expansion joints (bearers elsewhere)	m					
8.7.3	Box gutters 900mm girth three times bent along length including necessary collared and sealed expansion joints (bearers elsewhere)	m					
8.8	Fibre cement gutters and rainwater pipes: Fibre cement system used to be water tight, fire resistant, fungus and rodent resistant, acid resistant. SANS 9933 (SABS ISO 9933) compliant						
8.8.1	100mm Diameter gutter	m					
8.8.2	Extra over 100mm eaves gutter for stopped end	No.					
8.8.3	Extra over 100mm eaves gutter for angle	No.					
8.8.4	150mm Diameter gutter	m					
8.8.5	Extra over 150mm eaves gutter for stopped end	No.					
8.8.6	Extra over 100mm eaves gutter for outlet to 75mm downpipe	No.					
8.8.7	Extra over 150mm eaves gutter for outlet to 75mm downpipe	No.					
8.8.8	Extra over 150mm eaves gutter for outlet to 100mm downpipe	No.					
8.8.9	Extra over 150mm eaves gutter for angle	No.					

8.8.10	75mm Diameter socketed rainwater pipes fixed with aluminium alloy downpipe clips including mastic jointing compound to seal downpipe joints	m					
8.8.11	Extra over 75mm diameter rainwater pipe for bend	No.					
8.8.12	Extra over 75mm diameter rainwater pipe for shoe	No.					
8.8.13	100mm Diameter socketed rainwater pipes fixed with aluminium alloy downpipe clips including mastic jointing compound to seal downpipe joints	m					
8.8.14	Extra over 100mm diameter rainwater pipe for bend	No.					
8.8.15	Extra over 100mm diameter rainwater pipe for shoe	No.					
8.9	VENT PIPE SLEEVES						
8.9.1	0.6mm Galvanised sheet steel sleeves with weltd seams for existing roof vent pipes exceeding 100mm and not exceeding 200mm external diameter	m					
8.9.2	PVC sleeves for existing roof vent pipes exceeding 100mm and not exceeding 200mm external diameter	m					
9	BILL NO. 9						
	PAINTWORK						
	(CPAP WORK GROUP 152 UNLESS OTHERWISE STATED)						
	PREAMBLES						
	For preambles refer to "General Preambles for Trades 2017"						
	SUPPLEMENTARY PREAMBLES						
	Rates for items in their respective trades throughout this entire schedule of rates will be deemed to include for the necessary preliminary and general cost (supply and labour for installation of items, unless otherwise specified) in its entirety as it may apply. The tenderer is referred to the pricing assumptions in part C2.1 in this document.						
	The below list is not exhaustive: Prices for all items hereunder are deemed to include for the following: - scaffolding up to 2.5m high - work both inside and outside of existing buildings - carting all materials to work area to maximum 4 storeys high, whether internal or external - cleaning up of work area upon completion - protecting of existing premises - work in small quantities.						
	Approval: No priming and paintwork may be done before approval of all surfaces by the representative/agent. Final coat of paint: The final coat must only be applied after all other work in the contract have been completed and the site is clear and without rubble, etc. unless otherwise instructed. Upon completion the paintwork must be touched up where necessary and all faults repaired. Descriptions: Descriptions will be deemed to include for preparation of all surfaces, including filling, stopping and sanding and primer on nail and screw heads as well as all necessary priming, undercoats and finishing coats as prescribed by the various manufacturers of the specific types of paint in accordance with the specifications all to the satisfaction of the representative/agent.						
	All paintwork including preparatory work to be as per manufacturers specifications						
9.1	PAINTWORK, ETC TO NEW WORK						
9.1.1	Prepare and apply two coats "Abe Silvakote" or equivalent bituminous aluminium paint						
9.1.1.1	On waterproofing to all surfaces including roofs	m²					
9.1.1.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.2	Two coats " Abe Silvakote" or equivalent bituminous aluminium paint						
9.1.2.1	On waterproofing to roofs	m²					

9.1.2.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.3	Two coats "WPC Roofseal Emulsion" or equivalent heavy duty acrylic emulsion paint						
9.1.3.1	On waterproofing to roofs	m²					
9.1.3.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.4	Two coats heavy duty acrylic emulsion paint "WPC Roofseal Emulsion" or equivalent						
9.1.4.1	On waterproofing to roofs	m²					
9.1.4.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.5	Acrylic Primer + "a.b.e proof PU ECO" Waterproofing paint or equivalent						
9.1.5.1	On waterproofing to roofs	m²					
9.1.5.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.6	"WPC Roofcote" Aluminium Insulation or equivalent paint or equivalent						
9.1.6.1	On waterproofing to roofs	m²					
9.1.6.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.7	Roof Paint						
9.1.7.1	Prepare surfaces and apply two coats "Sabre Roof Shield" or equivalent roof paint or equivalent to all types of roof coverings	m²					
9.1.8	Two coats "WPC Roofcote Acrylic" or equivalent						
9.1.8.1	On waterproofing to all surfaces including roofs	m²					
9.1.8.2	On waterproofing to all surfaces excl. roofs	m²					
9.1.8.3	Two coats "WPC Roofcote Aluminium" or equivalent	m²					
9.1.8.4	On waterproofing to all surfaces including roofs	m²					
9.1.8.5	On waterproofing to all surfaces excl. roofs	m²					
9.1.9	Prepare and apply acrylic emulsion metal primer and two coats acrylic roof paint as SABS Specification 940 of semi-matt designation on:						
9.1.9.1	Profiled metal roof sheeting and accessories (measured on flat).	m²					
9.1.10	Prepare and apply acrylic emulsion metal primer and one coat alkyl enamel roof paint as SABS Specification 683 Type B of gloss designation on:						
9.1.10.1	Profiled metal roof sheeting and accessories (measured on flat).	m²					
9.1.11	Prepare and apply acrylic emulsion metal primer and two coats alkyl enamel roof paint as SABS Specification 683 Type B of gloss designation on:						
9.1.11.1	Profiled metal roof sheeting and accessories (measured on flat).	m²					
9.1.12	Two full coats brown epoxy coal tar paint on galvanised steel, each coat 50 micron thick						
9.1.12.1	On gutters	m²					
9.1.13	Apply one coat plaster primer and two coats polyurethane enamel paint:						
9.1.13.1	On gutters	m					
9.1.13.2	On eaves soffits	m²					

9.1.13.3	On corrugated profile roof sheeting	m ²					
9.1.13.4	On fascias and bargeboards	m ²					
9.1.13.5	On downpipes not exceeding 300mm girth	m					
9.1.14	Prepare and apply one coat "Plascon" Woodcare Pre-treatment (code WWP 1), one coat "Plascon" Ultra Varnish thinned 3:1 with min turps (code X33 / X44) and two coats Plascon" Woodcare Ultra Varnish (code X33 / X44) or equivalent						
9.1.14.1	On structural timbers	m ²					
9.1.14.2	On exposed roof timbers	m ²					
9.1.15	One coat alkali resistant primer, one undercoat and two coats alkyd enamel paint in colours which have a value of 7 or less on the Munsell system in accordance with SABS 1091:						
9.1.15.1	On slate roof coverings	m ²					
9.1.16	Wash down thoroughly with degreaser and rinse with water removing all traces of degreaser. Allow to dry and prime with one coat primer and two coats polyurethane enamel paint on steel:						
9.1.16.1	On members of roof trusses	m ²					
9.1.16.2	On exposed roof purlins	m ²					
9.1.17	Creosote to timber						
9.1.17.1	Two coats creosote on sawn roof timbers	m ²					
9.2	PAINTWORK, ETC. TO PREVIOUSLY PAINTED SURFACES						
9.2.1	Extra over for cleaning and all preparatory work required for paintwork to previously painted waterproofing	m ²					
9.2.2	Extra over for cleaning and all preparatory work required for paintwork to previously painted roof coverings	m ²					
9.2.3	Extra over for cleaning and all preparatory work required for paintwork to previously timbers	m ²					
9.3	Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) or equivalent with bristle brush. Rinse thoroughly with tap water until surface is water break-free. Remove rust and mill scale by abrasive blasting to ISO 8501 - 01:1988 - Sa2JJ or by hand/mechanical wire brushing to that of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Zinc Phosphate Primer (UC 207) with an overcoating time of 16 hours and finish with two coats of Synlac 5000 Enamel (SL 5000) or equivalent with 2 hours drying time between coats						
9.3.1	On structural steel elements	m ²					
9.4	Hammerite Direct to Rust Metal Paint or equivalent UV, corrosion and chemical resistant, smooth gloss coating for direct application to correctly prepared ferrous metals and correctly prepared and primed nonferrous metals. Applied to the manufacturer's specifications.						
9.4.1	Profiled metal roof sheeting and accessories (measured on flat).	m ²					

9.5	Clean down, etc, touch up acrylic emulsion metal primer and apply two coats acrylic roof paint as SABS Specification 940 of semimatt designation on:						
9.5.1	Profiled metal roof sheeting and accessories (measured on flat).	m²					
9.6	Clean down, etc, touch up acrylic emulsion primer and apply one coat alkyd enamel roof paint as SABS Specification 683 Type B of gloss designation on:						
9.6.1	Profiled metal roof sheeting and accessories (measured on flat).	m²					
9.7	Clean down, etc, touch up acrylic metal primer and apply two coats alkyd enamel roof paint as SABS Specification 683 Type B of gloss designation on:						
9.7.1	Profiled metal roof sheeting and accessories (measured on flat).	m²					
9.8	EXTRA OVER PRIMING TO ALL SURFACES ETC. WHERE PRIMER IS NOT INCLUDED IN THE SPECIFICATION						
9.8.1	One coat approved bitumen primer to all surfaces.	m²					
9.8.2	One coat Universal Primer on metal	m²					
9.8.3	One coat Universal Primer on concrete	m²					
9.8.4	One coat Universal Primer on timber	m²					