

Item	Description	Unit	Quantity	Rate	Amount
	<p><b><u>BILL NO 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p>Note: Tenderers are advised to study the General Preambles for Trades before pricing this Bill.</p> <p>Unless otherwise stated herein, all items in this Bill shall be deemed to be a fixed price for the duration of this project.</p> <p>-----</p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Building Agreement shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause</p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles/Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles/ Model Preambles and in any supplementary preambles and/or specifications</p> <p><b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b></p> <p>Section A : A recital of the headings of the individual clauses in the aforementioned JBCC Building Agreement</p> <p>Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries</p> <p>Section C : Any special clauses to meet the particular circumstances of the project</p> <p><b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b></p> <p><b>Interpretation (A1-A7)</b></p> <p>1 Clause 1.0 - Definitions and interpretation</p> <p>The following changes/additions are made to the definitions: Compensatory interest: Is hereby amended by the substitution of the words "practical completion" by the words "final completion"</p>				

	The following new clauses are hereby added:		
	<p>1.2.6 The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained</p> <p>Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p>1.2.7 The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice</p> <p>1.2.8 If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <p>1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement</p> <p>2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons</p> <p>3. The contractor shall not alter its composition or legal status without the prior written consent of the employer</p>		
2	Clause 2.0 - Law, regulations and notices	Item	1
3	Clause 3.0 - Offer and acceptance	Item	1
4	Clause 4.0 - Cession and assignment	Item	1
5	<p>Clause 5.0 - Documents</p> <p>Clause 5.4 is hereby deleted and replaced with the following:</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any</p> <p>The following is added to clause 5.6: All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically</p>		
6	Clause 6.0 - Employer's agents	Item	1

7	<p>Clause 7.0 - Design responsibility The following new clause is hereby added: 7.4 Notwithstanding the provisions of 7.1, the contractor shall ensure that every such nominated or selected subcontractor shall simultaneously with the signing of the relevant nominated or selected subcontract sign and deliver to the employer a Design Materials and Workmanship Warranty and Undertaking in favour of the employer or a Materials and Workmanship Undertaking strictly in accordance with the instructions or provisions contained in the tender documents for the nominated or selected subcontract works</p>	Item	1		
	<b>Insurances and securities (A8-A11)</b>				
8	Clause 8.0 - Works risk	Item	1		
9	Clause 9.0 - Indemnities	Item	1		
10	Clause 10.0 - Insurances	Item	1		
11	<p>Clause 11.0 - Securities Clause 11.5 is hereby deleted and no guarantee for payment will thus be provided by the employer The following new clause is hereby added: 11.11 In the event that the value of the works (inclusive of tax but excluding adjustments in terms of contract price adjustments were to increase during the course of the contract by an amount of fifteen percent (15%) or more of the contract sum, the contractor shall, upon written request from the principal agent, immediately arrange to have the guarantee for construction (guaranteed sum) increased accordingly, the verified cost of which shall be added to the contract value</p>	Item	1		
	<b>Execution (A12 - A17)</b>				
12	<p>Clause 12.0 - Obligations of the parties</p> <p>The following is added to clause 12.2.18: The contractor shall provide, maintain and remove on practical completion air-conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected</p> <p>The following new clause is hereby added:</p> <p>12.2.23 The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p>				
13	Clause 13.0 - Setting out	Item	1		
14	Clause 14.0 - Nominated subcontractors	Item	1		
15	Clause 15.0 - Selected subcontractors	Item	1		
16	Clause 16.0 - Direct contractors				

	Details of direct contractors: - ICT equipment The following new clauses are hereby added:			
	16.1.4. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials			
	16.1.5. Allow the use of personnel welfare facilities, where provided			
	16.1.6 Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation			
17	16.1.7 Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site	Item	1	
18	Clause 17.0 - Contract instructions The following new clause is hereby added: 17.6 Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor	Item	1	
	<b>Completion (A18 - A24)</b>			
19	Clause 18.0 - Interim completion	N/A		
20	Clause 19.0 - Practical completion	Item	1	
21	Clause 20.0 - Completion in sections Refer to scope of works and contract data for details of sections	Item	1	
22	Clause 21.0 - Defects liability period and final completion	Item	1	
23	Clause 22.0 - Latent defects liability period	Item	1	
24	Clause 23.0 - Revision of the date for practical completion The following new clause is hereby added before clause 23.1: 23.A The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8]	Item	1	
25	Clause 24.0 - Penalty for late or non-completion	Item	1	
	<b>Payment (A25 - A27)</b>			
26	Clause 25.0 - Payment			
	Clause 25.10 is hereby amended by the substitution of the words "fourteen (14) calendar days" in the first line by the words "thirty (30) calendar days"			
	The following new clause is hereby added: 25.18 Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing	Item	1	
27	Clause 26.0 - Adjustment of the contract value and final account			

	Clause 26.9.5 is hereby deleted and replaced with the following: All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor			
	The following new clauses are hereby added: 26.14 There is a possibility that phase 3 of the works may be omitted from the scope of works, subject to available funding			
	The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission			
	26.15 All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs			
	26.16 The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim	Item	1	
28	Clause 27.0 - Recovery of expense and/or loss	Item	1	
	<b>Suspension and termination (A28 - A29)</b>			
29	Clause 28.0 - Suspension by the contractor	Item	1	
30	Clause 29.0 - Termination	Item	1	
	<b>Dispute resolution (A30)</b>			
31	Clause 30.0 - Dispute resolution	Item	1	
32	Agreement			
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties	Item	1	
33	Contract data			
	Before submission of his tender the contractor is to complete the tenderer's selections in the contract data			
	<b><u>SECTION B: GENERAL PRELIMINARIES</u></b>			
	<b>Definitions and interpretation (B1)</b>			
34	Clause 1.1 - Definitions	Item	1	
35	Clause 1.2 - Interpretation	Item	1	
	<b>Documents (B2)</b>			
36	Clause 2.1 - Checking of documents	Item	1	
37	Clause 2.2 - Provisional bills of quantities	Item	1	
38	Clause 2.3 - Availability of construction information	Item	1	
39	Clause 2.4 - Ordering of materials and goods	Item	1	
	<b>Previous work and adjoining properties (B3)</b>			
40	Clause 3.1 - Previous work - dimensional accuracy	Item	1	

41	Clause 3.2 - Previous work - defects	Item	1		
42	Clause 3.3 - Inspection of adjoining properties	Item	1		
	<b>The site (B4)</b>				
43	Clause 4.1 - Handover of site in stages	Item	1		
44	Clause 4.2 - Enclosure of the works				
	Clause 4.2 is hereby deleted and replaced with the following:				
	The contractor shall enclose the site along the street frontages over a total length of 400m by means of a new galvanised ribbed sheet hoarding, having rib of sheeting horizontal, and 2,0m high with matching gates. Hoardings shall be maintained, repainted periodically, kept clean and free from unauthorised posters, graffiti, etc and finally removed, including making good				
45	Clause 4.3 - Geotechnical and other investigations	Item	1		
46	Clause 4.4 - Encroachments	Item	1		
47	Clause 4.5 - Existing premises occupied	Item	1		
48	Clause 4.6 - Services - known	Item	1		
	<b>Management of contract (B5)</b>				
49	Clause 5.1 - Management of the works	Item	1		
50	Clause 5.2 - Progress meetings	Item	1		
51	Clause 5.3 - Technical meetings	Item	1		
	<b>Samples, shop drawings and manufacturer's instructions (B6)</b>				
52	Clause 6.1 - Samples of materials				
	The following is added to clause 6.1:				
	The principal agent may reject any materials or colours not corresponding with the approved samples. The approved samples shall be kept on site until completion of the works. Should any materials or items specified prove to be either unavailable, in poor supply or likely to cause delay to the works, the contractor shall notify the principal agent in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the contractor not conforming with the terms of this clause will not be entertained or allowed				
53	Clause 6.2 - Workmanship samples	Item	1		
54	Clause 6.3 - Shop drawings	Item	1		
55	Clause 6.4 - Compliance with manufacturer's instructions	Item	1		
	<b>Deposits and fees (B7)</b>				
56	Clause 7.1 - Deposits and fees	Item	1		
	<b>Temporary services (B8)</b>				
57	Clause 8.1 - Water	Item	1		
58	Clause 8.2 - Electricity	Item	1		
59	Clause 8.3 - Ablution and welfare facilities	Item	1		

60	Clause 8.4 - Communication facilities	Item	1		
	<b>Prime cost amounts (B9)</b>				
61	Clause 9.1 - Responsibility for prime cost amounts	Item	1		
	<b>Attendance on subcontractors (B10)</b>				
62	Clause 10.1 - General attendance	Item	1		
63	Clause 10.2 - Special attendance	Item	1		
	<b>General (B11)</b>				
64	Clause 11.1 - Protection of the works	Item	1		
65	Clause 11.2 - Protection/isolation of existing works and works occupied in sections	Item	1		
66	Clause 11.3 - Security of the works	Item	1		
67	Add the following to clause 11.3 The contractor shall provide and maintain twenty-four hour site security and loss control systems all to the satisfaction of the principal agent. It is envisaged that these procedures will incorporate, inter alia, gate control for personnel and vehicles, individual entry permits, regular security patrols and the like	Item	1		
68	Clause 11.4 - Notice before covering work	Item	1		
69	Clause 11.5 - Disturbance	Item	1		
70	Add the following to clause 11.5: All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as the exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever	Item	1		
71	Clause 11.6 - Environmental disturbance				
	Add the following to clause 11.6: The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc				
	The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works				
	The employer has prepared an environmental management plan (EMP) (refer to Annexures for the SHEQ spec). The contractor shall price opposite this item for compliance with all the requirements of such EMP/ SHEQ	Item	1		
72	Clause 11.7 - Works cleaning and clearing	Item	1		
73	Clause 11.8 - Vermin	Item	1		
74	Clause 11.9 - Overhand work	Item	1		
75	Clause 11.10 - Tenant installations	Item	1		

76	Clause 11.11 - Advertising	Item	1		
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>				
	<u>Warranties for materials and workmanship</u>				
77	Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract				
	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so				
	The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor	Item	1		
	<u>Overtime</u>				
78	Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item	1		
	<u>Cooperation of the contractor for cost management</u>				
79	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget	Item	1		
	<u>Overloading</u>				
80	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense	Item	1		
	<u>As-built drawings</u>				
81	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records	Item	1		
	<u>Contract instructions</u>				
82	Contract instructions issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the contractor	Item	1		
	<u>Control of sand, dust, mud, light and noise pollution on site, public spaces, public road, etc</u>				



83	<p>Notwithstanding any further requirements stated elsewhere, the contractor shall be responsible for and take all precautions in controlling all forms of pollution during the construction period due to noise, artificial light, wind-blown sand, dust, deposits of mud etc by whatever means necessary All work shall be executed without unacceptable and unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever The contractor indemnifies the employer against and accepts entire responsibility for any claims, costs, damages and all other loss of whatsoever nature or delays which may arise on the above grounds</p> <p>The contractor shall take every precaution to protect buildings, etc on adjoining sites against damage and shall be held solely responsible for any damage to persons or property caused by inadequate precautions All existing access roads to and from the site shall be cleaned on a daily basis No claims for clearing or carting away any rubbish or superfluous materials, including that of any subcontractor shall be accepted Should the contractor fail to carry out any or all clearing and cleaning, the principal agent will arrange for such clearing and cleaning to be carried out by others and shall recover the cost from the contractor</p>	Item	1		
	<u>Copyright</u>				
84	<p>The ownership of the copyright in and to: all drawings, specifications, models and documents of any nature delivered to the contractor or produced by or on behalf of the contractor in connection with the works; and, the artistic character and/or artistic design of the works, shall remain vested in and/or is hereby assigned to the employer by the contractor</p>	Item	1		
	<u>Confidentiality</u>				
85	<p>As the project is of a highly confidential nature, the contractor shall: treat all drawings, specifications, models and documents of any nature delivered to the contractor or produced by or on behalf of the contractor in connection with the works as being confidential; keep secret and not directly or indirectly disclose or divulge to any person (except insofar as may be necessary in connection with the project) any information contained in the contract documents without the previous written consent of the principal agent; not copy, photograph and/or repeat either wholly or in part any of the contract documents referred to above (except insofar as may be necessary in connection with the project); return to the principal agent all contract documents issued herewith upon submission of the tender; and, upon completion of the works deliver to the principal agent all contract documents of any nature pertaining to the project</p>	Item	0		
	<u>Health and safety</u>				

	Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Annexures for a copy of the relevant SHEQ specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification			
86	The contractor shall: 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Cooperate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification	Item	1	
	<u>Green Building Specification</u>			
87	The employer has prepared a Green Building Specification (refer to Annexures for a copy of the relevant specification). The contractor shall price opposite this item for compliance with all the requirements of the aforementioned specification	Item	1	
	<u>Advertising rights</u>			
88	The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement	Item	1	
	<u>Confidentiality</u>			
89	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer	Item	1	
	<u>Media releases</u>			
90	All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media	Item	1	
	<b>SUMMARY OF CATEGORIES</b>			
	Category : Fixed R..... Category : Value R..... Category : Time R.....			
	<b>Total Carried to Summary</b>			R

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>BILL NO 2</u></b>				
	<b><u>ALTERATIONS</u></b>				
	Note: Tenderers are advised to study the General Preambles for Trades before pricing this Bill.				
	Unless otherwise stated herein, all items in this Bill shall be deemed to be a fixed price for the duration of this contract -----				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<u>General</u>				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He/she shall provide proper protection erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the project manager				
	<b>REMOVAL OF EXISTING WORK</b>				
	<u>Taking down and removing roof covering etc</u>				
1	Corrugated roof sheeting etc	m <sup>2</sup>	50		
2	Gutters and downpipes	m	20		
3	IBR roof sheets	m <sup>2</sup>	50		
4	Rainwater goods and replace with new (e.m)	m <sup>2</sup>	20		
5	Take down and remove fascias and replace with new (e.m)	m <sup>2</sup>	30		
6	Take down and remove insulation and replace with new (e.m)	m <sup>2</sup>	45		
7	Carefully remove existing waterproofing from concrete roof and prepare surfaces for new waterproofing	m <sup>2</sup>	90		
8	Strip existing waterproofing from Box gutters and cartaway off site	m <sup>2</sup>	35		
9	High pressure wash box gutter to remove dirt, debris using a 250bar nozzle pressure	m <sup>2</sup>	75		
	<b>SERVICING AND REPAIRS TO EXISTING ROOFS</b>				
	<u>Repair work to metal roof sheeting</u>				
10	Inspect and repair existing metal roof coverings, etc including wire brushing all rusted areas and loose flaking paint etc thoroughly cleaning and brushing down all the dirt, replacing damaged or missing screws, locating leaks/holes and where required, repair roof covering with a suitable waterproofing compound and sealants to allow a watertight roof treated with "Abe 4-Metal primer" or equally approved to affected areas and leave clean in preparation for new coating (paint e.w.)	m <sup>2</sup>	450		
	<b>Total Carried to Summary</b>			R	

**BILL NO 3**

**ROOF COVERINGS ETC**

Note: Tenderers are advised to study the General Preambles for Trades before pricing this Bill.

Unless otherwise stated herein, all items in this Bill shall be deemed to be a fixed price for the duration of this contract. -----  
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**SUPPLEMENTARY PREAMBLES**

Guarantees

The contractor will be required to provide a written guarantee for the roof covering

**PROFILED METAL SHEETING AND ACCESSORIES**

0.58mm "Chromadeck IBR" profiled sheet steel and accessories, with baked enamel paint finish on one side, fixed to steel purlins

1	Roof covering with pitches not exceeding 25 degrees	m <sup>2</sup>	50
2	Ridge cappings	m	55
3	Hip cappings	m	65
4	Valley flashings	m	70
5	Gable trims	m	45
6	Narrow and broad flute closers 300mm girth	m	120
7	Translucent roof sheets	m <sup>2</sup>	135

**ROOF INSULATION**

100mm Thick "Alutherm" or equally approved fibre glass blanket, faced on one side with aluminum foil and bubble facing on the other side

8	Insulation in 1220mm widths with H-section aluminium bearers at longitudinal joints, laid over purlins (at approximately 1200mm ccs) and fixed concurrent with roof covering, including holes through etc	m <sup>2</sup>	120
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**Total Carried to Summary**

R

<b><u>BILL NO 4</u></b>			
<b><u>WATERPROOFING</u></b>			
SUPPLEMENTARY PREAMBLES			
Waterproofing			
Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. 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			
<b>WATERPROOFING BASEMENTS, ROOFS, BALCONIES, ETC.</b>			
<b><u>Prime surface with bitumen primer and apply one layer "Derbigum SP4" or similar approved waterproofing membrane with 75mm side laps and 100mm end laps, sealed to primed surface to falls and cross falls by "torchfusion" laid in accordance with manufacturer's instructions: led by an approved Derbigum installer and issue a 10 year guarantee.</u></b>			
1	On flat roofs	m2	500
2	On turn-ups and turn-downs not exceeding 300mm girth	m	65
3	On bottoms and sides of floor ducts, channels, etc.	m2	50
4	Additional membrane and sealing into 100mm diameter outlet	No	100
5	<b>PROTECTIVE ROOFING PAINT</b>		
6	Two coats "Silvakote" or similar approved bituminous aluminium paint:		
7	On waterproofing to roofs	m2	400
<b><u>Rust inhibiting waterproofing to manufacturer's specification using non-woven polyester waterproofing membrane impregnated with 100 % pure acrylic waterproofing compound.</u></b>			
8	Roof sheeting overlaps, cross laps, protrusion etc	m2	400
9	Wall to metal flashing	m2	98
<b><u>Spray painting using high-pressure airless spraying equipment with UV Stabilised Industrial grade waterproof coating</u></b>			
10	On roof sheeting	m2	400
<b>4mm "Derbigum SP4" fully bonded waterproofing</b>			
<b><u>All surfaces to be clean, dry, sound, free from all laitance, fungal growth or loose and flaking particles, prime surface area with one coat approved solvent based primer and three coats "abe super laykold" rubberised bitumen emulsion waterproofing reinforced and embedded with "abe membrane", laid with 75mm side and 100mm end laps, all in strict accordance with the manufacturer's specifications</u></b>			
11	On bottoms and sides of existing box gutters	m2	89

12	On walls	m2	50	
	<u>Prime with one coat "bitu Prime" bitumen primer and one layer "abe Unigum 4mm/Index Fidia P" or equal and approved fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spunbonded polyester fabric and coated with polyethelene film for heat bonding, laid with 100mm side and 150mm end laps</u>			
13	On bottoms and sides of box gutters	m2	100	
Total Carried to Summary				R

Item	Final Summary:	Amount
1	Preliminaries	R
2	Alterations	R
3	Roof Covering	R
4	Waterproofing	R
	<b>Sub Total</b>	R
	VAT @ 15%	
	<b>Total</b>	R