

**Bill of Quantities**

Item	Bill description	Unit	Bill quantity	Gross	
				Rate	Amount
	<b>REPAIRS OF MAIN BUILDING ROOF AREA</b>				
	<i>BOARDING AND WATERPROOFING</i>				
	<b>PRELIMINARIES &amp; GENERAL ITEMS</b>				
	<i>Site Establishment</i>				
A	Establishment of personnel and equipment on site	Item	1		
B	Demarcation and closing up of ingress, egress and loading areas	Item	1		
	<i>Personnel:</i>				
C	Provision for the compilation of Safety File	Item	1		
D	Issue of PPE such as Safety Harnesses, Safety boots, Gloves, etc	Item	1		
E	Medicals (all persons to be cleared for working at heights)	Item	1		
	<i>Equipment:</i>				
F	Setting up of scaffolding in demarcated area (Tower of 5m Wide x 6m Long and 10m height)(period maximum 6 weeks)	Item	1		
	<b>Carried forward</b>				

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	<b>Brought forward</b>				
	<b>DEMOLITION (REMOVAL OF EXISTING)</b>				
	<i>Contractor to provide detailed method statement for the removal of all waterproofing materials.</i>				
	<i>Removal of existing</i>				
A	Membrane	m	223.02		
B	Torch-on system	m2	712.45		
C	Boarding	m2	611.13		
D	Remove membrane and Torch-on from gutters	m2	116.79		
E	Remove waterproofing from Fullbores	No	17.00		
F	Remove and prepare waterproofing surrounding Skylight	m	13.60		
	<i>Preparation to receive new:</i>				
G	Repair all areas to receive new membrane on plastered areas	m2	188.02		
H	Repair all parapets and make good to receive Torch-on or membrane waterproofing	m2	93.83		
J	Repair all fullbores and plaster to smooth for installation of Torch-on	No	17.00		
K	Prepare all falls by means of additional screeds in required areas to ensure no pooling of water in areas	m2	19.57		
	<i>Removal of Rubble</i>				
L	All rubble to be removed to a dumpsite identified by the contractor	m3	45.85		
	<b>Carried forward</b>				<b>0.00</b>

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	<b>Brought forward</b>				
	<b>WATERPROOFING</b>				
	Existing waterproofing consist of 21mm Shutterply boarding, Malthoid Torch-on, membrane and Silvacote paint.				
	The scope of works has set a specification for the system preferred, but similar approved system may be used if approved.				
	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				
	Applied waterproofing will be tested and approved. Contractor to also issue a minimum 10-year installation guarantee.				
	Guarantee to include datasheets for all materials used, and the contractor will at its own cost do periodical follow-up inspections to ensure compliance.				
	Testing of flat roof waterproofing for watertightness				
A	Flat roof waterproof areas shall be tested for water tightness prior to hand-over.	Item	1.00		
	Install 21mm Shutterply boarding and prime with one coat bitumen primer				
B	21mm Shutterply boarding	m2	509.43		
	Breeze concrete				
C	Finishing smooth top surfaces of grading to falls for waterproofing including 1:8 monolithic cement plaster screed as necessary	m²	39.45		
	Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane comprising two bitumen layers reinforced with woven spunbonded polyester fabric and coated with polyethylene film for heat bonding, laid with 100mm side and 150mm end laps				
D	On sloping roofs	m²	624.70		
E	On walls	m²	125.40		
F	On turn-ups and turn-downs exceeding 300mm girth	m²	112.72		
G	On tops and sides of inverted beams	m²	35.52		
H	On bottoms and sides of box gutters	m²	123.73		
J	Bandage cover flashing strips 300mm girth at turn-ups, including sealing top edge with mastic in and including groove in brickwork	m	251.44		
K	Dressing and sealing into 100mm internal diameter outlet, including additional membrane	No	17.00		
	Two coats bituminous aluminium paint				
L	On waterproofing to roofs	m²	642.12		
M	On waterproofing to box gutters	m²	124.04		
N	On waterproofing to turn-ups not exceeding 300mm high	m	251.44		
P	On sides of walls for chimneys, etc	m2	63.60		

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	<i>WATERPROOFING TO CORRUGATED ROOF SHEETS ETC</i>				
	<u>Two coats bituminous aluminium paint</u>				
Q	On sloping roofs	m <sup>2</sup>	139.68		
	<i>WATERPROOFING TO SURROUNDS OF SKYLIGHT</i>				
	<u>Polyurethane sealing compound including backing cord, bond breaker, primer, etc</u>				
R	6 x 10mm between skylight and masonry	m	13.60		
	<i>WATERPROOFING (RUBBER) TO RIDGES</i>				
S	Supply & install 20mm wide Polybutton to the underside of Ridging on sloped roofs	m	38.80		
	<b>Carried to summary</b>				

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Item	Bill description	Unit	Bill quantity	Gross	
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	<b>CONTINGENCIES &amp; VALUE ADDED TAX</b>				
A	CONTINGENCIES @ 5%	%	0.05		
B	VAT @ 15%	%	0.15		
	<b>Carried to summary</b>				

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	REPAIRS OF MAIN BUILDING ROOF AREA				
	CONTINGENCIES & VALUE ADDED TAX				
	<b>TOTAL</b>				