

C.2.2 BILLS OF QUANTITIES/LUMP SUM DOCUMENT

Volume 2 of 3: 2nd Part B (page 100-178

**NEWCASTLE: REPAIR AND RENOVATIONS TO
DECENTRALISED TRAINING FACILITY FOR SAPS**

450mm Wide x 1 200mm long x 9mm thick Everite
MOISTURE RESISTANT embossed white gypsum
boards (Code 366-412) with 25mm thermoclad
Polystyrene backing in suspended ceiling panels on
exposed tee suspension system including main and
cross sections, hold down clips, hangers and
angles, grids complete, installed strictly to
manufacturer's specifications. Colour of tees as per
Architect's choice

4	To ceiling suspended not exceeding 1m below concrete soffits in existing grid system	m2	465
5	Extra over ceiling for forming trap door size 600 x 600mm (Provisional)	No	6
6	20 x 30mm "LSM25" Recessed wall angle with colour and finish to Architect's approval	m	707

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**RUBIQUANT
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SUSPENDED CEILINGS

595 mm Wide x 1 195mm long x 6mm thick Vinyl Laminated calcium silicate CAPCO or other approved suspended ceiling panels on pre-painted white exposed tee suspension system including main and cross sections, hangers and angles, grids complete, installed strictly to manufacturer's specifications. Colour and finish to Architect's approval

7	To ceiling suspended not exceeding 1m below timber trusses	m2	1,571
8	Extra over ceiling for forming trap door size 600 x 600mm (Provisional)	No	38
9	Recessed wall angle (code 685-004) with colour and finish to Architect's approval	m	1,844

NAILED UP CEILINGS

6mm Thick Nutec or other approved pressed fibre cement boards with PVC H-profile cover strips

10	Ceilings including 38 x 50mm sawn softwood branderling at 450mm centres	m2	14
11	Extra over ceiling for forming trap door size 600 x 600 mm (Provisional)	No	1

Gypsum plasterboard cornices

12	75mm Coved cornices mitred at corners, with splayed heading joints and bed in gypsum plaster and spiked to branders	m	15
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TOUNGED AND GROOVED NAILED UP CEILINGS

SA Pine Tounge and grooved timber ceiling nailed to existing branderling

13	Ceilings in small areas	m2	395
14	Vertical ceilings in small areas	m2	58

INSULATION

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"Aerolite" insulation:

15	100mm Pure spun glass fibre insulation blanket closely fitted and laid on top of brandering between roof timbers etc.	m2	2,194
16	100mm Insulation in ceilings in small areas.	No	

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	<u>BILL NUMBER 9</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>			
	JBCC Work Group No. 130			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>FLOOR COVERINGS</u>			
	<u>VINYL SHEETING</u>			
	<u>2mm Heavy duty mololayer, rotary pressed, homogeneous, fully flexible Polyflor 2000 PuR vinyl sheeting with welded joints laid with an approved adhesive on screeded floors</u>			
1	On floors	m2		
2	On floors in openings	m2	15	
	<u>Sundries</u>			
3	Extra on vinyl floor sheeting for circular cutting	m	12	
	<u>SKIRTING, NOSINGS, ETC.</u>			
	<u>Sundries</u>			
4	Marley MFE 5 coved cornice under floor sheet	m	728	
	<u>POLISH, SEALERS, ETC</u>			
5	Prepare, strip with an approved vinyl wax stripper, and apply an valid G5ws BBA certification incorporating a cross-linked reinforces polyurethane surface protection and mechanically buff up to high gloss finish	m2	3,260	
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CARPETING

4mm Thick "Belgotex BALTIMORE" heavy commercial carpet tiles or similar approved laid with an approved adhesive. Colour: "Estate"

6	On floors	m2	342
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EDGES, ETC.

Brass dividing strips

7	3 x 25mm Brass floor finish dividing strip embedded in cement screed	m	363
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Weather bars

8	6 x 25mm Brass weather bar cast in concrete slab	m	51
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SKIRTINGS, NOSINGS, ETC

9	"Genesis NLH 105" or other approved natural anodized aluminium tread nosings with PVC inlay strip fixed to concrete	m	132
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10	Vinyl handrail cover fixed to existing steel stair handrails	m	692
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ENTRANCE MAT

Matco

11	2400 x 1 500mm X 13mm Matco Trio Brush interior entrance mat (Code 2406), consisting of 100% polypropylene needle ribs alternated with perforated polyamide brush strips, loose laid with PVC edging, all in accordance with the manufacturer's recommendations or other approved	No	4
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	<u>SECTION NO. 2</u>			
	<u>BILL NUMBER 10</u>			
	<u>IRONMONGERY</u>			
	JBCC Work Group No. 132			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			
	<hr/>			
	<u>HINGES, BOLTS, ETC.</u>			
1	Ball bearing butt hinge code JH-BB-STD-2-SS	Pairs	56.0	
2	150mm Flush bolt with satin chrome finish and with keep set in concrete floor	No	68	
3	100mm Pinned hinges	No	844	
4	Union Single panic bolt code 1930908NV	Pairs	1.0	
5	Union Double panic bolt code 1940908NV	Pairs	1.0	
6	Union concealed barrel bolts code AL 8208150	Pairs	5	
7	100mm Stainless steel butt hinge	No	56	
8	100 x 100mm Stainless steel projection hinge	No	5	
9	150mm Flush bolt with satin chrome finish	No	15	
10	Chromium plated WC indicator bolt as 'Bildware B2578SC'	No	48	
11	100 x 73mm Aluminium sinkless hinges, code HNFL-403020-SAA	Pairs	54.0	
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12	Union helping hand paraplegic facility indicator bolt, code 37651AS	Pairs			
	<u>CABIN HOOKS, ETC.</u>				
13	76mm Chromium plated cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	44		
14	100mm Chromium plated cabin hook and eye including 70 x 70 x 20mm	No	33		
15	150mm Chromium plated cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	16		
	<u>LOCKS</u>				
16	Union spring latch and deadbolt lock Q60 x 85mm-SS	No	5		
17	CISA Mortice electric lock code 16215	No	5		
18	Union L 2241-78 lock case with Union double cylinder lock code 2 x 6SC, Union code 2900 conversion set	No	33		
19	Union 2252-76 3-lever lockset	No	84		
20	Union 2252-76 3-lever upright lock	No	347		
21	Union AL 37651AS helping hand indicator bolt	No	22		
22	CISA Hostel lock	No	109		
23	Brass pad lock to SAPS Five Star specifications	No	2		
24	Union spring latch and deadbolt lock code Q60x85mm-SS	No	22		
25	Union roller catch and deadbolt lock, code QR50 x 85mm-SS	No	15		
26	Union Rack and Pinion CLOser DC135 non hold open EN3	No	82		
27	66mm Union Euro Profile knob cylinder	Pairs	46.0		
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28	Union SS Roller catch code ARC1182SS	Pairs	120.0
	<u>HANDLES</u>		
29	Union SS6SG02-44/05 Seagull SS lever handle on 152 x 152mm backplate	Pairs	206.0
30	1/2 pair per door leaf CISA slimline outside grip handle and 1/2 pair CISA slimline lever handle	Pairs	8
31	Union Sable code 6SA66-13AL	Pairs	3
32	Union AL 6 SA66-13 Sable lever handle on 152 x 152mm backplate	Pairs	96
33	Union 5SA66-73 Sable Pull Handle with indicator bolt on 152 x 152 mm backplate	Pairs	67
34	Union SS5SA63-06 Sable Pull Handle on 152 x 76mm backplate	Pairs	117.0
35	Union SS5D96-22-06 SS Pull Handle on 228 x 152 mm backplate	Pairs	67.0
36	1/2 Pair Union Sable Pull Handle on 152 x 152mm backplate code 5SA66-73-AL	Pairs	2
37	Union AL 6SA66-24 Sable lever handle on 152 x 152mm backplate	Pairs	19
38	Union AI 5 SA 66-06 Sable Pull Handle on 152 x 152mm backplate	Pairs	109
	<u>PUSH PLATES AND KICKING PLATES</u>		
39	100 x 300 x 1,6mm Thick satin finished stainless steel kick plate fixed with epoxy to door	Pairs	2
40	805 x 200 x 1,6mm Thick satin finished stainless steel kick plate fixed with epoxy to door	No	12
41	810 x 200 x 1,6mm Thick satin finished stainless steel kick plate fixed with epoxy to door	No	16

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42	900 x 200 x 1,6mm Thick satin finished stainless steel kick plate fixed with epoxy to door	No	10
43	152 x 152mm Anodized aluminium push plate as 'Union 5066-73-A'	No	80
44	228 x 152mm SS push plate as 'Union 5023-06-228W'	No	52
45	152 x 304mm SS push plate as 'Union TL/TR WC'	No	55
46	760 x 152mm SS Push plate as 'Union 5023-06-760W'	No	12
<u>DOOR CLOSERS</u>			
47	Overhead door closer as 'Dorma TS71'	No	48
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>3mm Thick Anodized aluminium plate with 10mm high "Trade Build Condensed" font lettering fixed to steel door frame with two pop rivets</u>			
48	20 x 80mm Sign with four numeral	No	9
49	20 x 80mm Sign with five numerals	No	268
<u>3mm Thick Anodized aluminium name plate with 80mm high "Trade Build Condensed" letters or numerals fixed to timber door with an approved adhesive</u>			
50	240 x 200mm High sign with two letters or numerals	No	16
51	Ditto with four letters or numerals	No	16
52	Ditto with six letters or numerals and one space	No	12
53	Ditto with nine letters or numerals	No	4
54	Ditto with nine letters or numerals with one space	No	4
55	Ditto with ten letters or numerals with one space	No	4
56	Ditto with eleven letters or numerals with two spaces	No	8

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57	Ditto with twelve letters or numerals and one space	No	4
58	Ditto with thirteen letters or numerals and one space	No	10
59	Ditto with fourteen letters or numerals and two spaces	No	18
60	Ditto with fifteen letters or numerals and two spaces	No	16
61	Ditto with sixteen letters or numerals and two spaces	No	8
62	Ditto with twenty one letters or numerals and three spaces	No	3

EXTERNAL SIGNBOARDS

Aluminium signboards complete with excavations, footings with anchor bolts, posts, post cap, and sign boards (See Signboards details in back of Bill of Quantities)

63	1 360mm Wide x 1 650mm high overall External signboard complete with one signboard to frame	No	7
64	Ditto, but with two signboards to frame	No	2
65	Ditto, but with three signboards to frame	No	1

STANDARD EMERGENCY SIGNS

Jalite or similar approved Emergency signs framed in natural Anodized aluminium frames fixed to wall

66	Sign size 380 x 190mm high consisting of two Photoluminescent sign red on white background (single sided)	No	42
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Jalite or similar approved Emergency signs framed in natural Anodized aluminium frames suspended 200mm below ceiling with two approved chromium plated chains and hooks

67	Sign size 380 x 190mm high consisting of two Photoluminescent sign red on white background (double sided)	No	33
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68	<p><u>Jalite or similar approved Emergency signs framed in natural Anodized aluminium frames fixed to wall</u></p> <p>Sign size 380 x 190mm high consisting of two Photoluminescent sign white figure and border on green background, with the figure indicating the direction of escape (double sided)</p>	No	12	
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	<u>Jalite or similar approved Emergency signs framed in natural Anodized aluminium frames suspended 200mm below ceiling with two approved chromium plated chains and hooks</u>			
69	Sign size 380 x 190mm high consisting of two Photoluminescent sign white figure and border on green background, with the figure indicating the direction of escape (double sided)	No	5	
	<u>Jalite or similar approved Emergency signs framed in natural Anodized aluminium frames suspended 200mm below ceiling with two approved chromium plated chains and hooks</u>			
70	Sign size 570 x 190mm high consisting of three Photoluminescent sign white figure and border on green background, with the figure indicating the direction of escape (double sided)	No	17	
	<u>Jalite or similar approved Emergency signs framed in natural Anodized aluminium frames fixed to wall</u>			
71	Sign size 380 x 190mm high Photoluminescent sign red on white background (single sided)	No	25	
	<u>CUBICLE TRACKS</u>			
72	Hospi-Shadowline SK/S21' suspended cubicle bed screen rails fixed 700mm below ceiling level, including twelve runners per metre, hangers and brackets	m	5	
	<u>Extra over hospital cubicle curtain track for the following fittings</u>			
73	Wall end plugged	No	1	
74	Bend at 500mm radius	No	1	
75	Joint to adjacent track at bend	No	1	
	<u>Hospi-track bed screen Curtains Code H/T/BS1900' polycotton/nylon, non-iron, non-stain, fully washable curtains</u>			
76	Curtain 4 750 x 1 800mm high	No	1	
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	<u>"Kirton Kirsch"</u>			
77	Double curtain track 2 000mm long, including 14 rollers per metre, brackets, stopped ends, etc. plugged and screwed to walls	No	110	
	<u>BATHROOM FITTINGS</u>			
78	20mm Diameter chromium plated clothes rail 800mm long including two end caps fixed to walls	No	266	
79	20mm Diameter chromium plated shower curtain rail approximately 1 100mm long including Solid Art 262 end brackets	No	24	
80	20mm Diameter chromium plated shower curtain track 2 600mm long overall suspended from ceiling on stainless steel cable and stainless steel toggle hook bolt including shower curtain as per architects approval	No	8	
81	Franke Stratos liquid soap dispenser as type STRX 618 code 359705, with stainless steel satin finish complete with cylinder lock and standard Franke key including screws and dowels, surface mounted to wall at height as specified by supplier and to approval of Architect	No	64	
82	Franke Stratos paper towel dispenser as type STRX 600 code 359700, with stainless steel satin finish complete with cylinder lock and standard Franke key including screws and dowels surface mounted to wall at height as specified by supplier and to approval of Architect	No	36	
83	Franke Stratos waste bin as type STRX 605, with stainless steel satin finish complete with cylinder lock and standard Franke key including screws and dowels surface mounted to wall at height as specified by supplier and to approval of Architect	No	48	
84	Stainless steel lockable toilet roll holder as 'Franke STRX 672' plugged to tiled wall	No	19	
	<u>"Chairman Industries" or other approved stainless steel grab rails and accessories</u>			
85	SR 1 Flush valve wall mounted grab rail plugged to walls in disabled toilet	No	7	
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86	SR 2 Cistern wall mounted rear grab rail plugged to walls in disabled toilets	No	7
87	DL 2 Dogleg side wall mounted grab rail with two flanges plugged to wall in disabled toilets	No	7
88	XC Shower corner grab rail plugged to walls in disabled showers	No	4
89	XS Durable plastic shower seat fixed to walls in disabled showers	No	4
	<u>Showerline Mirage corner entry white ep. xy coated shower door factory glazed with obscure safety glass, and fix in strict accordance with the manufacturers specifications</u>		
90	Shower door unit	No	25
	<u>Towel rails</u>		
91	20mm Diameter chromium plated towel hanging rail 700m long including chromium plated end brackets	No	64
	<u>Corner protectors</u>		
92	40 x 40 x 3mm Stainless steel angle corner protectors 1 200mm high screwed and glued to wall with clear epoxy	No	115
	<u>Signs</u>		
93	Male AL5066E-06ASE10	No	34
94	Female AL5066E-06ASE11	No	33
95	Disable AL5066E-06ASE14	No	2
	<u>SUNDRIES</u>		
96	Union Aluminium door stop CZ8731 CH	No	183
97	30mm Diameter x 3mm thick with 4mm high engraved upper caste "Trade Build Condensed" font lettering engraved on with hole through together with 20mm stainless steel keyring	No	552

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98	Union 8722 SS rubber tipped coat hook	No	109
99	Union A18722 rubber tipped hat & coat hook	No	83
100	1 Off Union Aluminium doorstep 8700SS	No	2
101	RED rubber door stop	No	1
102	Union SS wall stop code 99011SS	No	52
103	Union SS Floor stop code 87001SS	No	454
<u>KEY CABINET</u>			
104	Lockable key cabinet with stainless steel finish suitable for fifty keys complete with lock and keys	No	3
<u>SHELVES, ETC.</u>			
<u>Steel shelving system with shelving 914 x 457mm shelves complete widths Uni-angle, side pannels, back panels, corner gussets, bots and nuts, single base foots, etc. as per manufacturer's specifications</u>			
105	2 020mm High Adjustable shelving bolted to wall	m	268
106	Free standing double sided unit 3 900mm long including base foots, etc.	No	3
<u>PROJECTION SCREEN</u>			
107	Electrically operated roll up projection screen size 2 000 x 3 000mm wide installed above ceiling level	No	8
<u>WHITEBOARDS</u>			
<u>Vitrex System 2000 or similar approved vitreous enamelled pinning boards and fixing to manufacturers' instructions</u>			
108	Whiteboard 900 x 1 200mm high, with Anodized aluminium frame, complete with all necessary fixing brackets, etc., plugged and screwed to plastered wall	No	19
109	Ditto, size 1 200 x 1 800mm high	No	2
110	Ditto, size 1 200 x 3 000mm high	No	2

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

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

111	Wall mounted pinning board size 1 200 x 1 200mm high	No	16
112	Ditto, size 1 200 x 1 800mm high	No	2
113	Ditto, size 1 200 x 2 000mm high	No	178
114	Ditto, size 1 200 x 3 000mm high	No	2

VITREOUS ENAMELLED CHALK BOARDS

**Vitrex System 1 000 or similar approved vitreous
enamelled mild steel green magnetic chalk board,
milled aluminium chalkrail and fixing to
manufacturers instructions**

115	Chalkboard 4 800mm x 1 140mm high and fixing to walls	No	2
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VERTICAL BLINDS

**Group 3' fabric fully traversable vertical louvre
drapes with 'Slimline Track System' track and
runners and 90mm wide fabric vanes of standard
colour, complete with all fittings and overhead track
plugged (See Window Schedule in back of Bill of
Quantities)**

116	Window size 3 660 X 3 050mm high overall (Type WA)	No	138
117	Window size 1 830 X 3 050mm high overall (Type WB)	No	3
118	Window size 1 830 X 3 050mm high overall (Type WC)	No	3
119	Window size 1 375 X 3 050mm high overall (Type WD)	No	3
120	Window size 1 549 X 655mm high (Type WF)	No	6
121	Window size 1 549 X 655mm high (Type WG)	No	6
122	Window size 915 X 1 700mm high (Type WL)	No	1

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123	Window size 1 750 X 3 635mm high (Type WM)	No	7
124	Window size 1 750 X 3 635mm high (Type WN)	No	4
125	Window size 2 743 X 1 067mm high on left side and 610mm high on right side of window (Type WP)	No	11
126	Window size 2 743 X 610mm high on left side and 1 067mm high on right side of window (Type WQ)	No	8
127	Window size 3 112 X 1 067mm high on left side and 610mm high on right side of window (Type WT)	No	4
128	Window size 3 112 X 610mm high on left side and 1 067mm high on right side of window (Type WU)	No	4
129	Window size 914 X 3 353mm high (Type WZ)	No	12
130	Window size 3 173 X 4 060mm high overall (Type WAA)	No	8
131	Window size 3 963 X 2 413mm high (Type WAB)	No	3
132	Window size 2 705 X 2 413mm high (Type WAC)	No	12
133	Window size 914 X 2 413mm high (Type WAD)	No	1

STEEL LOCKERS, CUPBOARDS, ETC.

134	"Greenfield" Two tier mild steel locker coated with epoxy polyester baked enamel finish, 305mm wide x 457mm deep x 1 752mm high complete with hasp and staple locking devise and ventilation slats in each door fixed on concrete plinth and bolted to wall	No	65
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SAFES

Drop Safe

135	"Chubb safes" or other approved category 3 cash-in-transit safe, size 600mm wide x 820mm deep x 785mm high, including 3 MK 1 boxes.	No	1
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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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RELOCATION OF BILLIARD TABLE

- 136 Allow the Provisional Sum of R 30 000,00 (Thirty Thousand Rand) for the disassembling billiard table (approximately 4 000 mm long x 2 000mm wide) and two light fittings complete and re-assemble in External Conference facility complete with all necessary electrical connections, etc.
- 137 Allow for profit
- 138 Allow for general attendance on specialist executing the work

Item

30,000.00

Item

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SECTION NO.2

BILL NUMBER 11

METALWORK

JBCC Group No. 136

SUPPLEMENTARY PREAMBLES

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

Descriptions

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

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

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

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

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Section No. 2
Bill No. 11
Metalwork
**RUBIQUANT
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SUNDRY STEELWORK

Galvanised Mild Steel

1	0.8mm three times bent 85mm girth CHROMADEK sill flashing (See Window Sill detail in back of Bill of Quantities)	m	924
2	0.8mm three times bent 120mm girth CHROMADEK drip flashing (See Window Soffit detail in Back of Bill of Quantities)	m	924
<u>2 x 2mm round bar burglar bars welded horizontally at 100mm centres to existing windows (opening sections only) (See Window Schedule in back of Bill of Quantities)</u>			
3	Window size 1 511 x 1 540mm high (Type W1)	No	1
4	Window size 2 000 x 949mm high (Type W2)	No	8
5	Window size 533 x 654mm high (Type W3)	No	6
6	Window size 1 022 x 654mm high (Type W4)	No	2
7	Window size 1 511 x 654mm high (Type W5)	No	11
8	Window size 1 511 x 654mm high (Type W7)	No	3

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STEEL HANDRAILS, BALUSTRADES, ETC

Welded balustrading to stairs

9	Balustrading to landings 1 100mm high consisting of 50mm diameter x 3mm thick hollow section continuous top rail and bottom rail, 10mm solid intermediate balusters at 150mm centres between top and bottom rails and 75 x 75mm x 4mm thick square hollow section posts at approximately 1 200mm centres each with 100 x 100 x 4mm flat section base plate welded to steel landings	m	275
10	Extra over 1 100mm high horizontal balustrading for bend	No	40
11	Raking balustrading to stairs 1 100mm high consisting of 50mm diameter x 3mm thick hollow section continuous top rail and bottom rail, 10mm solid intermediate balusters at 150mm centres between top and bottom rails and 75 x 75mm x 4mm thick square hollow section posts at approximately 1 200mm centres each with 100 x 100 x 4mm flat section base plate welded to steel stairs	m	256
12	Extra over 1 100mm high raking balustrading for ramp or knee	No	48
13	Extra over 1 100mm high balustrading for flat closed end	No	8

WELDED SCREENS, BALUSTRADING, GATES, ETC

Screens and gates to brickwork

14	Single gate 900 x 2 100mm high overall of 25 x 25 x 2,5mm hollow section outer frame, panel filled in with 10mm diameter intermediate vertical rails welded in between horizontal frame vertical at maximum 100mm centres, fitted with one pair standard steel gate 25mm mild steel pin type hinges 80mm long with 15mm diameter solid steel pin welded to 3No back to back welded 50 x 50 x 4mm angle section cleats 200mm long bolted to wall with 4No M12 bolts per cleat and 40 x 40 x 3mm hollow section vertical frame 1 100mm long welded to 200 x 25 x 3mm lugs built into brick wall at lock side with 3mm steel cover plate housing for deadlock (ironmongery elsewhere)	No	5
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15	Double gate 2 400 x 2 700mm high, each leaf of 1 200 x 2 700 x 2,5mm hollow section frame , panel filled in with 10mm diameter intermediate vertical rails welded in between horizontal frame verticals at maximum 100mm centres, fitted with one pair standard steel gate 25mm mild steel pin type hinges 80mm long with 15mm diameter solid steel pin welded to 3No back to back welded 50 x 50 4mm angle section cleats 200mm long bolted to wall with 4No M12 bolts per cleat and 40 x 40 x 3mm hollow section vertical frame 1 100mm long welded to 200 x 25 x 3mm lungs built into brick wall at lock side with 3mm steel cover plate housing for deadlock Including ironmongery.	No	2	
	<u>Galvanised Mild steel gilles</u>			
16	700 x 375mm high Galvanised mild steel gille fitted next to door Type D at 2 064mm high	No	129	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Windows by "Durowin" or similar approved standard frame sections complete with approved satin chrome fittings</u>			
17	Window as Type NE7, size 1 022 x 654mm high	No	2	
	<u>Galvanised mild steel double door with 500x600mm louvre grille panels at low level</u>			
18	Door type DLB, overall size 1 511 x 2 064mm high	No	1	
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated frames suitable for half brick walls with two 100 x 75 mm steel butt hinges per door leaf</u>			
19	Frame for door 711 x 1 957mm high	No	23	
20	Frame for door size 762 x 2 032mm high	No	4	
21	Frame for door 813 x 2 032mm high	No	8	
22	Frame for door 813 x 1 957mm high	No	8	
23	Frame for door size 900 x 2 032mm high	No	5	
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24	Frame for door overall size 1 350 x 2 032mm high <u>1.6mm Double rebated frames suitable for one brick walls with two 100 x 75 mm steel butt hinges per door leaf</u>	No	4
25	Frame for door 720 x 2 032mm high	No	1
26	Frame for door size 762 x 2 032	No	10
27	Frame for door 813 x 2 032mm high	No	24
28	Frame for double door 1 511 x 2 032mm high	No	
29	Frame for door overall size 1 398 x 2 032mm high <u>GALVANIZED PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u> <u>The following in GALVANIZED Mild Steel Transformer Room Door:</u>	No	9
30	Durowin C.V. or other approved transformer room door size 1 220 x 2 134mm high including louvre vent and hinges and hanging to brickwork <u>STEEL STRONGROOM DOORS, VENTILATORS, ETC.</u> <u>"Mutual Security" Safe and Security Group strongroom doors and accessories</u>	No	6
31	Take delivery of, transport to site, setup and build in DS4 20mm Heavy Duty strongroom door and frame size 850 x 1 860mm high with a mass of 740kg	No	8
32	Double ended strongroom ventilators built into wall	No	8
33	Universal doorstop bolted to floor or wall <u>Bitcon Industries Security RUBIDOR fire door complete with factory fitted door and frame and continuous gear hinge</u>	No	8
34	Door size 813 x 2 032mm high including frame with 500 x 700 x 27mm viewing panel with bullet resistant glass in stainless steel surround (See door type DB)	No	9

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STEEL ROLLER SHUTTER DOORS, ETC.

Heavy duty roller shutters with powder coated finish, fixed to brickwork or concrete in accordance with manufacturer's specifications

35	Hand operated roller shutter door for 2 000 x 900mm high opening, with padbolts, locking devices, etc. both sides	No	2
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36	Hand operated roller shutter door for 2 465 x 2 040mm high opening, with padbolts, locking devices, etc. both sides	No	3
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Heavy duty GALVANIZED roller shutters, fixed to brickwork or concrete in accordance with manufacturer's specifications

37	Roller shutter door for 3 000 x 2 720mm high opening including all ironmongery but operated from security room	No	1
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ALUMINIUM WINDOWS AND DOORS

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

Windows and doors

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

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

Glazing

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

Fixing

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

Pointing etc.

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

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Protection

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

Servicing etc.

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

Prices

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

References

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

Ironmongery

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

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Purpose made powder coated aluminium window frame, side- and fanlights to AAMSA Standards glazed in accordance with SABS 10160, 10137, 10400 and SABS 1263 with 4mm low emission float glass over 5mm toughened tinted laminated safety glass plugged to brickwork or concrete including all necessary cover plates, jointing strips, silicone, etc. (See Window Schedules in back of Bills of Quantities)

38	Window size 1 830 x 3 354mm high overall (Type WA/B)	No	14
39	Window size 750 x 3 354mm high overall (Type WC)	No	3
40	Window size 1 375 x 3 050mm high overall	No	
41	Window size 1 765 x 2 250mm high overall (Type WE)	No	2
42	Window size 3 685 x 1 800mm high overall (Type WF)	No	8
43	Window size 2 690 x 1 800mm high overall (Type WG)	No	
44	Window size 2 565 x 1 800mm high overall (Type WH)	No	7
45	Window size 1 500 x 1 800mm high overall (Type WJ)	No	1
46	Window size 1 385 x 3 363mm high overall with side window size 500 x 3 363mm high (Type WM/N)	No	2
47	Window size 1 385 x 3 160mm high overall, pane size 277 x 1 073mm high (Type WP)	No	1
48	Window size 1 022 x 654mm high overall (Type WQ)	No	1
49	Window size 3 180 x 600mm high (top) and two side windows connected to top section size 636 x 2 580mm high (WS)	No	16
50	Window size 220 x 2 200mm high overall (Type WT)	No	3
51	Window size 1 020 x 2 000mm high overall (Type WZ)	No	1

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52	Window size 1 720 x 2 055mm high overall	No	133
53	Window size 830 x 2 055mm high overall	No	6
54	Window size 4 200 x 2 765mm high overall	No	2
55	Window size 4 200 x 2 743mm high overall	No	1
56	Window size 1 385 x 3 065mm high overall with side window size 500 x 3 065mm high	No	6
57	Window size 1 385 x 2 775mm high with side window size 500 x 2 775mm high	No	2
58	Window size 1 385 x 3 160mm high overall	No	1
59	Window size 1 385 x 3 060mm high	No	4
60	Window size 305 x 2 055mm high	No	4
61	Window size 2 100 x 1 500mm high	No	5
62	Window size 2 400 x 1 500mm high	No	1
63	Window size 2 689 x 3 211mm high overall with side window size 1 080 x 3 211mm high	No	1
64	Window size 2 689 x 3 691mm high overall with side window size 1 080 x 3 691mm high	No	3
65	Window size 2 689 x 3 866mm high overall with side window size 1 080 x 3 866mm high	No	2

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Purpose made powder coated aluminium window frame, side- and fanlights to AAAMSA Standards glazed in accordance with SABS 10160, 10137, 10400 and SABS 1263 with 4mm CLEAR FLOAT glass plugged to brickwork or concrete including all necessary cover plates, jointing strips, silicone, etc. including flyscreens to opening sections (See Window Schedule in back of Bill of Quantities)

66	Window size 1 615 x 1 200mm high overall (Type WK)	No	2
67	Window size 600 x 1 800mm high overall (Type WL)	No	8
68	Window size 1 511 x 654mm high overall (Type WR)	No	1
69	Window size 2 150 x 680mm high overall (Type WV)	No	8
70	Window size 1 720 x 680mm high overall (Type WW)	No	28
71	Window size 1 500 x 1 200mm high overall (Type WY)	No	3
72	Window size 2 400 x 680mm high overall	No	5
73	Window size 2 250 x 750mm high	No	9
74	Window size 2 000 x 950mm high	No	9
75	Window size 1 920 x 680mm high overall	No	4
76	Window size 1 720 x 680mm high overall	No	
77	Window size 1 511 x 650mm high	No	3
78	Window size 1 500 x 900mm high	No	2
79	Window size 950 x 910mm high overall	No	4
80	Window size 910 x 950mm high overall	No	2

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81	Window size 530 x 650mm high <u>Purpose made powder coated aluminium window frame, side- and fanlights to AAAMSA Standards glazed in accordance with SABS 10160, 10137, 10400 and SABS 1263 with 5mm CLEAR FLOAT glass plugged to brickwork or concrete including all necessary coverplates, jointing strips, silicone, etc. including flyscreens to opening sections (See Window Schedule in back of Bill of Quantities)</u>	No	8	
82	Window size 2 200 x 1 200mm high overall (Type WX) <u>Purpose made powder coated aluminium window frame, side- and fanlights to AAAMSA Standards glazed in accordance with SABS 10160, 10137, 10400 and SABS 1263 with 25mm BULLET RESISTANT safety glass plugged to brickwork or concrete including all necessary coverplates, jointing strips, silicone, etc. (See Window Schedule in back of Bill of Quantities)</u>	No	1	
83	Window size 1 800 x 900mm high overall (Type WU) <u>Wispeco Klip 44 powder coated aluminium doors with frame including fixed clear glazed panels of 5mm toughened safety glass intruderprufe High Impact (HI) and build into openings in one brick wall (See Door Schedule in back of Bill of Quantities)</u>	No	2	
84	Aluminium door overall size 1 625 x 2 765mm high with fan light panel above and double door 2 032 high (See door type DA)	No	4	
85	Aluminium door overall size 1 830 x 2 580mm high with fan light panel above and double door 1 950 high (See door type DB)	No	1	
86	Aluminium door overall size 1 830 x 3 354mm high with fan light panel above and double door 2 380 high (See door type DC)	No	2	
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87	Aluminium door overall size 1 485 x 2 775mm high with fan light panel above and double door 1 995 high (See door type DD)	No	1	
88	Aluminium door overall size 3 000 x 2 100mm high with two fixed panels on sides and double door size 1 860mm in the middle (See door type DE)	No	1	
89	Aluminium double door size 1 770 x 2 250mm high (See door type DF)	No	2	
90	Aluminium double door size 1 584 x 2 100mm high (See door type DG)	No	2	
91	Aluminium double door size 1 620 x 2 100mm high (See door type DH)	No	1	
92	Aluminium door size 900 x 2 100mm high (See door type DT)	No	4	
<u>BURGLAR BARS FOR ALUMINIUM WINDOWS</u>				
<u>2 x 10 x 5 mm Aluminium flats pip riveted to frame (opening sections only) (See Window Schedule in back of Bill of Quantities</u>				
93	Window size 1 385 x 3 065mm high	No	9	
94	Window size 1 385 x 3 363mm high	No	2	
95	Window size 1 385 x 3 160mm high	No	2	
96	Window size 1 385 x 2 751mm high	No	2	
97	Window size 1 080 x 3 691mm high	No	4	
98	Window size 2 689 x 3 691mm high	No	2	
99	Window size 1 080 x 3 211mm high	No	2	
100	Window size 2 689 x 3 211mm high	No	1	
101	Window size 1 080 x 2 866mm high	No	4	
102	Window size 2 689 x 2 866mm high	No	2	
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SUNDRY ALUMINIUM WORK

**Aluminium cover strip fixed to one side of
expansion joint with silicon sealer**

103	55 x 3mm Thick vertical cover strip to brickwork	m	112
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**Aluminium weather proof ventilation grille panel
system including insect mesh on inside as per
AAMSA standards**

104	2 250 x 750mm high grille	No	2
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<p><u>BILL NUMBER 12</u></p>			
<p><u>STRUCTURAL STEELWORK (PROVISIONAL)</u></p>			
<p>SUPPLEMENTARY PREAMBLES</p>			
<p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or other approved may be used with prior approval from the architect.</p>			
<p>Where there is a reference to SABS code, it means the new SANS code definition.</p>			
<p><u>NOTES</u></p>			
<p>1. All steel must be grade 300 W to SABS 1431. Commercial Grade cold rolled sections to have a minimum yield stress of 225 MPa (Contractor to get confirmation from supplier in this regard).</p>			
<p>2. All bolts and nuts to be grade 8.8 unless otherwise specified. Bolts shall be hot dip galvanised to BS763 and it must be possible to screw mate parts together by hand.</p>			
<p>3. All fasteners must be supplied by the Contractor.</p>			
<p>4. All welds shall be full penetration 6mm welds to SABS 044 and SABS 455, all round where possible, unless otherwise stated.</p>			
<p>5. All construction and workshop details must be approved by the Engineer before fabrication is started.</p>			
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6. Structural steelwork must be carried out according to SABS 1200H.
7. All bolts and nuts must have washers.
8. The contractor must ensure adequate structural stability of the structure for the full duration of erection. The contractor shall supply all temporary bracing and fixing mechanisms to achieve the above.
9. No holes to be formed or widened with the use of a cutting torch. The contractor must confirm all dimensions on site. Discrepancies to be reported to the engineer.
10. Prices for all structural steelwork are to include for the following:
 - (a) preparation and submission of two complete sets of shop drawings to the Structural Engineers for approval,
 - (b) fabrication,
 - (c) cleaning down and sandblasting to SA 2,5 (SIS 05 5900 - 1967) with profile of between 40 and 70 micron,
 - (d) prime (within 3 hours of sandblasting) with "Plascon zinc phosphate primer (UC. 170) to dry film thickness of between 50 and 100 micron,
 - (e) delivery to site,
 - (f) storage, if necessary,
 - (g) hoisting and erection complete, including all holing, galvanised mild steel bolts, washers, packing pieces, bolting, welding, etc

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11. Painting of structural steelwork after erection is
elsewhere
measured

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**GALVANISED STEEL, ERECTED AND FIXED IN
POSITION COMPLETE**

**THE FOLLOWING IN GALVANISED STEEL
COLUMNS AND BEAMS FOR COVERED WALKWAY
AND CARPORT**

**Welded columns in single lengths with flat section
base, top, bearer and connection plates bolted to
galvanised steel, brickwork and/or concrete**

1	100 x 100 x 2.5mm Hollow section	kg	6,127
2	100 x 100 x 4.5mm Hollow section	kg	166
3	IPE 100	kg	3,102
4	IPE 140	kg	1,784
5	IPE-AA 140	kg	1,329
<u>Cleats, brackets, etc</u>			
6	300 x 200 x 12mm Base- and top plates	kg	598
7	250 x 76 x 10mm Connection plate	kg	82
8	200 x 200 x 16mm Connection plate	kg	543
9	6mm Plate	kg	433
10	80 x 8mm Galvanised steel cap	kg	552
<u>PURLINS, GIRTS, BRACING, ETC.</u>			
<u>Purlins and girts welded to steel</u>			
11	75 x 50 x 20 x 2.5mm Lipped channel section purlins	kg	1,661
12	150 x 65 x 20 x 2,5mm Lipped channel section purlins	kg	4,291
13	100 x 50 x 20 x 2.0 CF Lipped Channel	kg	3,717
14	100 x 50mm PF Channel	kg	5,265

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Bracing, bearers, cleats, etc. bolted to steel

15	50 x 50 x 5mm Angle section bracing, bearers, sag rails or cleats	kg	3,435
16	60 x 60 x 6mm Angle section	kg	1,642
17	75 x 50 x 5mm Flat section	kg	2,262
18	90 x 65 x 6mm Angle	kg	7,445
19	76.2 x 3.0 Round Hollow Section	kg	585

Mild steel Brackets

20	60 x 50 x 6mm Thick mild steel angle bracket connecting purlins to steel trusses	kg	1,848
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Sundries

21	Steelwork in base plates , connector plates, cleats, etc.	kg	762
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BOLTS

Bolts to trusses, etc.

22	M16 Bolt and nut Grade 4.8	No	936
23	M20 bolt & Nut	No	85
24	10mm Diameter expansion bolt	No	585
25	12mm Diameter expansion bolt	No	632
26	16mm Diameter expansion bolt	No	745
27	20mm Diameter expansion bolt	No	54

Bolts to column stub columns

28	16mm Diameter Anchor bolt 550mm girth overall with 125mm high threaded head and 100mm long spliced end	No	208
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Chemical Anchors

29	12mm Chemical Anchor bolt 300mm long	No	735
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	<u>BILL NUMBER 13</u>			
	<u>PLASTERING</u>			
	JBCC Work Group No. 142			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>SCREEDS</u>			
	<u>1:3 Cement screeds steel trowelled on concrete</u>			
1	25mm Thick on floors	m2	209	
2	30mm (Average) Thick on floors to falls	m2	85	
3	35mm (Average) Thick to roof slab laid in currents and falls and dressing around inlet grating to receive waterproofing	m2	1,634	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
4	35mm Thick on floors	m2	97	
5	Minimum 35mm thick on floors to falls and currents	m2	27	
6	Concave skirting 250mm high with 50mm radius and neat V-joint where floor finish and plaster meet	m	124	
7	Raking skirting 150mm high to staircase to match existing	m	65	
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INTERNAL PLASTER

15mm Thick 5:1 smooth cement plaster on brickwork

8	On walls	m2	5,973
9	On narrow widths	m2	154

15mm Thick 5:1 smooth cement plaster on fibre cement

10	On 150mm wide internal sill	m	643
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"Rhinolite" skim plaster on existing plastered walls

11	On walls	m2	915
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One coat cement 4:1 cement plaster on concrete

12	On ceilings	m2	51
13	Extra over for V joint formed between plastered concrete and plastered brickwork	m	48

"Rhinolite" skim plaster on gypsum ceiling boards

14	On ceilings	m2	623
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EXTERNAL PLASTER

15mm Thick 4:1 smooth cement plaster on brickwork

15	On walls	m2	2,774
16	On narrow widths	m2	53

20mm Thick 4:1 smooth cement plaster on fibre cement

17	On sloping top and edge on 200mm wide sill including drip groove	m	580
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	<u>Fix 3mm strand chicken wire flush to wall and plaster with 15mm thick (5:1) smooth cement plaster on brickwork (Provisional)</u>			
18	On walls	m2	143	
	<u>ABE Durogrout min. 25mm. max. 50mm thick</u>			
19	On RC ground beams	m2	22	
	<u>EXTERNAL PLASTER REPAIRS (EXPOSED STEEL REINFORCING BARS)</u>			
	<u>Wire brush and remove dust on rebar, apply one coat SIKA TOP ARMATEC 110 EPO CEM or similar approved to exposed areas as a protective coating for reinforcement steel embedded in concrete to prevent corrosion</u>			
20	On small areas of plastered walls with exposed rebar	m2	129	
21	On small area of plastered ceilings with exposed rebar	m2	57	
22	On small areas of plastered columns and beams with exposed rebar	m2	42	
	<u>Fill the area with repair mortar as SIKA MONO TOP 615HB PLUS HIGH PERFORMANCE REPAIR MORTAR or similar approved as a concrete repair and reprofiling system</u>			
23	On small areas of plastered walls with exposed rebar	m2	129	
24	On small area of plastered ceilings with exposed rebar	m2	57	
25	On small areas of plastered columns and beams with exposed rebar	m2	41	
	<u>Protect the fresh mortar by during with wet burlap, or covering with plastic sheeting, and apply SIKA CORROSION INHIBITING IMPREGNATION SIKA FERROGARD 903 or similar approved as a migratory impregnation which absorbs onto reinforced steel to protect against corrosion and to extend the service life of concrete</u>			
26	On small areas of plastered walls	m2	258	
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27	On small area of plastered ceilings	m2	114
28	On small areas of plastered columns and beams	m2	83
<u>Level any surface defects and restore the profile using SIKA TOP SEAL 107 ZA or similar approved as a protective and waterproofing coating on interior or exterior concrete or mortar surfaces</u>			
29	On small areas of plastered walls	m2	258
30	On small areas of plastered ceilings	m2	114
31	On small areas of plastered columns and beams	m2	83
<u>Protect the repair from water and chlorides by applying SIKAGARD 703 W PENETRATING SEALER OR SIKAGARD 63 N EPOXY COATING or similar approved</u>			
32	On small areas of plastered walls	m2	258
33	On small areas of plastered ceilings	m2	114
34	On small areas of plastered columns and beams	m2	83

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	<u>SECTION NO.2</u>			
	<u>BILL NUMBER 14</u>			
	<u>TILING</u>			
	JBCC Work Group No. 144			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			
	<u>WALL TILING (First grade)</u>			
	<u>200 x 200 x 5mm Johnson Matisse matt white glazed tile (code MW4) (PC amount R180/m2 delivered to site, excluding VAT) fixed with approved adhesive to plaster (plaster elsewhere measured) and flush pointed with waterproof pointing compound (allow for waste, labour and profit to price)</u>			
1	On walls	m2	1,494	
2	On walls in isolated panels, splash backs, etc	m2	336	
3	On narrow widths	m2	84	
4	On narrow widths in cills at 3 degrees angle	m	182	
	<u>SUNDRIES</u>			
	<u>Internal or external corner protector</u>			
5	6mm PVC internal corner protector tiling trim with a white finish	m	375	
6	6mm PVC external corner protector tiling regular trim with a white finish	m	515	
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FLOOR TILING

Non-slip 300 x 300 x 8mm Johnson Kerastar Granites Themis full bodied Porcelain tiles (PC amount of R300.00/m2 delivered to site, excluding VAT) on and including 10mm bedding laid on screed (screed elsewhere measured) and flush pointed with tinted waterproof jointing compound with maximum 8mm joints (allow for waste, labour and profit to price)

7	On floors	m2	555
8	On floors to falls	m2	25
9	In narrow widths	m2	48
10	Skirting 100mm high	m	5,023

300 x 300 x 8mm Johnson Kerastar Granites Themis full bodied Porcelain tiles (PC amount of R300.00/m2 delivered to site, excluding VAT) on and including 10mm bedding laid on screed (screed elsewhere measured) and flush pointed with tinted waterproof jointing compound with maximum 6mm joints (allow for waste, labour and profit to price)

11	On floors and landings.	m2	3,846
12	On floors to falls.	m2	
13	In narrow widths.	m2	
14	Skirting 100mm high	m	

Porcelain 50x50mm floor mosaics (PC amount of R450.00/m2 delivered to site, excluding VAT), bed in an approved tile adhesive and flush pointed with water resistant grouting (allow for waste, labour and profit to price)

15	On shower floors	m2	16
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**Non-slip 300 x 300 x 8mm Johnson Kerastar
Granites Themis full bodied Porcelain tiles (PC
amount of R300.00/m2 delivered to site, excluding
VAT) on and including 10mm bedding laid on screed
(screed elsewhere measured) and flush pointed with
tinted waterproof jointing compound with maximum
8mm joints (allow for waste, labour and profit to
price)**

16	On floors and landings to falls on average 30mm thick bed.	m2	310
17	On treads 250mm wide of 305 x 230 x 32mm bullnosed tiles.	m	332
18	Skirting 100mm high	m	421

BATHROOM ACCESSORIES

19	Plumbcrazy Fast fit ceramic soap dish	No	25
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	<u>BILL NUMBER 15</u>			
	<u>PLUMBING AND DRAINAGE (Provisional)</u>			
	JBCC Work Group No. 146 & 148			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>RAINWATER DISPOSAL</u>			
	<u>2mm Galvanized sheet steel gutters and rainwater pipes</u>			
1	115 x 150mm Roof gutters six times bent (See Gutter detail in back of Bill of Quantities)	m	84	
2	100mm Diameter PVC Rainwater pipes	m	28	
	<u>0.6mm Seamless Aluminium gutters with baked enamel finish fixed with standard holderbats at 1000mm centres to manufacturer's specifications</u>			
3	100 x 125mm Ogee eaves gutters	m	344	
4	Extra over eaves gutter for stopped end	No	16	
5	Extra over eaves gutter for angle	No	5	
6	Extra over eaves gutter for outlet for 100 x 75mm down pipe	No	41	
7	75 x 100mm down pipe	m	144	
8	Extra over rainwater down pipe for offset bend	No	41	
9	Ditto, for shoe	No	41	
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<u>uPVC down pipes</u>				
10	75mm Pipes cast into concrete columns	m	14	
11	75mm Bend	No	4	
12	Extra over down pipe for cutting spout end fair against circular column	No	4	
<u>Cast iron rainwater inlet/outlet drains</u>				
13	150mm Diameter full bore inlet with domical inlet grating and outlet to 110mm pipe	No	24	
<u>SANITARY FITTINGS</u>				
<u>The following in WASH HAND BASINS fixed complete in position and connected to services</u>				
14	Vaal Springbok ceramic clay 550 x 400 rectangular basin with two tap holes, integrated over flow and chain stay hole, fix to wall	No	138	
15	32 x 50 mm Chromium plated bottle trap as Cobra 345/50 including coupling and joints to uPVC pipe and to fitting	No	138	
16	15 mm Copper (1.2 mm thick) service pipe average 350 mm girth, bent as necessary, including one straight copper to iron fitting (tap)	No	292	
17	One pair Cobra STAR code 111-15 chrome plated brass taps and 32 mm chromium plated waste union with backnut, chain and vulcanite plug (Cobra code 301)	No	138	
18	15 mm Chrome plated Cobra Star undertile stop tap (code 128)	No	105	
<u>The following in WC SUITES fixed complete in position and connected to services</u>				
19	Vall Aquasave vitreous china low level suite 90° outlet wash down pan and with heavy duty double flap plastic seat and matching 6 litre SISO cistern complete with dual flush handle, lid, fittings and flush pipe	No	105	
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20	15mm Chrome plated Cobra Star (code 128) undertile stop tap with 350mm long bendable copper service connection pipe	No	105	
<u>The following in PARAPLEGIC WC suite complete</u>				
21	Low level paraplegic WC suite comprising of code 7502 pan or equal approved with heavy duty double flap and plastic seat fixed with non-ferrous metal bolts and matching code 710 536 nine litre cistern or equal approved with purpose made chromium plated side flush lever mounted to adjacent wall, brass valves and flush pipe	No	9	
22	White Vitreous China floor mounted WC set with flushing cistern, low level outlet washdown pan to SABS 497 as per Magnolia Code 40010 or other approved, matching 9 litre cistern complete with lid and fitments to comply with SABS 497 as per code 750 200 or other approved, ball valves to be of brass as described in the DOW OW 371 and SABS 752 to size, plastic ball floats for ball valves to SABS 1006, approved heavy duty double flap seat as per DOW 371 specifications having closed fronts of size and shape required to fit the pan, each attached to pan with non-ferrous metal fixing bolts, fixing and installation procedures as per Manufacturer's specifications, fit vandal proof chrome plated brass toilet roll holder as per DOW sample 71, securely screw fixed by means of suitable approved wall plugs.	No	9	
23	15 mm Copper (1.2 mm thick) service pipe average 350 mm girth, bent as necessary, including one straight copper to iron fitting (tap)	No	11	
24	15 mm Chromium plated ballostop	No	9	
<u>The following in URINAL complete</u>				
25	Laventera Vitreous china 600 x 385 x 380mm wall hung urinal (code 705426) with top inlet fitting (code 7054Z1), 38mm domical chromium plated grating, chromium plated top inlet spreader, exposed top inlet flush valve, chromium plated flushvalve and flush pipe, fixed to wall with two hanger brackets	No	25	
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26	32 x 50 mm Chromium plated bottle trap as Cobra 345/50 including coupling and joints to uPVC pipe and to fitting	No	25		
27	15mm Chrome plated Cobra demand stop tap with wall plate mounting screws and wall plugs as cobra code KM2.400	No	25		
<u>The following in PREPARATION BOWL complete</u>					
28	Stainless steel Rondo RDX610-45 prep bowl size 450mm diameter x 155mm deep bowl, including 90mm waste fitting, slotted overflow and fixed into counter top (counter top elsewhere measured)	No	4		
29	40mm Chromium plated bath or sink waste with 70mm diameter flange, 45mm long shank, with backnut, plug and chain	No	4		
30	Chromium plated bottle trap with 75mm deep seal, inlet screwed female and outlet male and joints to uPVC pipe	No	4		
31	15mm Chrome prep bowl pillar tap with swan neck swivel outlet and flanged backnut - Carina 115CA	No	4		
32	15mm Copper service pipe average 350mm girth, bent as necessary, including one straight copper to iron fitting (tap)	No	4		
<u>The following in SHOWER TRAY fixed complete in position and connected to services</u>					
33	Plexicor Granada 900 x 900 x 150mm shower tray with anti-slip floor and corner waste outlet	No	31		
34	Cobra watertech shower heads	No	31		
35	Cobra Vandalmaster Watertech Star taps and mixers	No	31		
36	40mm Brass shallow seal shower P-trap with chrome plated grating, etc.	No	31		
37	15mm Undertile pattern stopcock with sliding wall flange - Carina 138CA-15	No	31		
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The following in WASH TROUGHS fixed complete in position and connected to services

38	Reinforced concrete washing trough, size 600 x 380mm deep, 457mm wide at top and 254 mm wide at bottom internally with reedings 200 mm wide set on and including two precast concrete pedestals, size 380 x 380 x 75mm thick	No	5
39	40mm Chromium plated bath or sink waste with 70mm diameter flange, 45mm long shank with chromium plated anti-theft plug with spindle	No	5
40	40mm uPVC deep seal "P" or "S" trap	No	18
41	15mm Chromium plate wall type sink mixer with overarm swivel outlet, concealed connections adjustable from 155mm to 200mm	No	5

The following in SLOP HOPPER fixed complete in position and connected to services

42	"Citimetal Model CH" slop hopper unit with grid, 540 x 545mm with 100mm high integral splashback to the rear and both sides fixed to wall	No	6
43	40mm Chromium plated bath or sink waste with 70mm diameter flange, 45mm long shank, with backnut, plug and chain	No	6
44	15mm Chromium plated elbow action hose bibtap	No	6
45	32mm Chromium plated bottle trap with 75mm deep seal, inlet screwed female with 50mm PVC outlet male including coupling and joints to uPVC pipe	No	6

The following in BATH complete

46	Betteclassic rectangular steel enamel bath size 1 800 x 700 x 450mm wide with 40 mm chrome outlet and grating, plug and back nut with stirrup chain & stay, chrome plated brass Cobra code 320 bath overflow complete, including fixing in position and building in	No	11
47	Cobra Star wall type bath mixer code 147	No	11

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48	350 x 350 x 3 mm Mild steel access panel fixed with 6 x 4 mm diameter selftapping screws onto 50 x 50 x 3 mm mild steel angle section mitred, framed and welded frame plugged to brickwork	No	11
<u>Sinks, wash troughs, etc.</u>			
Stainless steel sinks to comply with SABS 907			
Stainless steel wash troughs to comply with SABS 906			
49	"FRANKE" LDS Stainless steel drip sink size 600 x 500 x 258mm Wall hung	No	10
50	"FRANKE" Quiline QLX 611 Stainless steel single bowl sink size 900 x 500mm inset into counter top and cupboard (measure elsewhere)	No	1
51	Cobra code 340 Chromium plated bottle trap including coupling and joints to uPVC pipe and to fitting	No	1
52	15 mm "Cobra" Star Extended Bultap including tap bracket fitted under wall outlet tap (3206EXT-15) complete	No	6
53	15 mm "Cobra" extended wall mounted sink mixer with swivel outlet as Stella 3366/041/10ST complete	No	6
54	Cobra Star high waist chrome plated brass Star pillar tap code 113, chrome plated Cobra code 266/041/10 wall mounted sink mixer, chrome plated code 316 waste plug and chain	No	6
<u>TAPS, VALVES, ETC.</u>			
<u>Brass</u>			
55	15mm Stopcock	No	298
56	22mm Stopcock	No	108
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
57	50mm Pipes	m	390

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58	110mm Pipes	m	45
59	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	330
60	110mm Pipes fixed underneath concrete slab	m	570
<u>Extra over uPVC pipes for fittings</u>			
61	50mm Bend	No	260
62	110mm Bend	No	45
63	50mm Junction	No	130
64	110mm Junction	No	24
65	110mm Pan connector	No	189
66	110mm Bend pan connector	No	189
67	50mm Access bend	No	520
68	110mm Access bend	No	438
69	50mm Access junction	No	37
70	50mm Access junction	No	93
71	110mm Access junction	No	114
72	110 x 110 x 50mm Access reducing junction	No	24
73	50mm "GI Two-way" vent valve	No	8
74	110mm "GI Two-way" vent valve	No	86
<u>Sundries</u>			
75	Wire balloon grating in top of pipe not exceeding 100mm diameter	No	96

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"ROFO SALES" Floor drains

76	"Rofo Sales" Stainless steel floor channel as code ROC250 complete with stainless steel grating and VWW 200 trap (falling towards grease trap)	m	65
77	"Rofo Sales" floor drain grease trap	No	4
78	"Rofo Sales" RO 125V (H) NW 50 Stainless steel floor drain with tamper proof lid	No	4

TESTING

79	Testing waste pipe system		Item
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WATER SUPPLIES

GENERAL NOTES TO TENDERERS

All threads to be BSP Standard.

All flanges to be manufactured and drilled to SANS 1123.

All GMS pipes and fittings 150mm NB and smaller to be hot galvanized to SABS EN 10240: 1997 with an average thickness of 70 microns unless otherwise specified

All steel components, bolts, nuts and washers to be hot dip Galvanized to ISO 1461:2000.

All welded fittings and Flanges to be documented as per specification WPS and welders must be qualified to WQR. All weld must be 100 % visually inspected inside and out and 10% dye penetrate inspected before galvanizing.

Main supply shown is diagrammatic only. Plumbing subcontractor is to establish existing pipework on site for Engineer to approve.

All copper pipework to be ASTM B88 type M copper pipe 460/2 for pipes specified in ducts and 460/2 for pipes chased into plaster.

Copper tubing must be securely fixed to the walls with Brass Holder Bats.

Malleable copper fittings must be used where it is required to connect to fittings.

Pipework must be neatly set out to be plumb and level.

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For pipes that are chased in, the plumber is to chalk in positions of all pipe runs for approval of the Engineer before proceeding with the installation.

Copper tubing solder, fluxes and method of soldering to be as per SANS 460.

Copper based fittings for copper tubes must comply with SANS 1067 - 1 or SANS 1067-2 as relevant.

Each installation must be hot left and cold right.

All welds to be full penetration to BS 534 and fillet weld to be 80 % of wall thickness or a minimum of 5mm.

All buried fittings to be wrapped in "DENSO Mastic Blanket" tape.

All Steel pipes and fittings to be 6mm wall thickness to SANS 719 unless otherwise specified.

WATER SUPPLY

Plumber to work on the nearest and shortest routes using the least number of bends and fittings to be approved by the Engineer.

The installation shall be properly coordinated with other services and cross overs must be avoided wherever possible.

Position of coiled expansion loops and offsets to be indicated by plumber and approved by the Engineer.

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CHASES & HOLES

Pipework shall not be chased in except where essential.

Chases shall be machine cut with sufficient depth so as not to affect the thickness of the plaster coat. Horizontal chases exceeding 1 meter in length & located in brick or block walls shall not be permitted without the Architects approval.

Reinforced concrete work shall not be chased without the Engineers approval. Holes through walls shall be drilled & not punched.

SHOWERS

Cold & Hot water pressures shall be equalized by taking both supplies off the low pressure side of the pressure reducing valve.

ISOLATING VALVES

The positions and number of Gate valves to be proposed by the appointed plumber and approved by the ENGINEER.

PRESSURE TESTING

Before plastering over or closing in plumbing pipes, all pipe work shall be pressure tested and any leaks made good.

Galvanized steel pipes

80	32 mm Piping fixed to walls or rooftrusses	m	204
81	80 mm Piping fixed to walls or rooftrusses	m	824
82	100 mm Piping fixed to walls or rooftrusses	m	236

Extra over Galvanized piping for fittings

83	32 mm Fittings	No	98
84	32 mm Poly type 4 male coupling	No	16
85	32 mm Bend	No	48

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86	32 mm Insert coupling	No	16
87	32 mm Pental fitting	No	16
88	80 mm Bend	No	308
89	80 mm Insert coupling	No	188
90	100 mm Bend	No	68
91	100 mm Insert coupling	No	64
	<u>Valves</u>		
92	32 mm Shutt-off valve (SABS 226)	No	940
93	32 mm Threaded gate valve	No	64
	<u>The following in valve chamber</u>		
	Excavate for and build water meter chamber including SABS 558 cast iron cover and frame, cast in slab with four 16 mm diameter steel hooks, including formwork, etc.		
94	Type 1: Standard valve chamber size 2040 x 1440 x 850 mm high comprising of 200 mm thick concrete footing with Mesh Ref. 311 (1:3:6), 220 mm thick brick walls, 150 mm thick top slab with Mesh Ref. no. 311 including Cast Iron Lid (Type 9D - 450 x 600) casted into concrete.	No	2
95	Type 2 Ditto, size 2680 x 1760 x 850 mm high including 2 x Cast Iron Lids (Type 9D - 450 x 600)	No	2
96	Polyethylene valve chamber with swinging lid 330 x 220 x 17 kg in roadway, type 10A or 225 x 225 x 10 kg type 118	No	2
	<u>Encasing</u>		
97	20Mpa/19 mm Concrete base, cast around waterpipe	m3	16

WATER SUPPLY

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<u>Class 460/2 copper pipes</u>			
98	15mm Pipes	m	951
99	15mm Pipes chased into brick walls, including making good	m	108
100	22mm Pipes	m	695
101	22mm Pipes chased into brick walls, including making good	m	290
102	32mm Pipes	m	316
103	32mm Pipes chased into brick walls, including making good	m	112
104	54mm Pipes	m	66
105	54mm Pipes chased into brick walls, including making good	m	32
<u>Extra over class 460/2 copper pipes for capillary fittings</u>			
106	15mm Fittings	No	1,047
107	22mm Fittings	No	733
108	32mm Fittings	No	20
109	54mm Fittings	No	10
<u>ELECTRIC WATER HEATERS</u>			
<u>"Approved"</u>			
110	Hydroboil 15 litre water heater	No	19
111	100 Litre horizontal high pressure electric water heater	No	2
112	250 Liter horizontal high pressure, roof installed electric water heater, complete with 400 kPa safety valve, draincock, ballostop, in-line strainer, water station and vacuum breaker. (Ballostop and in-line strainer to be housed in water station at ground level)	No	7
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113	Drip tray to suit 100 litre horizontal geyser with 100mm high upstand with top edge bent over all round including 50mm diameter overflow pipe 3000mm long approximately 3m above ground level	No	2	
114	Drip tray to suit 250 liter horizontal geyser with 100 mm high upstand with top edge bent over all round 25 mm diameter overflow pipe 3 000 mm long approximately 4 m above ground level	No	7	
<u>Valves , etc.</u>				
115	15mm 106SCP fullway ballcock	No	17	
116	PB1.10 RB vacuum breaker	No	17	
117	PH1.1RB "kwikflo" 400 kPa pressure reducing valve	No	17	
<u>LAGGING</u>				
<u>Paper lagging</u>				
118	Two layers of stout brown paper tightly wrapped around 15mm pipe and couplings and tied with wire prior to building in	m	757	
119	Extra for wrapping around fittings	No	479	
<u>Canvas covered sections</u>				
120	Insulation 15mm thick to 22mm pipes and couplings	m	471	
121	Insulation 15mm thick to 22mm pipes and couplings	m	473	
<u>HOLES ETC</u>				
<u>Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter including making good in all trades (paint work elsewhere)</u>				
122	110mm Brick wall, etc	No	115	
123	220mm Brick wall, etc	No	115	
<u>THE FOLLOWING IN FIRE HOSE CONNECTIONS</u>				

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**NEWCASTLE: REPAIR AND RENOVATIONS TO
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	<u>Galvanised steel pipes</u>			
124	25 mm Pipe fixed to walls	m	166	
	<u>Extra over galvanised piping for fittings</u>			
125	25 mm Fittings	No	72	
126	25 mm "Rainbird" model 44RC or similar approved quick coupling valve	No	30	
127	"Rainbird" model SH-2 or similar approved hose swivel	No	30	
128	32 x 25 mm "Plasson" 7030 female adaptor	No	30	
129	Pipe bracket for 25 mm pipe formed of 8 mm U-bolt with nuts and washer, 15 mm diameter x 20 mm long pipe, 50 x 3 mm flat washer with centre hole to accommodate 10 x 100 mm raw bolt fixed to brickwork.	No	30	
	<u>FIRE APPLIANCES, ETC.</u>			
	<u>Fire hose reels, extinguishers, etc.</u>			
130	4,5kg Dry chemical fire extinguisher	No	22	
131	4,5kg Carbon dioxide fire extinguisher	No	2	
132	9kg Stored pressurised dry chemical powder fire extinguisher mounted on and including 22 x 100 x 520mm hardwood chamfered board plugged	No	25	
	<u>The following in fire hose reel, etc</u>			
133	Female adaptor - 7030 32 x 1	No	18	
134	25mm Brass quick-coupling valve as model 44RC	No	18	
135	SH-2 Hose swivel	No	18	
136	100mm Diameter uPVC sleeve not exceeding 250mm long	No	18	
137	Hose reel complete with 30m plastic hose, chromium plated stopcock, shutt-off nozzle and wall bracket	No	18	
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**DUCTS FOR ELECTRICAL AND TELEPHONE
CABLES, ETC**

uPVC pipes

138	50mm Pipes laid in trenches (trenches elsewhere)	m	48
139	110mm Pipes laid in trenches (trenches elsewhere)	m	952

Extra over uPVC pipes for fittings

140	50mm Bend	No	12
141	110mm Bend	No	88

Sundries

142	Excavation not exceeding 2m deep for pipe trenches	m3	176
143	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	16
144	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	8
145	Extra over backfilling to pipe trenches, chambers, etc for compaction to 90% Mod AASHTO density	m3	172
146	Unreinforced concrete encasing to 110mm vertical pipe	m	20
147	Unreinforced concrete encasing to 110mm horizontal pipe	m	20

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	<u>SECTION NO. 2</u>			
	<u>BILL NUMBER 16</u>			
	<u>GLAZING</u>			
	JBCC Work Group No. 150			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	27	
	<u>4mm Obscure glass</u>			
2	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	26	
	<u>6.38mm Obscure laminated safety glass</u>			
3	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	26	
4	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	50	
	<u>Sundries</u>			
5	Putty in external steel window frames (removal elsewhere measured) (provisional)	m	64	
	<u>GLAZING TO WOOD WITH PINNED ON AND INCLUDING BEADS</u>			
	<u>6.38mm Fadeban laminated safety glass</u>			
6	Panes exceeding 0,1m ² and not exceeding 0,5m ²	m2	35	
7	Panes exceeding 0,5m ² and not exceeding 2m ²	m2	15	
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GLAZING TO LOUVRES

4mm Clear float glass:

8	102mm Blades with polished edges fixed into grooves of existing wall cupboard	m	44
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TOPS, SHELVES, DOORS, MIRRORS, ETC

"FRANKE" stainless steel mirrors with bright annealed finish holed for and glued to wall with vandal proof screws

9	Mirror 450 x 750mm high with four screws	No	239
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6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete

10	Mirror 450 x 700mm high with four screws	No	22
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	<u>BILL NUMBER 17</u>			
	<u>PAINTWORK</u>			
	JBCC Work Group No. 152			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>PAINTWORK, ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat Plascon bonding liquid, one universal undercoat and two coats "Plascon Cashmere" paint, colour to architects specification</u>			
1	On internal plastered walls	m2	6,331	
2	On external plastered walls	m2	2,685	
	<u>One coat merit alkali resistant primer, one universal undercoat and two coats enamel paint</u>			
3	On internal plastered walls	m2	162	
	<u>One coat universal undercoat and two coats PVA anti-fungal paint</u>			
4	On internal plastered ceilings	m2	465	
	<u>One coat universal undercoat and two coats PVA paint</u>			
5	On internal plastered ceilings	m2	158	
	<u>ON CONCRETE</u>			
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	<u>Prepare stop and apply, one merit alkali resistant plaster primer and two coats interior quality Plascon Polvin Acrylic paint</u>		
6	On internal concrete ceilings	m2	51
	<u>Clean surface, prime and apply two coats Prostruct 639 Penetration primer and allow to cure for 12 hours between coats. Patch cracks and holes with Pro-Struct 617 epoxy putty. Allow to cure and sand to smooth finish. Apply one coat Pro-Struct 622 Aggregate into the self levelling whilst still wet at the spread rate of 2 kg per 1 m2. Allow to cure for 24 hours. Sweep off excess aggregate and over coat with two coats Pro-Struct 627 at 4 m2 per litre. All in strict accordance to manufacturer's instructions</u>		
7	On screeded floors to falls	m2	227
	<u>ON FIBRE CEMENT</u>		
	<u>One coat alkali resistant primer and two coats 100% acrylic PVA paint</u>		
8	On boarded ceilings and coved cornices	m2	14
9	On fascias and barge boards	m2	138
10	On internal & external cills not exceeding 300mm girth	m	1,223
	<u>ON METAL</u>		
	<u>Wire brush, one coat calcium plumbate primer, one coat universal undercoat and two coats PLASCON Velvaglo</u>		
11	On doors	m2	
12	On door frames	m2	45
	<u>Wire brush, one coat creosote etch primer, one coat merit universal undercoat and two coats universal high gloss enamel paint</u>		
13	Structural steel truss members	m2	1,788

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Degrease, one coat zinc chromate primer, one
undercoat and two coats high gloss enamel paint

14	Windows	m2	3
15	On doors	m2	30
16	On door frames	m2	81
17	On gates, grilles, burglar screens, balustrades, etc (both sides measured)	m2	1,074
18	On rails, bars, pipes, etc not exceeding 300mm girth	m	335

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ON WOOD

Prepare and apply one coat universal undercoat and two coats Plascon Super acrylic polvin: white

19	On tongued and grooved ceilings	m2	453
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Prepare and apply one coat wood primer, one coat universal undercoat and two coats Plascon Velvaglo paint:

20	On doors	m2	1,565
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21	On doors frames	m2	54
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22	On cupboard doors	m2	993
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Three coats polyurethane matt varnish

23	On skirtings, rails, etc. not exceeding 300mm girth	m	3,997
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PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

Previously painted plastered surfaces

Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. All nails shall be removed and holes properly filed. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.

ON PLASTER

Prepare and apply one coat merit alkali resistant primer, one universal undercoat and two coats "Plascon Wall & All" paint

24	On internal plastered walls	m2	3,026
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25	On external plastered walls	m2	1,027
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26	On external concrete columns	m2	83
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27	On internal fibre cement ceilings	m2	572
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28	On external fibre cement cills <u>Prepare and apply one coat universal undercoat and two coats Plascon Super acrylic polvin: white</u>	m	137
29	On concrete ceilings <u>ON WOOD</u> <u>Prepare and apply one coat universal undercoat and two coats Plascon Super acrylic polvin: white</u>	m2	1,982
30	On tongued and grooved ceilings <u>Knot, prime, sand and apply one coat wood primer, two coats PLASCON Velvaqlo to architects specifications</u>	m2	278
31	Door	m2	65
32	Door frames	m2	66
33	On build in cupboards	m2	90
34	Skirting and quadrant bead not exceeding 300mm girth <u>ON METAL</u> <u>Sand smooth with 220 grit paper and apply one coat universal undercoat and one coat "Plascon Velvaqlo Polyurethane Velvet" enamel paint on previously painted steel in good condition</u>	m	75
35	Door frames <u>Sand lightly with 220 grit paper and apply two coats premium quality polyurethane enamel paint on previously painted steel in good condition</u>	m2	134
36	Doors	m2	24
37	Windows	m2	95
38	To steel columns, purlins, etc. of undercover parking	m2	715

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39	Gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	59
40	Rails, bars, pipes, etc. not exceeding 300mm girth	m	185
	<u>Prepare and apply one coat water based galvanized iron primer and two coats UV-resistant water based alkyd roof paint, on galvanised steel</u>		
41	Profiled metal roof sheeting and accessories (measured on flat)	m2	48
	<u>ON SANDSTONE AND FACE BRICKWORK</u>		
	<u>Prepare and apply 2 coats Repello or similar clear brick dressing;</u>		
42	On rubble stone walling	m2	377
43	On face brickwork	m2	3,736

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