

	Metalwork Fabrication
	Handrails and Balustrades
	External balustrades and handrails, in unpainted GMS
1	Handrail in 50x16mm flat bar with 12mm round bar lugs
2	12mm round bar lugs, length 250mm, once bent and epoxied into brickwork wall, depth 80mm. Fixing lugs at max 900mmcc, and max 200mm from ends of hand rail. 50Mm diam x 2.5 polished s/steel cover plate, over fixing to wall. Epoxied to wall.
3	Handrail to balustrade in 50x16 flat bar, welded to posts per layout.
4	Balustrade Posts in 50x15mm flat bar welded to base plates per layout
5	140x100x12mm base plate intermediate post, incl 3 of 12mm holes for 10mm anchor bolts, 80mm length
6	100x100x12mm base plate end post, incl 2 of 12mm holes for 10mm anchor bolts, 80mm length
7	12mm round bar rails at max 100mm cc per layout, welded to posts.
	Internal handrails and balustrades with balustrades in painted, hot dipped GMS and handrails in polished stainless steel.
10	Handrail in 50mm diam x 1.6 gauge stainless steel tube, welded to 12mm stainless steel fixing lugs. Tube welded into continuous length of handrail and incl stop ends.
11	12mm round bar stainless steel lugs, length 250mm, once bent and epoxied into brickwork/ concrete wall, depth 80mm. Fixing lugs at max 900mmcc, and max 200mm from ends of hand rail. 50Mm diam x 2.5 polished s/steel cover plate, over fixing to wall. Epoxied to wall.
12	Handrail to balustrades in 40mm diam x 1.6 gauge stainless steel tube, welded to 12mm stainless steel fixing lugs. Tube welded into continuous length of handrail and incl stop ends.
13	Handrail lugs to balustrades welded to 100x50x4mm s/steel fixing plates for bolt fixing to balustrade posts. Bolts to be s/steel 6mm counter sunk Allen key with posts threaded to suit x 3 ea
14	Painted and hot dipped galvanised Balustrade Posts in 50x15mm flat bar welded to base plates per layout
15	140x100x12mm base plate intermediate post, incl 3 of 12mm holes for 10mm anchor bolts, 80mm length
16	100x100x12mm base plate end post, incl 2 of 12mm holes for 10mm anchor bolts, 80mm length
17	12mm round bar rails at max 100mm cc per layout, welded to posts.
	Sunshading
20	Laterix fixing plate: 200x16 Flat bar with lugs welded at 150mm / 300mm cc per layout. Lugs in 150x160x16 flat bar
	Intermediate supports:
21	203x203x46 UC steel column with lugs welded at 150mm / 300mm cc per layout. Lugs in 150x160x16 flat bar. Columns to have 450x203x12mm fixing plates to ends, with 4x apertures each for 12mm anchor bolt fixings.
	Lugon supports at max 1300mm cc
22	180x50 (PAR) Balau planks.bolt fixed to framing lugs with 8mm Stainless steel bolts, washers and nuts

	Fencing
30	Coated weldmesh fencing panels per project specification 1518-500- item X25
	Wirefence Wirewall code 358, or equal approved, mesh fencing. Comprising mesh in 75x12.5 apertures, 4mm vertical wires and 4mm horizontals. Base material in 220g/sqm Aluzinc coating with finishing in 400 micron coloured thermoplastic finish. Colour (provisionally) Black. Panels of height per layout, max 3000mm width with 4 V- profiles per panel. Fence posts in same finish coat, of max 3600mm length set in concrete pad footings unless indicated on layout..
31	Fencing posts at 3050mm cc, secured to 50x50x3 square tube, 100mm length bracket, welded to 150x70x10 fixing plate, 4 x apertures for 10mm anchor bolt fixing to concrete soffit / concrete wall beam.
32	Framing to gates in 75x50x3 rectangular steel section posts, secured with end plates in 150x70x10 fixing plate, 4 x apertures for 10mm anchor bolt fixing to concrete soffit / concrete wall beam.
33	Fence panel over side hung gate in weldmesh per item 30.
	Product specification. Wirefence Wirewall code 358, or equal approved, mesh fencing. Comprising mesh in 75x12.5 apertures, 4mm vertical wires and 4mm horizontals. Base material in 220g/sqm Aluzinc coating with finishing in 400 micron coloured thermoplastic finish. Colour (provisionally) Black.
34	Panels of height 3000mm width with 4 V- profiles per panel. Fence posts in same finish coat, of 3600mm length set in concrete pad footings Fence panels topped with secure razor wire Flat-wrap on gms straining wires. All installed in strict accordance with manufacturer's specifications.
	Gates
	Weldmesh infill panel gate fabrication.
40	Framing 75x50 rhs with minimum of 4 No. M12 bolts to each side of the frame
41	Gate leaf framing 50x50 square tubing, mitred angles, hot dip galv.
42	Hinges- Bullet hinges with minimum 120° shaft.
43	Latch. 120° T' slide lock, with lock box protection.
44	Infill panel. Per fence attached. Wirefence Wirewall code 358, or equal approved, coated mesh fencing
45	Drop bolt, 120° round bar, with 50x6 flat bat frame and supports, to drop into stainless steel keep concrete fixed into driveway
	General notes
A	All opening sizes to be checked on site prior to manufacture.
B	All galvanised mild steel (GMS) to be hot dipped galvanised in accordance to SANS 121 /ISO 1461 and SANS 763 for heavy duty applications.
C	Any welding done after hot-dip galvanising shall be adequately cold zinc sprayed.
D	Any alternative hinges, locking mechanism, strike plates, peg stays etc to be discussed and approved by architect prior to manufacture.
E	Allowance to be made for gate swing arcs to ensure that the gate, and gate furniture, do not snag on support posts.
	Paint to internal galvanised steel to be per project specification 1418-500. V27 Galvanised / Polyurethane Non-drip Enamel Paint Finish to Metal Work
F	1. Cleaner - Dulux Galvanised iron cleaner 2. Coat 1 - Dulux Primer for galvanised iron 3. Coat 2 - Dulux Trade universal undercoat 3. Coat 3&4 - Dulux Pearlglo polyurethane non-drip enamel

Metalwork List				H.rail	Balus.	Description
		Dwg #		Length	Length	
	Balustrades and Handrails			In Plan	In Plan	
MW01	P20 Parking Area	421			43240	Typical module. 1880Mm x 23 units
MW02	P20 Parking Area	421			4000	
MW03	P20 Parking Area	421			3800	On 5 riser stair. 4 treads + 2150 level
MW04	P17 Lobby/Refuge	422		12600		
MW05	P17 Lobby/Refuge	423		6850		
MW06	G44 Staircase Lobby	422		16800		
MW07	G44 Staircase Lobby	423		8150		
MW08	P19 Fire Escape 1	424		15600		
MW09	P19 Fire Escape 1	425			12500	
MW10	G124 Fire Escape 1	424		19200		
MW11	F48 Assembly Area	425		1500		3 risers
MW12	F48 Assembly Area	425		1500		3 risers
MW13	P22 Fire Escape 2	426		6600		
MW14	P22 Fire Escape 2	427		11550		
MW15	G90 Fire Escape 2	426		6600		
MW16	G90 Fire Escape 2	427		11550		
MW17	F22 Fire Escape 2	426			1500	
MW18	F22 Fire Escape 2	426		1200		2 risers
MW19	F22 Fire Escape 2	426		1200		2 risers
MW20	G1 Entrance					Omitted
MW21	G1 Entrance	428		6300		
MW22	G1 Entrance	428		6300		
MW23	G1 Entrance	428		6300		
MW24	G1 Entrance	428		6300		
MW25	G1 Entrance	428		2700		
MW26	G1 Entrance	428		2700		
MW27	G1 Entrance	429		6600		
MW28	G1 Entrance	429		6600		
MW29	G2 Entrance Lobby	429			7500	

Metalwork List				H.rail	Balus.	
			Dwg #	Height	Length	Length
MW30	G14	Fire Escape 3 & Refuge	430		1800	On 4 riser stair. 3 treads
MW31	G14	Fire Escape 3 & Refuge	431		1800	On 4 riser stair. 3 treads
MW32	G14	Fire Escape 3 & Refuge	430		8300	Up stair. (MOP)
MW33	G14	Fire Escape 3 & Refuge	431	15170		Up stair. (MOP)
MW34	F46	Mechanical Plant Area	432		2700	On 3 riser stair. 2 treads
MW35	F46	Mechanical Plant Area	432		2700	On 3 riser stair. 2 treads
MW36	F48	Assembly Area	421		22200	No level change
MW37	P20	Parking Area	421	2900		On 1:12 ramp. Onto Bwk wall
MW38	P20	Parking Area	421		1950	On 5 riser stair. 4 treads
MW61	P21	Assembly Area	432	4100		On 12 riser stair. 11 treads/landing
MW62	P21	Assembly Area	432	7000		On 12 riser stair. 11 treads/landing
Sunshading				Height	Length	
MW40	G1	Entrance	462		3100	as below
MW41	G1	Entrance	461		6940	Louved sunshading between concrete plinth wall and beam
MW42	G1	Entrance	461		6940	as above
Fences				Height	Length	
MW45	P21	Assembly Area	408.01	3000	14000	Fencing – per spec 500 item X25. Secured to concrete pads in brickwork wall. Height 2400mm
MW46	P20	Parking Area	408.02	2750	8600	Fencing – per spec 500 item X25. In 3 separate parts, incl gate GB2, type F
MW47	P20	Parking Area		2750	7100	Fencing – per spec 500 item X25. In 2 separate parts
MW48	P20	Parking Area		2750	8100	Fencing – per spec 500 item X25. Incl gate GB4, type A
MW49	P20	Parking Area		2750	24550	Fencing – per spec 500 item X25. In 3 separate parts, incl gate GB7, type F
MW50	F48	Assembly Area		3000	9100	Fencing – per spec 500 item X25. In 3 separate parts, incl gate GF4, type D
MW51	F51	Open Yard		3000	13200	Fencing – per spec 500 item X25. In 2 separate parts, incl gate GF1, type B
Other				Length	Number	
MW55		Corner Protectors	48	1000	48	100x100 corner protectors to spec.

REVISIONS			
No.	Description	Date	By

HEALTH DEPARTMENT SIGNATURES

DEPUTY DIRECTOR GENERAL .

HEAD OFFICE PROGRAMME / SERVICE

DISTRICT MANAGER

CEO / MANAGER OF THE FACILITY

DOH PROJECT MANAGER

IMPLEMENTING AGENT PROJECT MANAGER

PROFESSIONAL SERVICE PROVIDER

NAME _____

SIGNATURE _____ DATE _____

ARCHITECT:

ARTEK 4 ARCHITECTS (KZN) CC
Durban: 46 Lena Ahrens Road, Glenwood, Durban 4000
tel: 031 201 0445 fax: 031 201 6609 email:
admindbn@artek4.co.za
Port Shepstone: 19 Tradewinds, Marine Drive, Shelly Beach
tel: 039 682 2447 fax: 039 682 2446 email:
adminps@artek4.co.za



SOUTHERN REGION

Project

WIMS NO. 044044: SOUTHERN REGION: PORT
SHEPSTONE: DEPARTMENT OF HEALTH: PORT
SHEPSTONE: PORT SHEPSTONE HOSPITAL:
NEW PSYCHIATRIC WARD

Drawing Description

MW Index and Fabrication

Scale	Drawn	Date
Consultant Project No. 1518	Drawing No. 420	Rev
DOW Drawing number		Rev
-		-

Stamped by Plans Approval Committee

NOTE:
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE
MATERIAL SPECIFICATION AND FINISHING NOTES.
DRAWING NUMBER: 1518 - 420 INDEX AND FABRICATION