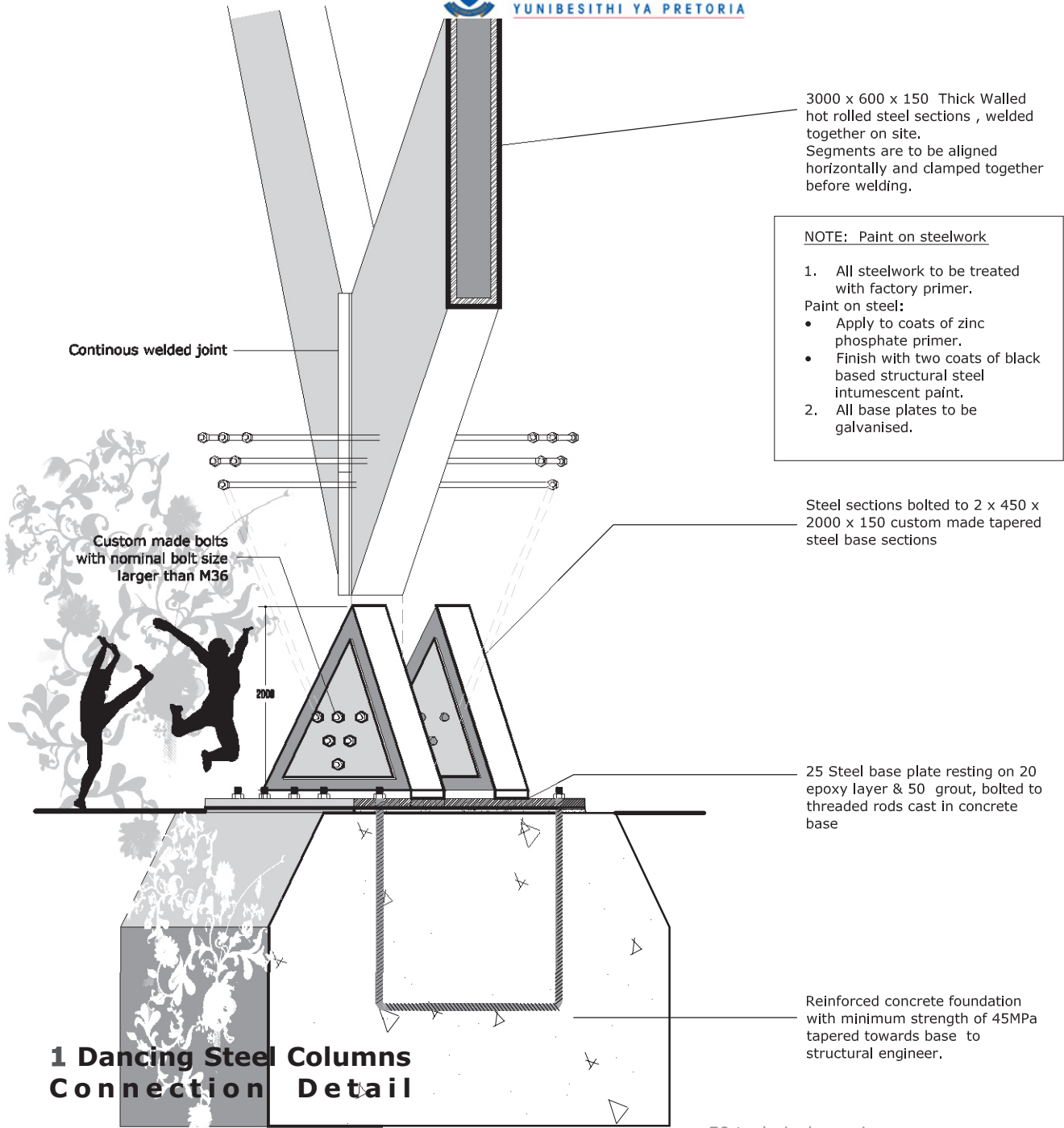




**TECHNICAL ENQUIRY:
Details**



3000 x 600 x 150 Thick Walled hot rolled steel sections , welded together on site. Segments are to be aligned horizontally and clamped together before welding.

NOTE: Paint on steelwork

1. All steelwork to be treated with factory primer.
Paint on steel:
 - Apply to coats of zinc phosphate primer.
 - Finish with two coats of black based structural steel intumescent paint.
2. All base plates to be galvanised.

Continuous welded joint

Custom made bolts with nominal bolt size larger than M36

Steel sections bolted to 2 x 450 x 2000 x 150 custom made tapered steel base sections

25 Steel base plate resting on 20 epoxy layer & 50 grout, bolted to threaded rods cast in concrete base

Reinforced concrete foundation with minimum strength of 45MPa tapered towards base to structural engineer.

1 Dancing Steel Columns Connection Detail



0mm Operable Aerobrse Sun Louvre
ed to 100 x 50 x 3 rectangular
low section to manufactures
specifications

Double glazing safety aluminium
frames window frames to
manufactures specifications

150 x 150 x 2.5 Angle bolted and
welded to beam on site

12mm Powerscreed Floor finish fixed
to bonding slurry onto concrete slab
to manufactures specifications.

45 x 183 x 0.6 Ribbed metal floor
sheet bonded to 100mm reinforced
concrete slab. Shear metal studs
welded through Floor sheet onto
I-Beam

Castellated 610 x 305 x 16 @ 4000 cc
beam to be cut away to achieve flush
with the top of beam

762 X 267 X 25 I-Beam @ 14000 cc
bolted to Steel Columns on site

Custom made 10mm steel gusset,
bolted with M30 Bolts to column and
welded to beam

3000 x 600 x 150 x Thick Walled
pre - Cast Steel sections , welded
together on site.

102 x 4 Hot-rolled circular hollow
section, welded to hollow architectural
connection

2 Floor Connecting Detail

12 Double glazing safety aluminium frames window
frames to manufactures specifications

Purpose cut & welded steel 75 x 50 x 5 angle bolted
to sawn softwood pad

Silicone rubber sealant

Purpose cut steel 1.6 channel bolted to steel angle

Purpose cut & welded steel 130 x 140 x 10 angle
welded to I-beam and steel capping

Purpose cut steel 1.6 channel bolted to steel angle &
I-beam profile

12mm Powerscreed Floor finish fixed to bonding
slurry onto concrete slab to manufactures
specifications

183 x 45 x 0.6 Ribbed metal floor sheet bonded to
100 reinforced concrete slab with 12mm Powerscreed
Floor finish to manufactures specifications

762 X 267 X 25 Galvanised I-Beam bolted to Steel
Columns on site

Castellated 610 x 305 x 16 beam to be cut away to
achieve flush with the top of beam

12 Double glazing safety aluminium frames window
frames to manufactures specifications

Natural Air

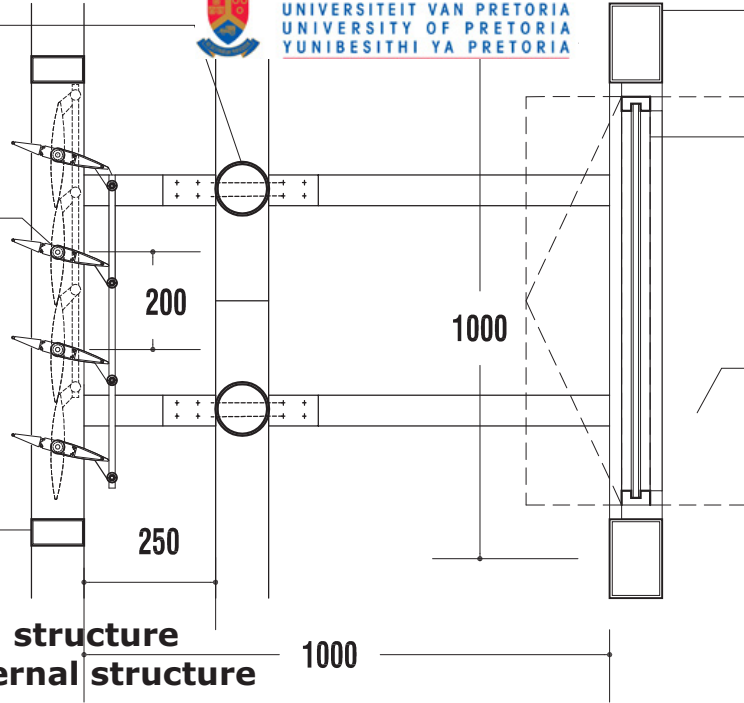
3 Glass to slab detail



102 x 4 Hot-rolled circular hollow section, welded to hollow architectural connection

150mm Operable Aerobrse Sun Louvre fixed to 100 x 50 x 3 rectangular hollow section to manufactures specifications

100 x 50 x 3 Rectangular hollow column welded to 100 x 50 x 3 Rectangular hollow beam @ 1000 centres



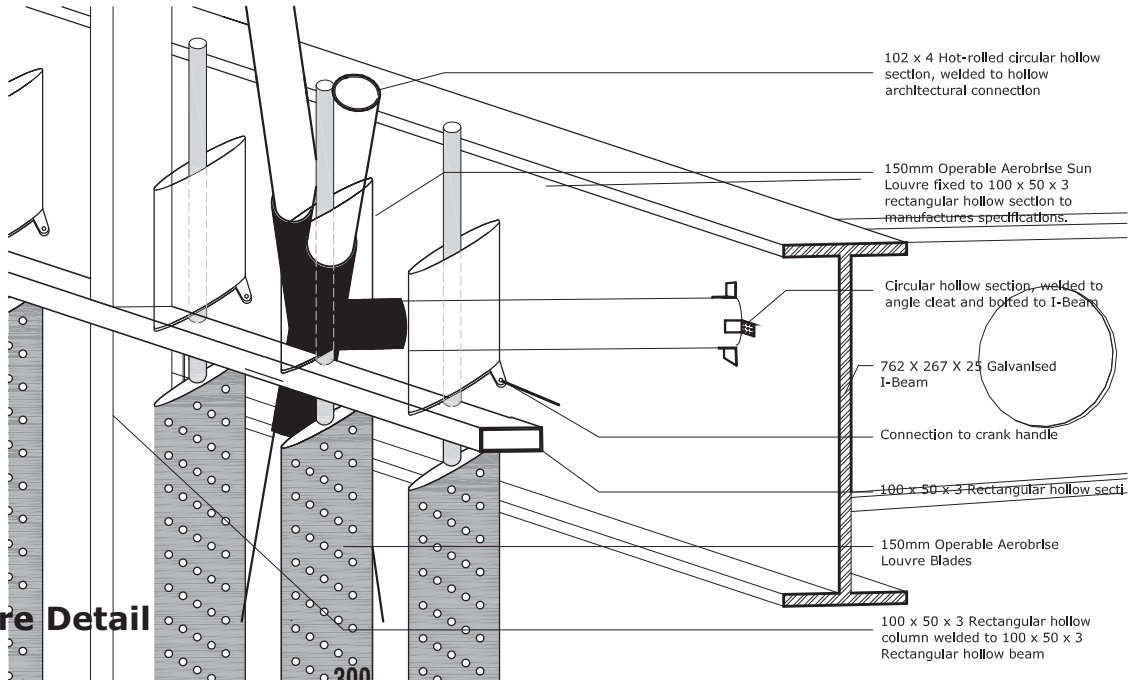
100 x 150 x 3 Aluminium Columns, fixed to 762 X 267 X 25 Galvanised I-Beam @ 1000 centres

12mm Double safety glazing aluminium operable window frames to manufactures specifications

762 X 267 X 25 Galvanised I-Beam

4 Plan of external structure connecting to internal structure

1000



102 x 4 Hot-rolled circular hollow section, welded to hollow architectural connection

150mm Operable Aerobrse Sun Louvre fixed to 100 x 50 x 3 rectangular hollow section to manufactures specifications.

Circular hollow section, welded to angle cleat and bolted to I-Beam

762 X 267 X 25 Galvanised I-Beam

Connection to crank handle

100 x 50 x 3 Rectangular hollow secti.

150mm Operable Aerobrse Louvre Blades

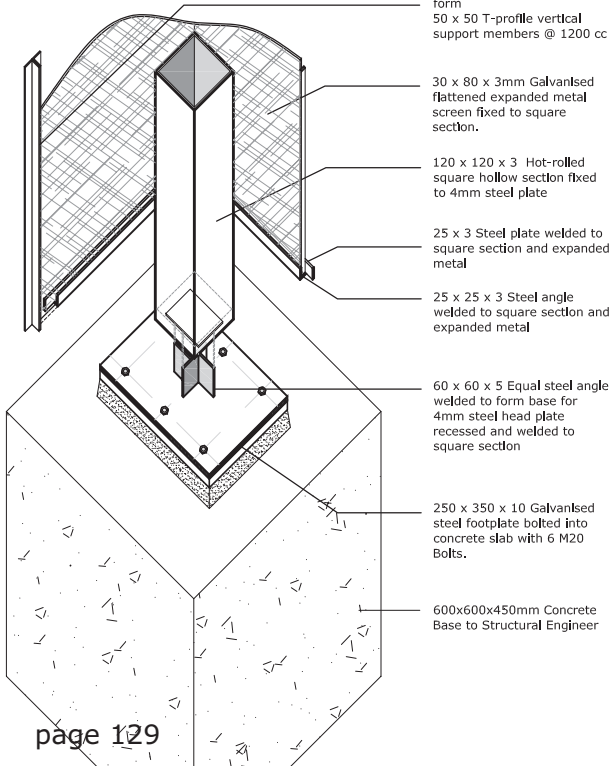
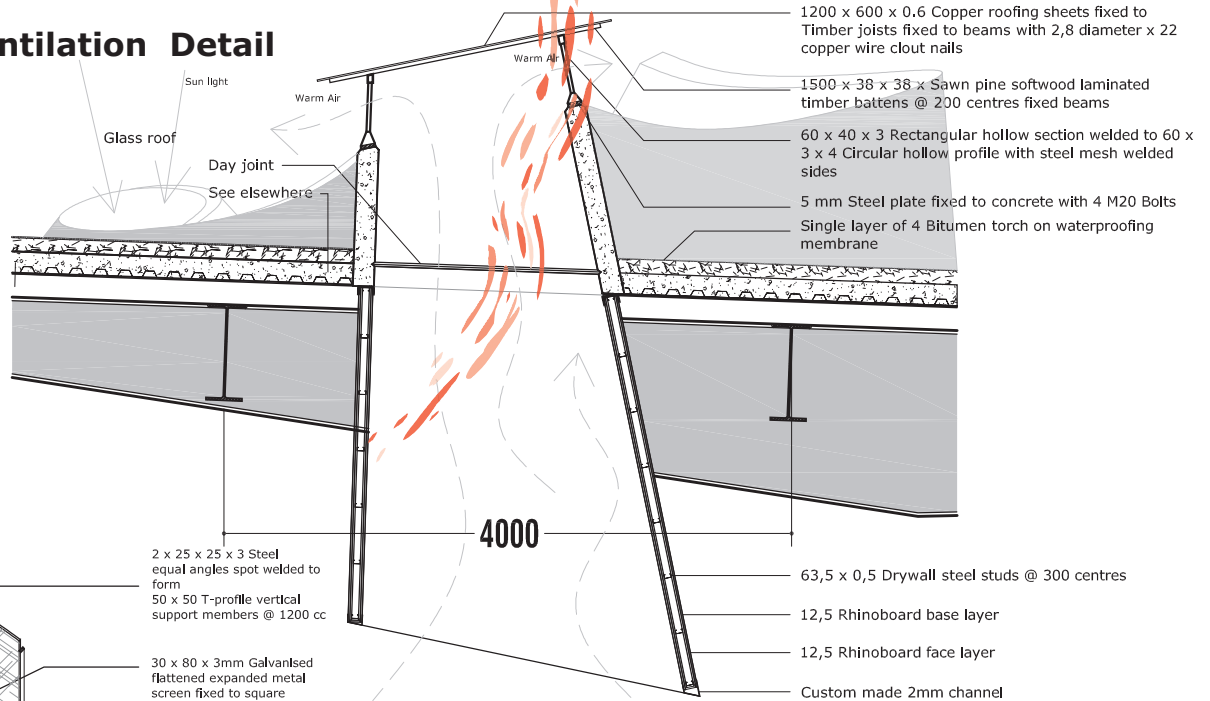
100 x 50 x 3 Rectangular hollow column welded to 100 x 50 x 3 Rectangular hollow beam

5 Sun Louvre Detail

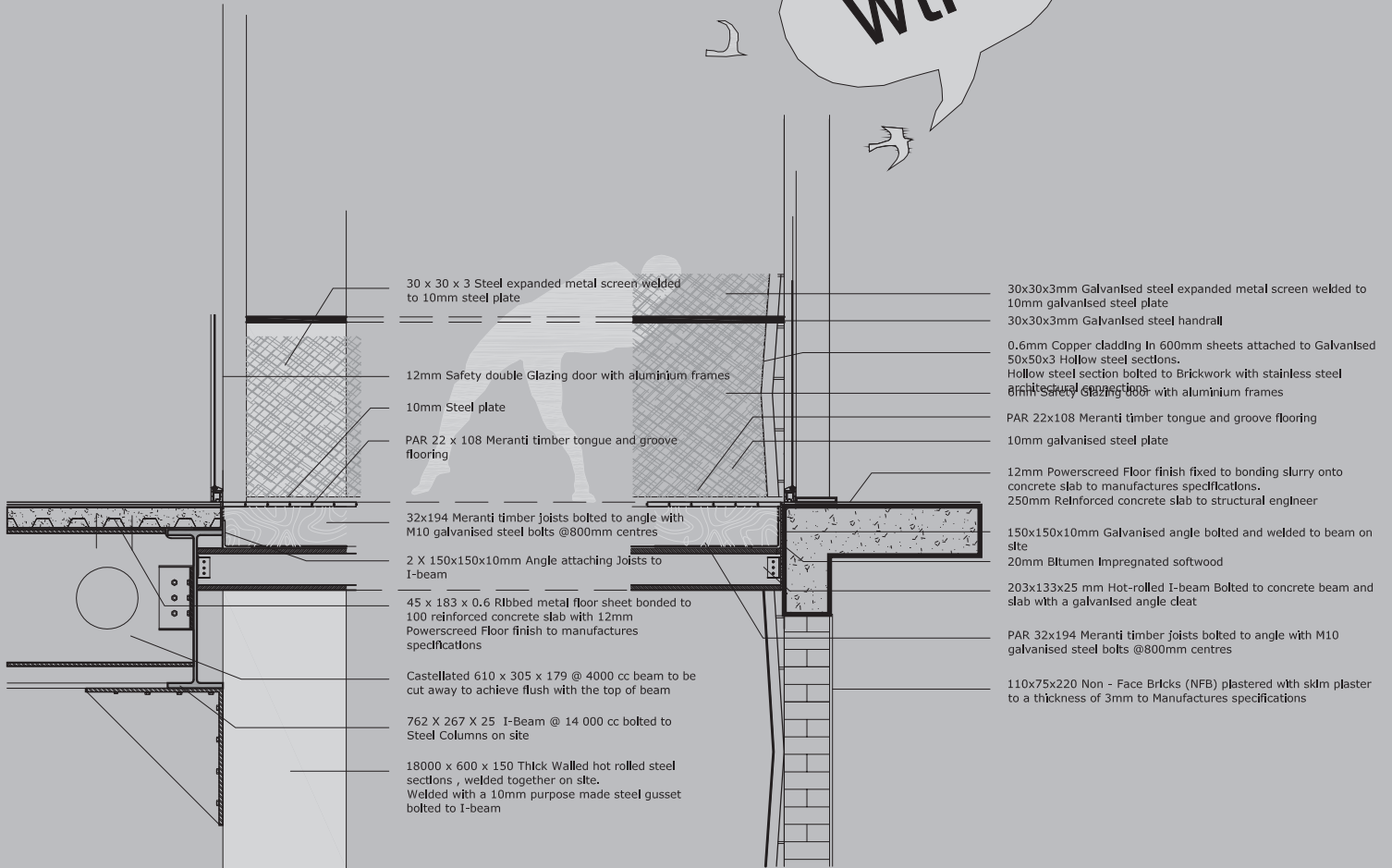
200

300

6 Roof Ventilation Detail



7 Circulation Shaft Base Detail

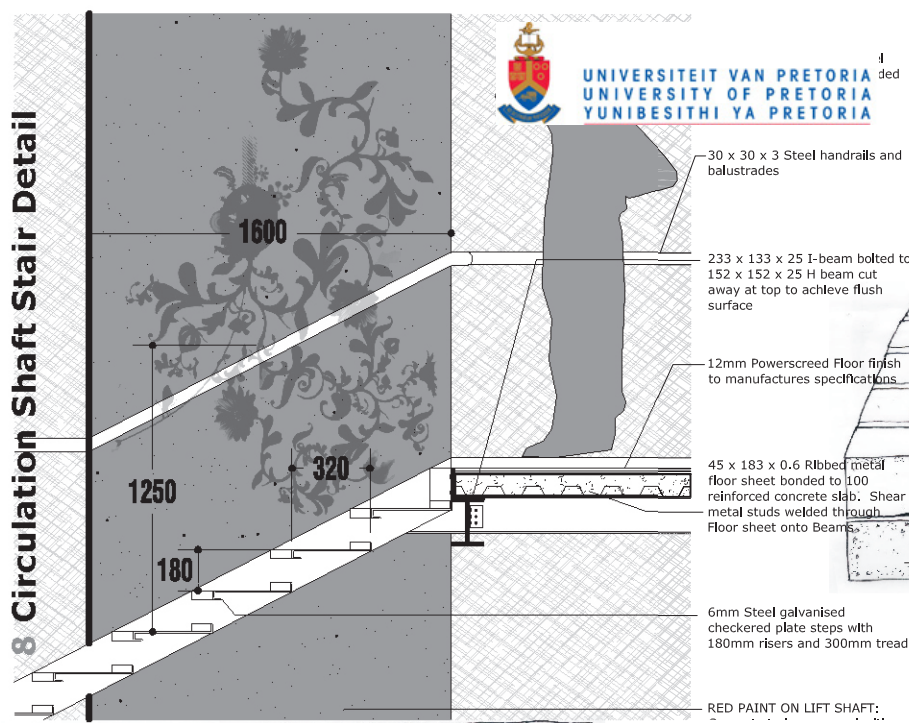


8 Connecting Bridge Detail

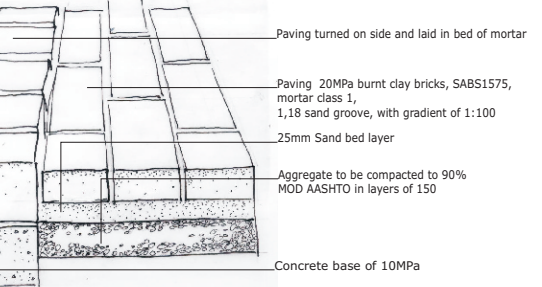


NOTE: PLACING OF HORIZONTAL LINES:
Horizontal and shadow lines to be created by turning pavers on side (refer to 00 Open Air Level for location and direction)

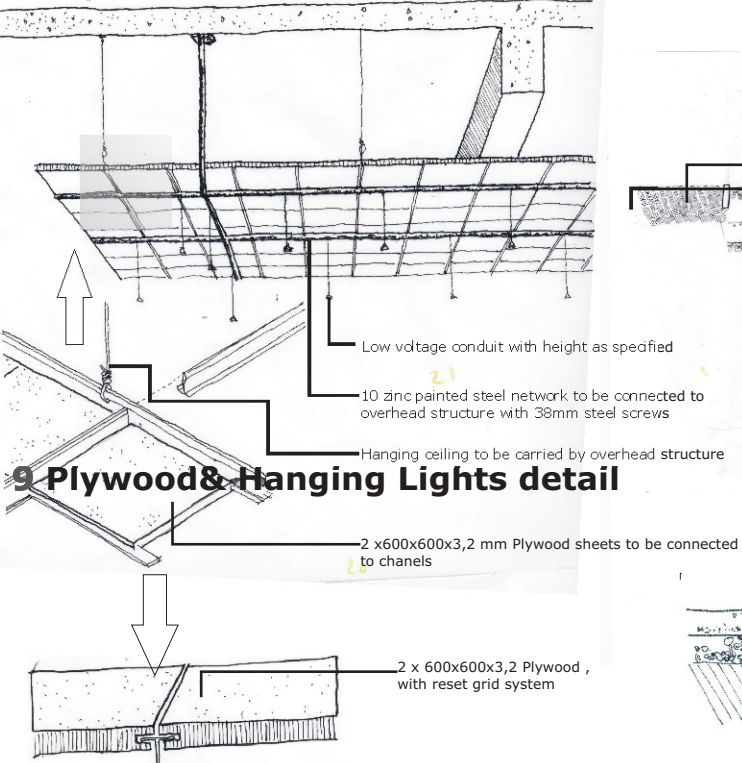
8 Circulation Shaft Stair Detail



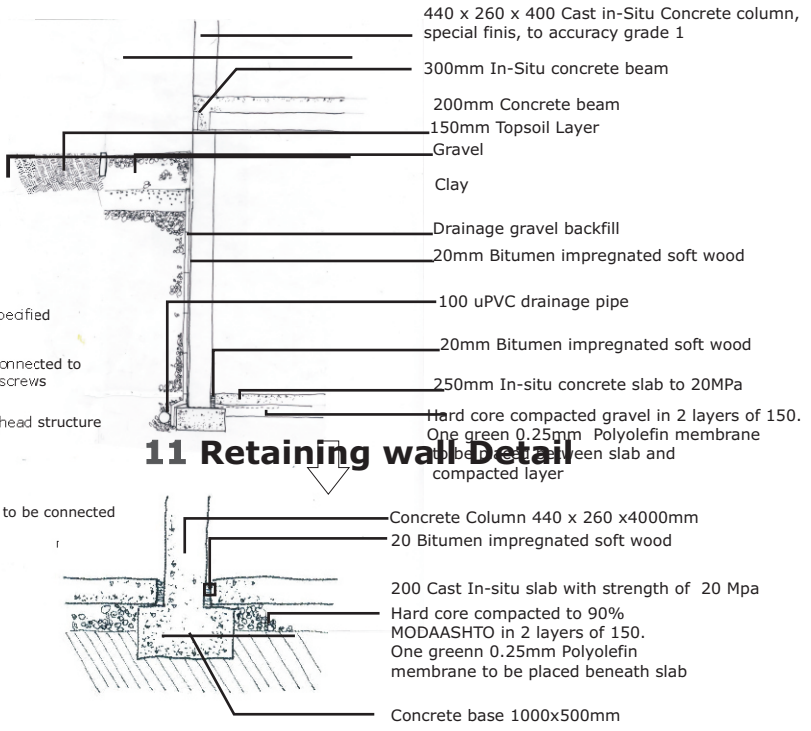
RED PAINT ON LIFT SHAFT:



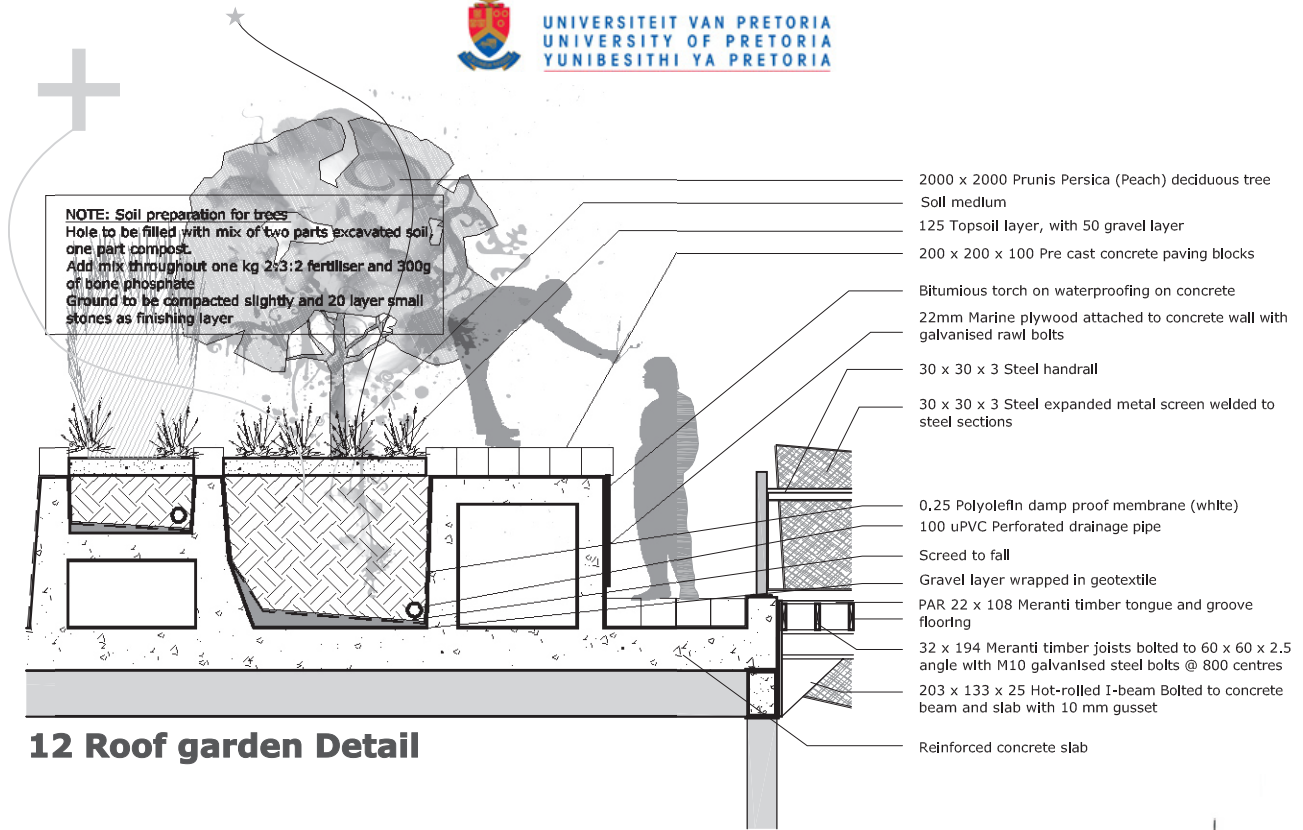
10 Shadow Line Paving Detail



9 Plywood & Hanging Lights detail



11 Retaining wall Detail



12 Roof garden Detail

Beams

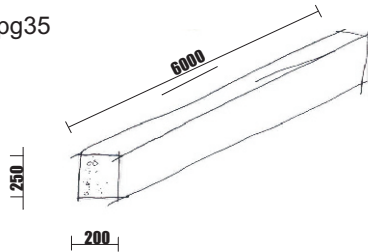
The way we build, pg35

T or L Beam

Pre cast Concrete

$$L/d = 20-30$$

$$l/d = 6000/300 = 20$$



Columns

The way we build, bl33

In-situ columns multi story

$$L/d = 6-15$$

$$l/d = 4/6 = 0.6 = 600mm$$

$$L/d = 6-15$$

$$l/d = 4/15 = 0.26 = 260mm$$



Concrete Floor slab

The way we build pg 34

One way solid slab

pre cast concrete

$$L/d = 22-32 \quad L/d = 22-32$$

$$l/d = 6000/125 = 48 \quad l/d = 6000/250 = 24$$

