This chapter illustrates the resolution of the design on a technical level.

TECHNICAL RESOLUTION
NORTH ELEVATION - NORTH BUILDING
1:200
NORTH ELEVATION - SOUTH BUILDING
1:200
200 x 200 x 10mm painted steel equal angle, fixed to reinforced concrete slab with M10 chemical bolts

30mm concrete screed, sealed

170mm reinforced concrete slab to engineer’s specification

330 x 330mm reinforced concrete column behind

6mm painted steel plate edge, bolted to slab with M10 chemical bolts

6mm safety glass sky light fixed to channel with double sided tape, sealed

125 x 75 x 20 x 2mm galvanised steel lipped channel gutter, sloped minimum 1:200 towards waterproofed roof

2mm custom-made steel gutter plate, painted

M8 galvanised steel threaded rod, cast into concrete, gutter plate fixed with galvanised steel nut

150mm x 340mm reinforced concrete beam, to engineer’s specification
6mm steel flat plate upright @ 1m c/c, welded to flat plate base and rail, painted

6mm steel flat base plate, welded to unequal angle

305 x 130 x 10mm unequal angle, fixed to concrete floor with M10 chemical bolts, painted

40mm topping screed with 30mm sealed Africote finish, control joints @ 3000mm c/c

330mm off-shutter reinforced concrete wall

60 x 60 x 4mm steel equal angle welded to flat plate uprights, painted
**DETAIL 4**

**VERTICAL GARDEN TO G-SKY**

**MANUFACTURER’S SPECIFICATIONS**

1:50

- **102 x 133 x 5.8mm stainless steel T-section**
- **50 x 50 x 4mm stainless steel angle iron container frame**
- **30mm mulch**
- **180mm top soil**
- **Indigenous deciduous creeper to specialist’s specification**
- **Stainless steel grating walkway**
- **3350mm weathered steel perforated skin**
- **330 x 680mm operable perforated panel**
- **30 x 30 x 2mm pre-oxidised steel angle frame**
- **150 x 65 x 20 x 3.5mm pre-oxidised steel lipped channel edge, welded to T-section**
- **1500mm drain - expanded obsidian**
- **Soil filter with soil securing pin**
OPERABLE PANEL ELEVATION 1:10

10 operable panels cut from 1 sheet, excess used for cold formed sections and hinges

1225 x 2500 x 1.6mm weathered steel standard plate

330 x 680 x 1.6mm perforated weathered steel plate, welded to angle frame

25 x 25 x 2mm pre oxidised steel angles welded together to form custom made T section, welded to horizontal

25 x 25 x 2mm pre oxidised steel angle horizontal support, welded to

25 x 25 x 2mm pre oxidised steel angle, fixed to angle frame with pre-oxidised steel hinge to detail

25 x 25 x 2mm pre-oxidised steel angle, welded to lipped channel

100 x 50 x 2mm pre-oxidised steel lip channel column, welded to pre oxidised channel

WEATHERED STEEL SHEET 1:50

PLAN PERFORATED WEATHERED STEEL SKIN 1:50
**DETAIL 7**
**ROOF EDGE 1:20**

- 75 x 50 x 2.5mm pre-oxidised steel unequal angle bolted to lipped channel with M8 mild steel bolt
- 125 x 65 x 2mm pre-oxidised steel lipped channel purlin, fixed to T-section with pre-oxidised self-tapping screw
dekex 750 galvanised steel profile @ 2 degree angle towards gutter, fixed to lipped channel with self-tapping screws, nylon washer in between
- 125 x 65 x 2mm pre-oxidised steel lipped channel purlin
- 100 x 60 x 2mm custom made galvanised steel gutter
- 270 x 270 x 10mm pre-oxidised steel custom made equal angle, connected to reinforced concrete floor to engineer's specification

- 96 x 15mm bamboo planks, fixed to T-section with self-tapping screws

**DETAIL 6**
**WALKWAY/CANOPY 1:20**

- tapered 269 x 191 x 96 painted mild steel T-sections welded to equal angle base plate
- 80Ø galvanised steel downpipe fixed to T-section with galvanised steel gutter hanger

**Moisture Retention Mat with Root Stabilizer**
- 6mm aluminium edge
- drainage holes
- engineered growth medium
- sub-surface drainage
- geotextile
- bitumen impregnated membrane waterproofing

- min 40mm screed to fall min 1:70 to gutter

- 85 x 205mm gutter to min fall 1:200 to fulbore inlet, painted with bituminous waterproofing paint

- 20mm drip joint
**DETAIL 8**

**PERGOLA 1:20**

- **74 x 74mm eucalyptus microcorus timber slats**, treated with a pressure impregnated preservative

- **75 x 150mm eucalyptus microcorus timber column**, treated with a pressure impregnated preservative

- **50 x 150mm eucalyptus microcorus timber beam**, treated with a pressure impregnated preservative

- **50 x 150 x 150mm eucalyptus microcorus timber spacer**, treated with a pressure impregnated preservative

- **50 x 150 x 150mm eucalyptus microcorus timber spacer**, treated with a pressure impregnated preservative

  timber column fixed to steel channel with galvanised steel M10 bolt with cap nut

- **40 x 75 x 4.5mm painted mild steel channel**, welded to hollow section

- **32Ø x 2mm painted mild steel circular hollow section**, welded to base plate

- **300 x 300 x 4mm painted mild steel base plate**, anchor bolted to **400 x 400 x 50mm concrete base plate**
DETAIL 9
PLANTER 1:20

- Topsoil
- 110 masonry protective skin
- Waterproofing
- 100mm gravel wrapped in a geotextile
- 40mm min screed to fall min 1:70

DETAIL 10
AIR VENT/POND EDGE/SEAT 1:20

- 40Ø aluminium ventilation grills
- 50mm cobble paving on min 40mm screed sloped south east towards rainwater catchment tank on modified bitumen membrane waterproofing
- 255mm reinforced concrete slab to engineer’s specification