Detail 1 Cinema tower retracting screen detail Scale 1:20

- 0.6 Centurio 700 x 1500 steel profile at 2 degree angle fixed on 6mm bubblefleck insulation, secured to steel purlins with manufacturer’s clip at 1500mm centres.
- 0.55mm Galvanized steel flashing
- 152 x 152 x 30 Steel HeaSection
  - welded to angle and connected to 450 x 450 x 20 primary steel truss
  - 60 x 80 x 2 Fixed angle (equal leg) reinforced with FireSpec fireproofing paste
  - Custom built 450 x 450 x 30mm steel square section as per engineer’s specification. Painted with FireSpec fireproofing paste to provide a fire rating of 120min
  - Butterfly Truss to engineer’s specification minimum depth of 750mm
  - 8mm GK mesh (batten) fixed to 60 x 90 square steel section steel frame.
  - fixed to 450 x 450 x 20 primary steel truss
  - Resinbased insulation mattress placed on suspended ceiling 600 x 600 x 33mm eco-friendly acoustic ceiling tiles
  - Rockwool insulation
  - Retractable perforated cinema screen
  - 125 x 50 x 2 x 2.0 (1.25 kg)
  - Soft white perforated channel
  - Galvanized steel track system
  - 15mm OSB board fixed to 60 x 60 x 2.56 square steel profile with self tapping sheet screws
  - Curtain with solar protection
  - Double glazed unit, 25 mm, 12mm air gap, 8mm glass lined, acoustic and solar protection.
  - 8 mm clear polycarbonate sheet fixed to aluminium frame, fixed to primary steel truss.
  - Curtain and masking as per screen manufacturer’s specification

Detail 2 Cinema tower truss connection and retracting screen Scale 1:20

- Curtain
  - Cinema front channel speaker
  - Hidden behind projector screen and covered with acoustic trimming cove
  - 152 x 152 x 25 Steel HeaSection
  - welded to angle and connected to 450 x 450 x 20 primary steel truss
  - Curtain with solar protection
  - 12mm OSB board fixed to steel channel with self drilling steel screws. Covered with absorbent acoustic carpet.
  - 8 mm clear polycarbonate sheet fixed to aluminium frame, fixed to main screen.
  - Rockwool insulation
  - 60 x 60 x 4.5. Hollow steel section welded to HeaSection to form cinema wall structure.
  - 8mm GK mesh (batten) fixed to 60 x 90 square steel section steel frame.
  - fixed to 450 x 450 x 20 primary steel truss
  - 15mm OSB board, covered in acoustic rated carpet. Fixed to steel with self tapping wood to steel floor screws (5.5 x 90mm)
  - 152 x 152 x 30 Steel HeaSection
  - welded to angle and connected to 450 x 450 x 20 primary steel truss
  - Steel truss to engineer’s specification
  - 60 x 80 x 2 fixed to 450 x 450 x 20 steel truss and connected to steel truss with M16 bolts
  - Custom built 450 x 450 x 30mm steel square section as per engineer’s specification. Painted with FireSpec fireproofing paste to provide a fire rating of 120min
  - 100 x 50 x 3.0 Steel channel welded to 450 x 450 x 20 steel truss. 0.58mm galvanized steel flashing covering exposed underside of outdoor cinema
Detail 6  New basement waterproofing  Scale 1:20

- Existing wall drilled to create weep holes to alleviate water pressure
- 250 x 140 x 90mm concrete blocks
- 200mm x 200mm concrete slab
- 150mm thick reinforced concrete slab on 0.25mm polyethylene membrane
- 290 x 140 x 90mm Concrete modular bricks, with 40mm gaps, to act as water movement and protect DPM waterproofing layer
- 110mm Geo pipe to sump
- 200mm high hose concrete slab with min 1/10 fall to sump
- Existing 200mm thick concrete slab, drilled to alleviate water pressure

Detail 5  Timber outdoor dining deck and mesh screen detail  Scale 1:20

- 8mm Stainless steel (SS) mesh fixed to structural frame consisting of 120 x 60 x 4.0 galvanized hollow steel sections with M12 bolt
- Concrete coping on existing paver wall with drip joint and shadow line
- 175 x 175 x 8 mm custom galvanized steel plate floor connected to existing paver with M12 chemical bolt and bolted to steel frame with M12 bolts
- 30mm Galvanized steel flashing
- 100 x 25 Europeanvision inlaid non-tread timber boards connected to 150 x 50 timber joints with self tapping timber screw
- 100 x 75 x 6 lineal quad galvanized steel angle fixed to concrete slab with M12 chemical bolt and fixed to timber joint with M10 bolt
- Galvanized waterproofing removed, Concrete screed with 1:10 fall towards rainwater outlet constructed. Bitumen impregnated waterproofing layer installed.
- Existing 200mm thick reinforced concrete slab
3D DETAIL INVESTIGATIONS

Fig. 106: Cinema wall construction.

Fig. 107: Western facade detail, with hinged mesh screen for window cleaning.