Figure 9.2: Site Plan (Author, 2011)
Figure 9.3: Lower Ground Floor Plan (Author, 2011)

Technical Resolution
Figure 9.4: Ground Floor Plan (Author, 2011)
Figure 9.5: First Floor Plan (Author, 2011)

Figure 9.6: Second Floor Plan (Author, 2011)
Figure 9.7: Perspective of Section A-A (Author, 2011)

Technical Resolution
Figure 9.9: Perimeter detail (Author, 2011)

Technical Resolution
Figure 9.10: Roof detail (Author, 2017)
Figure 9.11: Rotating floor details from Section B-B (Author, 2011)
Figure 9.12: Rotating floor details from fig. 9.11 (Author, 2011)
SECTION: Mechanical Gear System

108100 galvanised steel gear

2mm galvanised steel base plate supporting steel wave gear, bolted to M12 Hoffman composite flange with M12 bolts

25 spur galvanised steel gear

300 spur galvanised steel gear (soft material/ignore, work to rotate - faint galvanised steel APC frame)

300600 timber flange plate

300600 steel APC frame panels welded to 300600 steel APC frame.

300600 steel APC frame panels

500600 steel APC frame panels

500600 steel APC frame panels

300600 galvanised steel APC Frame

300600 galvanised steel APC Frame

300600600 steel structural frame (ignore)
galvanised and primed with 2 coat zincoat primer (two coat primer), shot with epoxy coating to details
Explosion of Rotating Floor

Figure 9.13: Axonometric details of rotating floor (Author, 2011)

Technical Resolution
M16 bolts
machined steel element
fixed to floor frame &
clamped in ball bearing

200x75 PFC floor frame

ball bearing
M16 bolts

25mm steel plate
clamping ball bearing.

200x200x10 square
hollow section beam

manual turning wheel
rotating floor

composite floor

200x200x10 SHS
floor beam

25 spur gear
15 spur gear axis connecting
worm & 15 spur
worm gear

200 spur gear [half circle]
welded to floor frame
**PLAN: U-profile glass façade detail**

- **R12 series powder-coated aluminum frame (P.A. 86/86)**
- 18000 mm copper strip welded (as per detail) between RH steel rods
- 25 mm galvanized steel rod supplied @ max. 1000 centres, fixed to flat bar with 6x3x100 mm sheet weld
- 16 mm galvanized steel flat bar bent @ max. 1000 centres, fixed to flat bar with 6x3x100 mm sheet weld
- Glass unit (P.A. 86/86)
  - High quality silicone content
  - Glazed 20 A. 1961

**SECTION: U-profile glass façade connection detail**

- **RH Robertson 50 Composite Steel and Concrete Furring, on 20/50 flat 20 g steel permanent framework panels, panels fixed joined together with clips @ 3000 mm centres, GC panels fastened to supporting framework with two self-tapping screws per unit of and bearing points
- PVC insert (P.A. 86/21)
- **S300R3/45/16 series** u-profile glass panels
  - High quality silicone content

- **S300R3/45/16 series** square hollow sections, galvanized and finished with 2 coats of polyurethane primer (Lakw) application, shop varied according to detail.
Figure 9.15: Axonometric details of façade system (Author, 2011)