



CUTAWAY SECTION THROUGH HUB STAIRCASE

1 Column
420 x 200mm fair-faced reinforced white concrete column cast in-situ.

2 Landing
3180 x 1825 x 160mm-thick fair-faced reinforced white concrete landing slab cast in-situ and cantilevering from column. Top surface hand trowelled.

3 Stair
160mm-thick reinforced concrete stair cast in-situ. Top surface hand-trowelled. 320mm goings and 157mm risers. 5mm radius to stair nosings. 14 x 9mm ss (stainless-steel) anti-slip T-section bonded into grooves in top of stair treads.

4 Fixing channel
49 x 30mm galvanised

steel channels cast into edges of concrete slabs with anchors at 250mm centres.

5 Rear plate
143 x 10mm ss plate fixed into channel using countersunk ss M12 bolts at 150mm centres. Bolts screw into heavy duty locking nuts which tighten against channel. Stainless-steel shims between concrete and rear

plate so that plate is level. 56 x 10mm ss bottom plate welded to underside of rear plate to form exposed bottom edge. Gap between bottom plate and concrete packed with steel shims and joint sealed with mastic.

6 Balustrade face plate
143 x 15mm ss plate bonded to bottom of glass balustrade with 1.5mm ionoplast interlayer.

Continuous bracket made up from 33 x 10mm ss plate welded to top of face plate and 20 x 8mm ss vertical plate to hook over rear plate. Face plate secured in place by countersunk ss M6 bolts through bottom plate from underside into pre-tapped holes in face plate. Gap between top plate and concrete packed with steel shims and joint sealed with mastic.

7 Balustrade
21.5mm laminated glass cantilevered balustrade consisting of two 10mm toughened low-iron panes bonded together with 1.5mm ionoplast interlayer.

8 Top plate
21 x 10mm ss plate with 1mm radius edges fixed to top of glass with adhesive.

9 Handrail
40 x 3.2mm-thick ss tube

with brushed finish and welded joints. 320 x 127 x 10mm thick ss brackets welded to tube at nominal 1500mm centres. Brackets fixed to glass in gaps between adjacent sheets with 1.5mm ionoplast interlayer. 100 x 21 x 5mm ss plate welded to top of bracket and bolted to 5mm recesses in top plate using countersunk bolts.