60 x 40 x 3mm stainless steel rectangular handrail sleeved over 50 x 30 x 3mm stainless steel rectangular tube x 100mm long supports welded to 10mm thick shaped support plate welded to the top of 42.2mm diameter stainless steel uprights

Top of balustrade 50.343

40

50

450

1100

50 x 30 x 3mm stainless steel midrail sleeved over 40 x 20 x 3mm rectangular stainless steel supports welded to sides of uprights and secured with stainless steel machine screws

Nvelope Omega 25 x 120 top hat section brackets fixed to L bracket and batten with stainless steel countersunk screws. Bottom of top hat section and screw fixings to be coated with Bauder Liquitec coating lapped onto capping sheet to create waterproof joint

3mm thick purpose made polyester powder coated parapet capping with factory welded butt strap joints fixed to Nvelope Omega 25 x 120 top hat section brackets with colour matched stainless steel self tapping screws.

Top of stone cladding 49.553

485

20

50

75

65

15

Eternit Equitone Materia through coloured fibre cement textured cladding board fixed with Nvelope NV3 secret fix hangers with stainless steel screws. Fixing screw and surrounding hanger to be coated with Bauder Liquitec coating to create a waterproof joint

385

12mm Cembrit ~~companel cladding board~~ fixed to SFS framing NBS reference K11/890A

20mm thick SHG Zarkos ZK01 (honed) reinforced ~~stone cladding by~~ Shackerly (Holdings) Group Ltd. NBS reference H92/110A.

Weathering collar to upright fabricated from 73mm diameter x 3mm thick tube and 3mm thick flat welded to upright

150

Treated softwood batten bolted to top of RHS

Weathering upstand formed from 60.3mm diameter x 2.77mm thick stainless steel tube welded to 3mm thick 300 diameter stainless steel base plate. Junction between tube and base plate to set to suit 1 in 60 tapered insulation to ensure the tube is vertical. Roof membrane to be lapped over and bonded to the top of the base plate

175

150 x 50 RHS to Structural Engineer's details

PAVING 49.243

~~150mm Rockwool~~ rainscreen duo slab. NBS reference P10/217A.

38mm thick Marshalls Argent coarse precast concrete paving slabs supported on Bauder adjustable pedestal supports NBS reference J41 / 465A

~~12mm Cembrit companel~~ cladding board. NBS reference K11/890A.

Bauder LiquiTEC liquid membrane applied around junction of Bauder membrane and lapped up weathering upstand to ensure the integrity of the waterproof membrane

Bauder ~~tapered~~ PIR insulation average thickness 160mm NBS reference J41 / 680E

ROOF DECK 48.850

Roof fixing brackets fabricated from 48.3mm stainless steel tube welded to 400 x 5mm base plate set into recesses and bolted through CLT roof deck with countersunk stainless steel bolts

2.5mm Bauder TEC KSD Mica, aluminium lined, elastomeric bitumen self-adhesive vapour barrier

220mm cross laminated timber roof deck

Code 6 lead flashing fixed ~~to top of timber framing~~ with copper clout nails at 200mm centres NBS reference H71/310C. Vertical joints in flashing to be spaced at ~~1500mm maximum~~ centres and lapped by 150mm minimum. Bottom of flashing lapped over ventilator flasing by minimum 75mm

Code 6 lead flashing fixed over Airtrak AB 0.7mm continuous stainless steel abutment ventilator with integral vinyl coated GRP insect screen clip fixed with stainless steel screws at 200mm centres. Vertical joints in flashing to be spaced at 1500mm maximum centres and lapped by 150mm minimum. Bottom edge of flashing turned up behind stainless steel by minimum 25mm NBS reference H71 / 470

Roofing sheet turned down over Airtrak EA 0.7mm continuous stainless steel eaves ventilator with integral vinyl coated GRP insect screen clip fixed with stainless steel screws at 200mm centres. Bottom edge of lead turned up behind stainless steel by minimum 25mm

~~Code 8 gutter lining~~ NBS reference H10/310E

25 x 100mm square edge treated s.w. gutter lining board laid with 'penny' gaps

~~Lauder Linea 4.2.4 timber~~ acoustic ceiling. NBS reference K40/106.

~~140mm Rockwool Flexi~~ tightly packed between SFS studs. NBS reference P10/250B.

DuPont AirGuard reflective air and vapour barrier fixed to Metsec studs with Tyvec double sided tape. Junctions overlapped by minimum 100mm and sealed with double sided tape and joints with steel beams and columns to be ~~sealed with butyl tape~~. NBS reference P10/310A.

WT04A - 12.5mm British Gypsum Habito plasterboard and 12.5mm Gyproc wallboard fixed to 92mm Gyproc ~~I studs~~ NBS reference K10 / 136B

All concealed steelwork to receive intumescent coating as NBS M61/160A finished as M61/460

1:5 Scale @ A1

0 100 200 300 400 500

Notes:

Drawings are based on survey data and may not accurately represent what is physically present.

Do not scale from this drawing. All dimensions are to be verified on site before proceeding with the work.

All dimensions are in millimeters unless noted otherwise.

Purcell shall be notified in writing of any discrepancies.

ISSUE	DATE	DRAWN	CHECKED	DESCRIPTION
B	25/07/2018	ZB	SS	Specification reference added
A	30/04/2018	GR	GR	
First Issue	24/08/2018	GR	SS	

CLIENT
University of Manchester

PROJECT
Manchester Museum Courtyard

DRAWING TITLE
6137-PUR-MMC-XX-DR-A-0425
Lead roof gutter gird line 1

SIZE & SCALE
1:5 @ A1

DRAWING STATUS ISSUED FOR TENDER

JOB NUMBER 237010

DRAWING NO. 425

REVISION B

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