

First Floor - Roof Decks A, B & C.

Product Material

Roof decks to be high Performance single ply roof membrane system to include vapour control layer, insulation and top layer and all fixings / bonding / flashings / preformed corners / protection layer / lightning clips and all other components in order to complete the full roof system.

Single ply roof membrane system to be designed and installed in full accordance with manufactures design guides / instructions and technical details and all relevant British and European Standards including CE and BBA approval.

The specified roofing system must have British Board Of Agrément certification for:  
Fitness of materials and workmanship  
Resistance to ground moisture and weather  
External fire spread

Roofing material to be verified as fully compatible with any other materials that it will be in contact with (e.g. Flashings, cavity tray dpes etc)

Fire Performance

Fire performance rating to meet/exceed EN 1187: parts 1, 2, 3 and 4 (BS 476: Part 3:2004)  
The material has achieved a classification of Broof(4) in accordance with BS EN 13501-5: 2005 when tested to DD ENV 1187: 2002 + A1:2005, test 4.

Installation

The roofing sub-contractor must be an approved installer by the manufacturer for the roofing system to be installed.  
Falls are generally provided by the roof slab, however where falls are not provided by the roof flab they are to be designed and installed in accordance with the relevant British Standard. Roofs will not be permitted to be laid without a fall.  
Falls to lead directly to outlets (i.e. Level channels should be avoided, where possible). Outlets are to be recessed into sumps to avoid ponding around roof outlet flanges. Standard and site-specific details are to be provided for all junctions.  
Roofing is not to be laid in adverse weather conditions (e.g. High winds, damp conditions or temperature extremes).  
Temporary weather seals are to be provided at the end of each working day to prevent water infiltration. No building materials are to be stored on the finished roof surface.  
The roof finish is to be protected during the works from chemicals, traffic and adjacent or high-level working.

Inspection

Inspections and reports confirming compliance with their quality standards are to be provided by the manufacturer/sub-contractor to the employer. The sub-contractor will ensure that the roof is kept clean during the course of the works and will carry out a final inspection prior to integrity testing.  
Electronic roof integrity tests are to be carried out by the sub-contractor following the final clean. The test results are to be provided to the employer prior to acceptance and handover.

Warranty

Design life 25yrs with no planned maintenance for a min period of 10yrs. Insurance backed warranty to be provided to main contractors requirements for roof preparation, materials and workmanship.

Sustainability

Insulation is to have zero global warming potential and zero ozone depletion potential. Details of the sustainable disposal/recycling of the roofing materials must be provided.

Overall system U-Value 0.18W/m²K.

Other Requirements including Access Arrangements

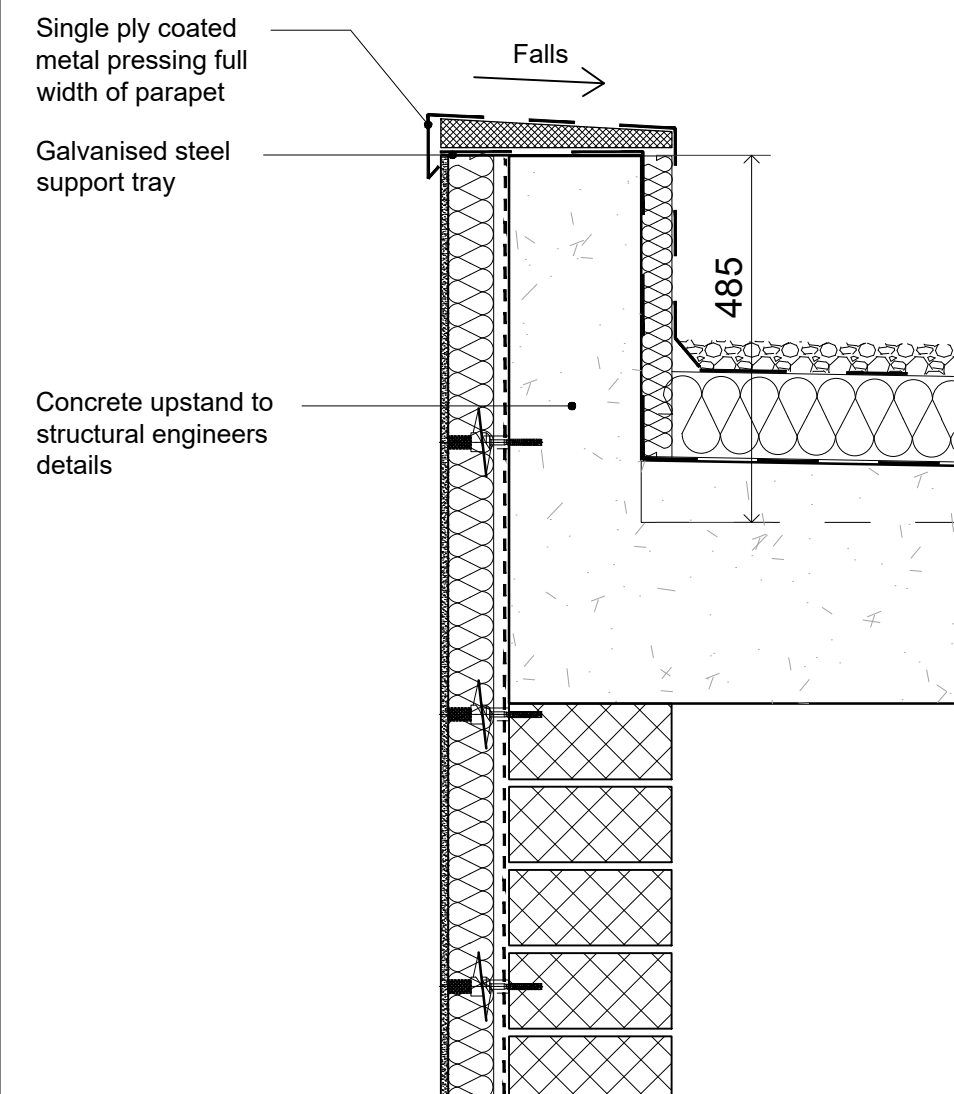
All information given on these drawings is indicative only. A detailed design of roof access (primarily fall restraint) equipment is to be provided by the appointed sub-contractor for design team approval and co-ordination. Roof access ladder (Roof deck H). To be designed and installed by specialist sub-contractors. Sub-contractors detailed design to be in accordance with all relevant British and European Standards including CE and BBA approval.

Specialist roof access sub-contractor to have sufficient professional indemnity insurance to indemnify any risk associated with their detailed design and to confirm insurance provision with tender submission.

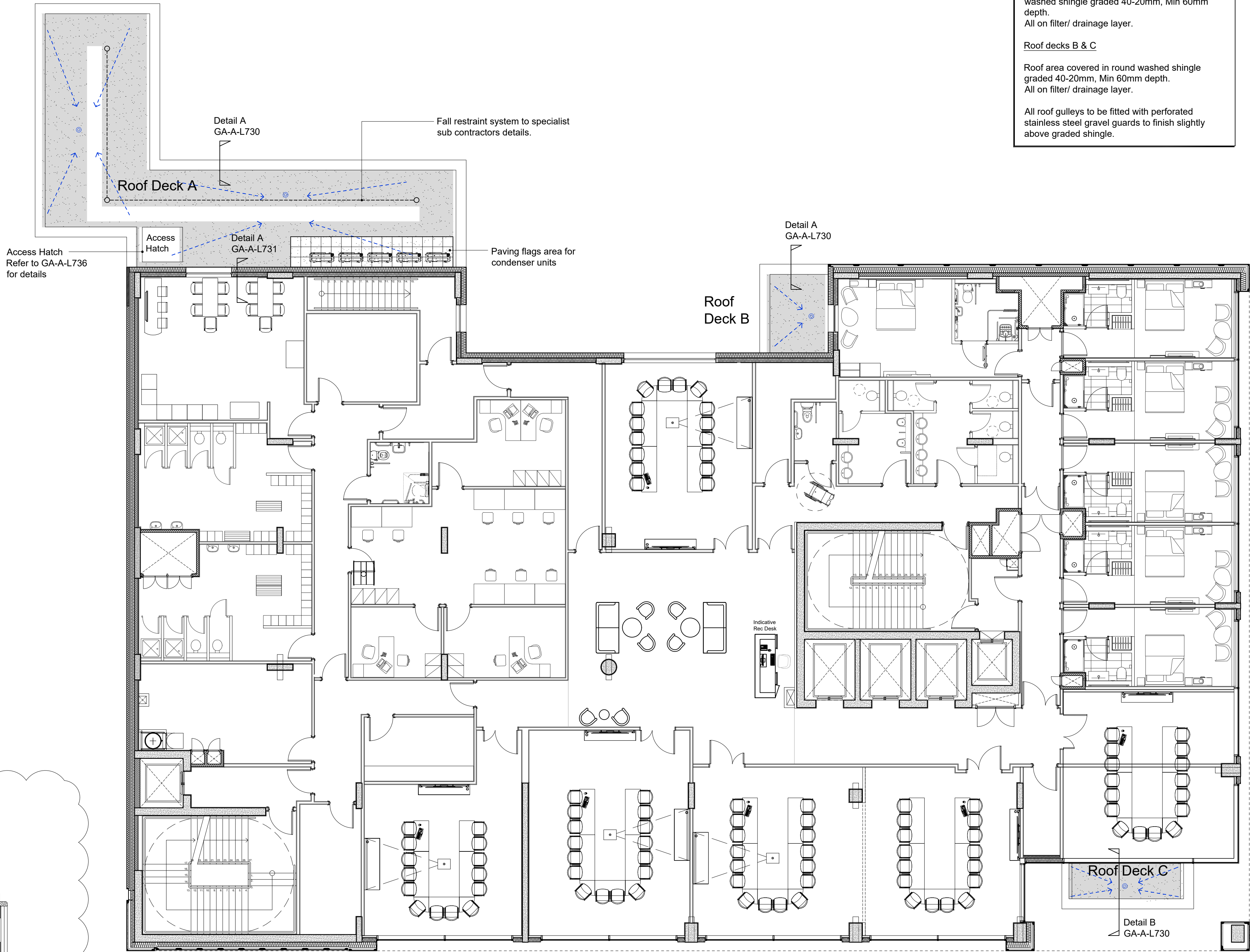
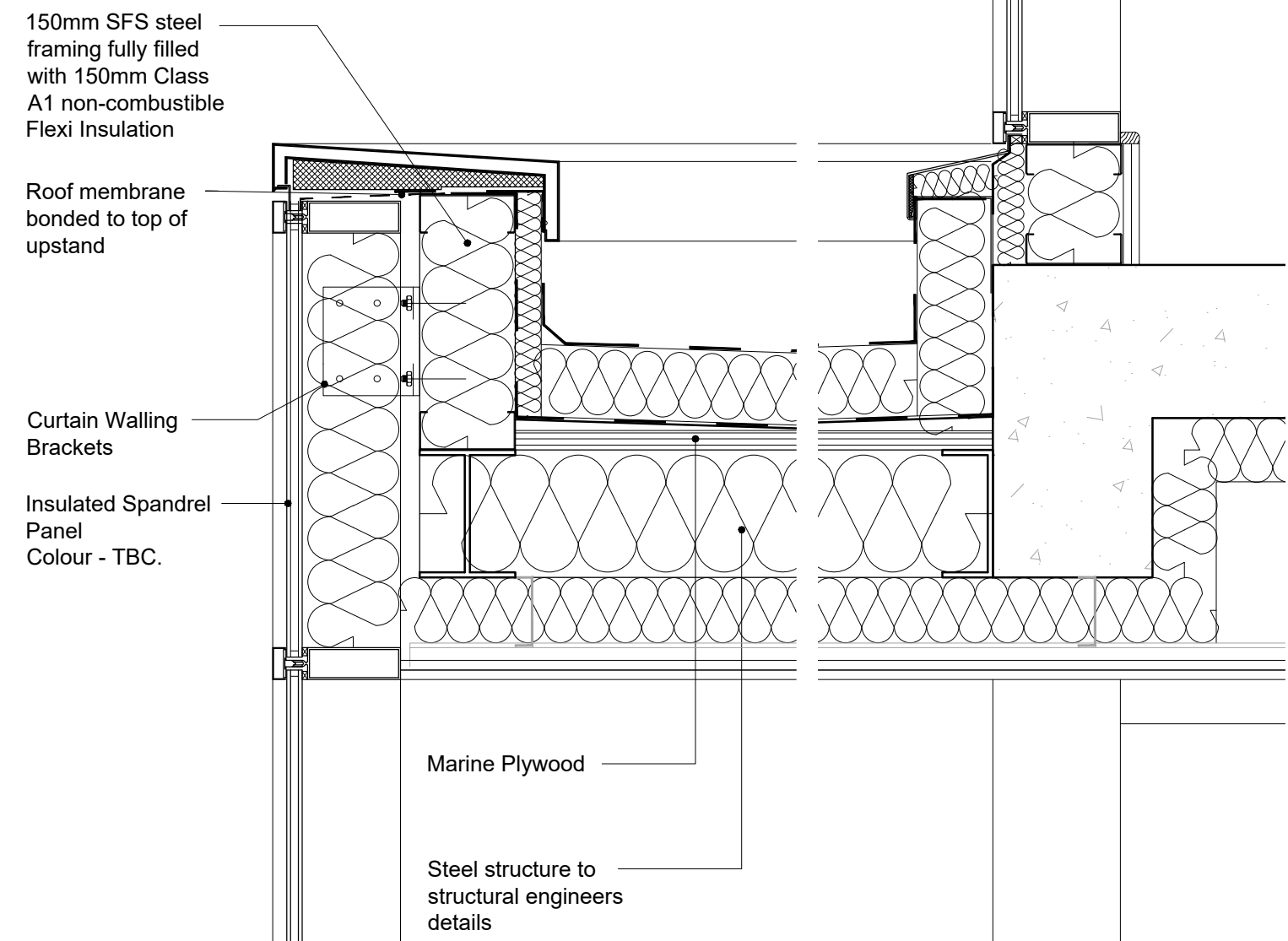
Proprietary support to all M&E plant to be to M&E consultant / sub-contractor design (refer to M&E drawings). Roofing waterproofing finish to be dressed up below proprietary flanges on support to all M&E plant, SVPs etc., as well as up and under roof doorways, parapets, and all similar items.

Access hatches and AOVs to be provided as shown on CDG roofing drawings. Ladders to access hatches and AOVs must be provided with lockable removable climb guards. Access hatches and AOVs to be opened via lockable switch from top landing in stairwells. Facility to open access hatches and AOVs from roof side must be allowed (overriding lockable switch within the building).

Detail A, Typical Coping Detail.  
Scale 1:10



Detail B, Typical Coping Detail.  
Scale 1:10



Roof deck A

400x400 exposed aggregate paving slabs on proprietary pedestals as maintenance walkway. Remainder of roof area covered in round washed shingle graded 40-20mm, Min 60mm depth.  
All on filter/ drainage layer.

Roof decks B & C

Roof area covered in round washed shingle graded 40-20mm, Min 60mm depth.  
All on filter/ drainage layer.

All roof gulleys to be fitted with perforated stainless steel gravel guards to finish slightly above graded shingle.

| revision | drawn | approved | date     | description      |
|----------|-------|----------|----------|------------------|
| A        | AS    | MK       | 13.06.19 | Detail B updated |
|          |       |          |          |                  |

Notes:

Notes:

| PROJECT   |         |            | CLIENT  |                 |          |
|---|---------|------------|---|-----------------|----------|
| Broadway 2  |         |            | ES Renfield Ltd   |                 |          |
| Renfrew Street & Renfield Street, Glasgow   |         |            |   |                 |          |
| CONTENT   |         |            |   |                 |          |
| First Floor Roof Deck   |         |            |   |                 |          |
| SCALE   | SIZE    | DATE       | NORTH   | STATUS          |          |
| 1:100   | A1      | 24.05.2019 |  | For Information |          |
| 1:200   | A3      |            |   |                 |          |
| DRAWN   | CHECKED | APPROVED   | JOB NO.   | DRAWING NO.     | REVISION |
| RL  | CS      | MK         | B17-1796  | GA-A-L730       | A        |
| File No: J20176104736 Broadway Two H&M Glasgow 1, Consarc Drawings 2, Construction 200-368 External GA-A-L730 - First Floor Roof Deck |         |            |   |                 |          |
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Figured dimensions to be taken in preference to scaled dimensions. Site dimensions are to be checked prior to commencement of all work and discrepancies reported immediately.  
DO NOT SCALE THIS DRAWING. All dimensions are in millimetres. © Consarc Design Group Ltd