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MATERIALS SCHEDULE

FAO

Angela Leckie - Manchester City Council.

PROJECT

Bracken House -MANCHESTER

MATERIALS

PROPOSED MATERIALS TO USE ON SITE

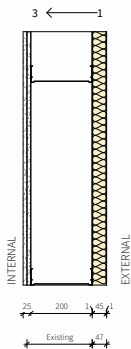


As Existing Wall Construction Types

The below wall types are as per: 'FIRE RISK APPRAISAL EXTERNAL WALLS AND ATTACHMENTS, Bracken House, Charles Street, Manchester, M1 7BD' (prepared by CHPL Fire engineering Ltd and dated 18th Jan 2023)

Wall Type 1 - Steel insulated core cladding

Steel insulated core cladding panels are installed across the top storey of the building only.- refer to elevational drawings



- 47mm insulated core cladding panel (1mm steel sheet, 40mm Rigid insulation, 1mm steel sheet)
- 200mm Existing SFS zone
- Plasterboard lining system

- The risk of fire spread within wall type 5 - steel insulated core cladding leading to injury to building occupants is HIGH and remedial work is required

- Wall type 5 poses a high risk to building occupants due to the omission of cavity barriers on the top floor level which has extended travel distance. The risk regarding life safety from this wall type cannot be considered tolerable.

CHPL Report recommendations -

- Remove combustible materials in wall type 1, 2, 4 and 5 and replace with non-combustible materials according to the current building regulations and approved document B guidance system.

- Install cavity barriers according to the current ADB in wall type 1, 2, 4 and 5

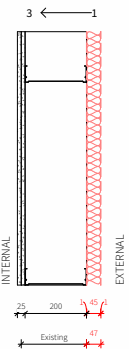
- Install effective firestops around the vent ducts and openings within the cavity according to the current version of ADB.

Proposed Demolition to Existing Wall Construction Types

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- 200mm Existing SFS zone
- Plasterboard lining system

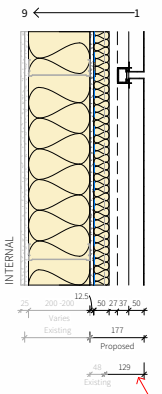
Highlighted red indicates materials that do not achieve A2-s1, d0 or better rating, and therefore will be likely to support significant spread of fire over the external walls.

As Proposed Wall Construction Types

Wall Type to achieve U-value of min. current value of existing wall or min. 0.30 w/m²K in accordance with approved document L Vol 1, Section 11 table 4.3 (b) - TBC with building control officer

Wall Type 1 - Metal Cladding Panels

Proposed Wall construction achieves U-Value of min. 0.30 W/m²K (in accordance with 805-EGL Bracken House Top box U-value)



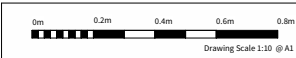
- New Metalline Unity A2 SF 3mm Anodised aluminium Hook on panel (Dark Grey Anodised, Anolok II - B713)
- Min. 50mm ventilated Cavity (approx. 64mm cavity generally)
- New 50mm Rockwool 'Nyrock rainscreen 032' insulation installed around helping hand
- New Carrier system (Top hat with hook on brackets)
- New Isolation/ thermal pads
- New Cortex 0223FR A2 breather membrane
- New 12.5mm Cortex 0270 Score 'N' Snap cement board - installed in accordance with manufacturers details
- 200mm Existing SFS zone
- New additional SFS where required with 200mm Rockwool 'Steel frame slab' insulation to full fill SFS zone
- Plasterboard lining system

Junctions with floors and internal compartment walls are to be protected by correct installation of both vertical and horizontal Cavity Barriers.

Cavity heads, bases and sides of cavities are protected by correct installation of both vertical and horizontal Cavity Closers.

Cavity edges at window openings are to be protected by correct installation of both vertical and horizontal Cavity Closers.

Approx. 129mm (from existing) - based on 50mm Cassette panel, 64mm cavity, 50mm insulation and 12.5mm sheathing board



GENERAL NOTES

- Contractor must ensure that all work on site is carried out in a safe & satisfactory manner, in accordance with Health & Safety At Work Act 1974, COSHH Regulations 2002 & requirements of C.D.M.
- Mechanical & Electrical shown in abeyance - refer to M&E Engineer's drawings and specifications.
- All dimensions shown are to wall structure (Block/Stud) unless otherwise stated.
- Drawings are based on 2D record information (walls SURVEYORS & 53/73 Developments) and will be verified on site by Contractor
- Drawings also based off on site photos (Various Site Photos)

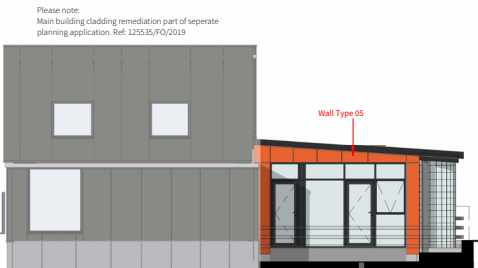
NOTE: DRAWINGS BASED ON THIRD PARTY SURVEY INFORMATION - ALL DETAILS AND DIMENSIONS TO BE CHECKED ON SITE PRIOR TO ANY ORDERING AND FABRICATION OF PRODUCTS AND SYSTEMS.

Image below indicating Proposed anodised panel (Dark Grey Anodised Anolok II - B713) To match lower parts of building colours & as per on site discussion with Manchester planners



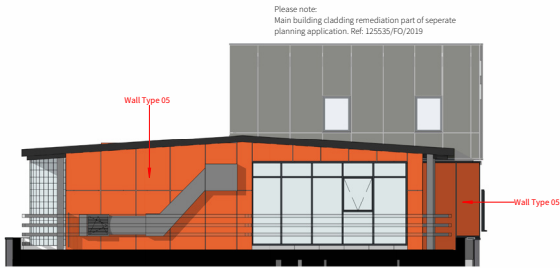
Please note: Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019

1 WallType-01_Top-Floor_East Elevation 1:100



Please note: Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019

3 WallType-01_Top-Floor_South Elevation 1:100



Please note: Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019

2 WallType-01_Top-Floor_North Elevation 1:100



Please note: Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019

4 WallType-01_Top-Floor_West Elevation 1:100

Existing images of wall type found at top floor



Four Architects Limited (11613893)
Notes:
This drawing is copyright.
Do not scale dimensions from drawings.
All dimensions must be checked on site by contractor or suitable qualified individual.
Contractor to report any discrepancies, errors or omissions prior to commencing work.

Notes:

Project Title:
BRACKEN HOUSE

Location:
MANCHESTER

Drawing Title:
Wall-Type-01_Construction-Methodology

Status:
First Issue, Issue for planning

Scale:
As indicated

Job Number:
19-016

Drawing Number:
FA-DR-03-150

Revision:
P1

F

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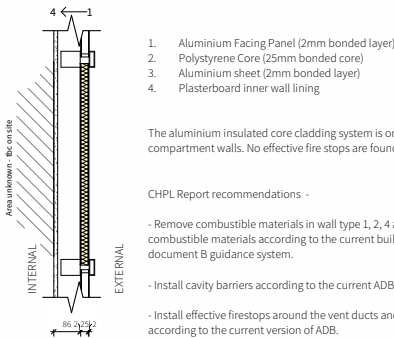
113 Portland Street, Manchester, M1 6DW
Tel: 0161 470 7969 Email: info@fourarchitects.co.uk

As Existing Wall Construction Types

The below wall types are as per: *'FIRE RISK APPRAISAL EXTERNAL WALLS AND ATTACHMENTS, Bracken House, Charles Street, Manchester, M1 7BD'* prepared by CHPL Fire engineering Ltd and dated 18th Jan 2023)

Wall Type 2 - Aluminium insulated core spandrel

Aluminium insulated core cladding panels are installed across the top storey of the building only - refer to elevational drawings

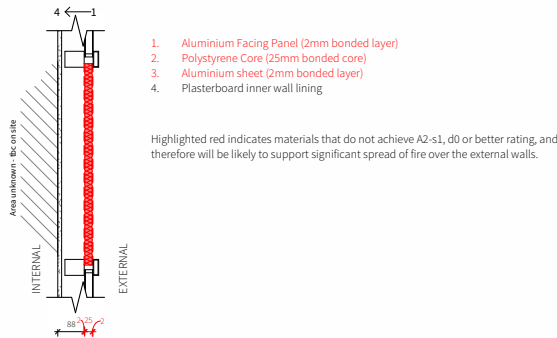


Proposed Demolition to Existing Wall Construction Types

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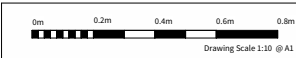
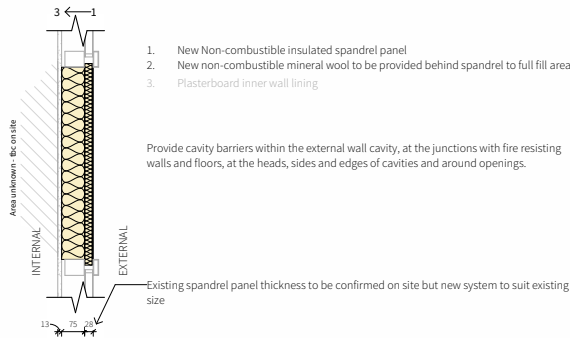


As Proposed Wall Construction Types

Wall Type to achieve U-value of min. current value of existing wall or min. 0.30 w/m2K in accordance with approved document L Vol 1, Section 11 table 4.3 (b) - TBC with building control officer

Wall Type 1 - Aluminium non-combustible spandrel panel

Contractor to install highlighted A2-s1,d0 or better materials in accordance with manufacturers recommended specification/ detail & in accordance with building control & Fire engineer

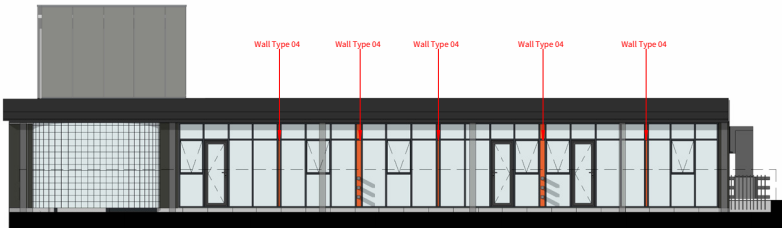


GENERAL NOTES

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Please note:
Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019



1 WallType-04_Top-Floor_East Elevation
1 : 100

Please note:
Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019



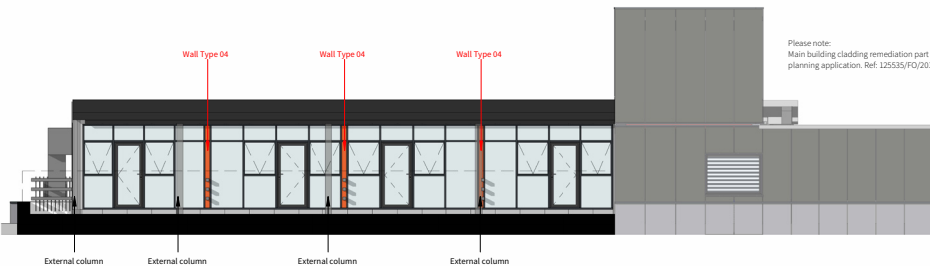
3 WallType-04_Top-Floor_South Elevation
1 : 100

Please note:
Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019



2 WallType-04_Top-Floor_North Elevation
1 : 100

Please note:
Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019



4 WallType-04_Top-Floor_West Elevation
1 : 100

Please note:
Main building cladding remediation part of separate planning application. Ref: 125535/PO/2019

Existing images of wall type found at top floor
Proposed spandrel to match existing spandrel in colour and finish



Four Architects Limited (11613893)
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Notes:

Project Title:
BRACKEN HOUSE

Location:
MANCHESTER

Drawing Title:
Wall-Type-02_Construction-Methodology

Subject:
First Issue, Issue for planning

Scale:
As indicated

Date:
31/07/2024

Job Number:
19-016

Drawing Number:
FA-DR-03-151

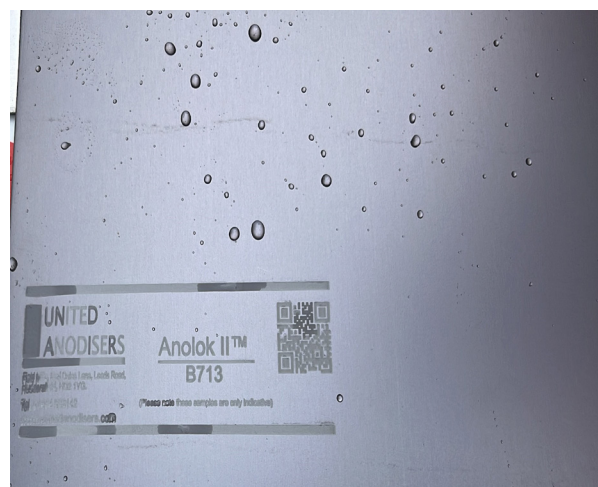
Revision:
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ANODISED CLADDING PANELS



Dark Grey anodised cladding -
Anolok II - B713 (as agreed on site 19/07/2023)



Cladding mock up arrangement (as agreed on site 02/04/2024)

1. Annodised Cladding - As per agreement on site

