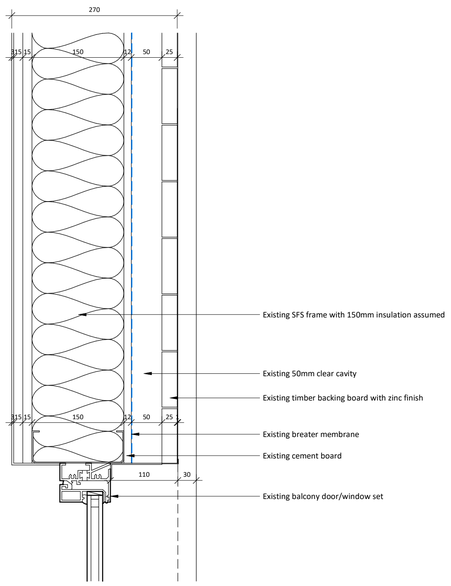
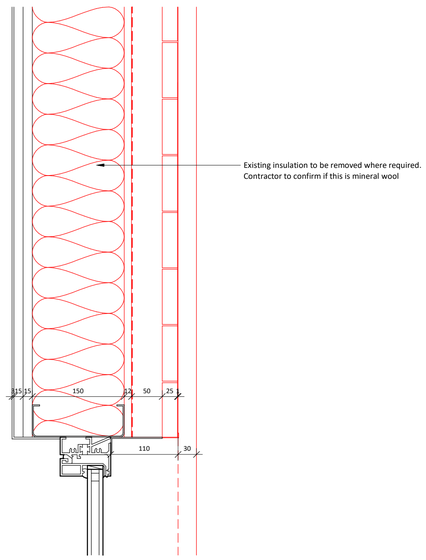
Detail 13

EXISTING CONDITION - ASSUMED



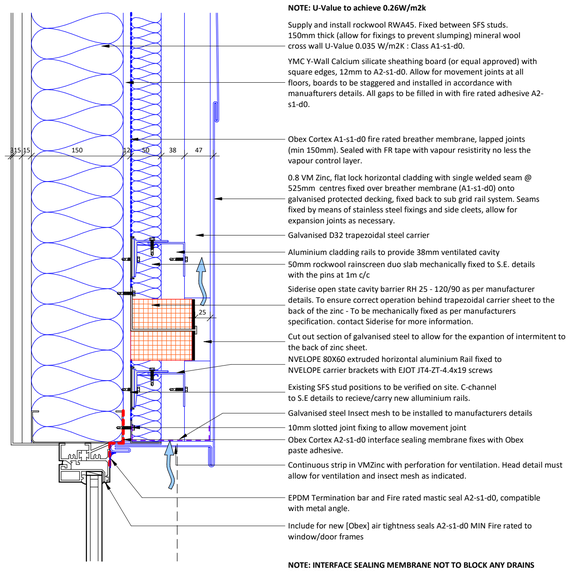
EXISTING PLAN DETAIL 13 - 1:5

REMOVAL



REMOVAL PLAN DETAIL 13 - 1:5

PROPOSED WORKS (CONCEPT ONLY)



NOTE: U-Value to achieve 0.26W/m2k

Supply and install rockwool RWA45. Fixed between SFS studs. 150mm thick (allow for fixings to prevent slumping) mineral wool cross wall U-Value 0.035 W/m2K : Class A1-s1-d0.

YMC Y-Wall Calcium silicate sheathing board (or equal approved) with square edges, 12mm to A2-s1-d0. Allow for movement joints at all floors, boards to be staggered and installed in accordance with manuafturers details. All gaps to be filled in with fire rated adhesive A2-s1-d0.

Obex Cortex A1-s1-d0 fire rated breather membrane, lapped joints (min 150mm). Sealed with FR tape with vapour resistirity no less the vapour control layer.

0.8 VM Zinc, flat lock horizontal cladding with single welded seam @ 525mm centres fixed over breather membrane (A1-s1-d0) onto galvanised protected decking, fixed back to sub grid rail system. Seams fixed by means of stainless steel fixings and side cleets, allow for expansion joints as necessary.

Galvanised D32 trapezoidal steel carrier

Aluminium cladding rails to provide 38mm ventilated cavity

50mm rockwool rainscreen duo slab mechanically fixed to S.E. details with the pins at 1m c/c

Siderise open state cavity barrier RH 25 - 120/90 as per manufacturer details. To ensure correct operation behind trapezoidal carrier sheet to the back of the zinc - To be mechanically fixed as per manufacturers specification. contact Siderise for more information.

Cut out section of galvanised steel to allow for the expantion of intermitent to the back of zinc sheet.

NVELOPE 80X60 extruded horizontal aluminium Rail fixed to NVELOPE carrier brackets with EJOT JT4-ZT-4.4x19 screws

Existing SFS stud positions to be verified on site. C-channel to S.E details to recieve/carry new alluminium rails.

Galvanised steel Insect mesh to be installed to manufacturers details

10mm slotted joint fixing to allow movement joint

Obex Cortex A2-s1-d0 interface sealing membrane fixes with Obex paste adhesive.

Continuous strip in VMZinc with perforation for ventilation. Head detail must allow for ventilation and insect mesh as indicated.

EPDM Termination bar and Fire rated mastic seal A2-s1-d0, compatible with metal angle.

Include for new [Obex] air tightness seals A2-s1-d0 MIN Fire rated to window/door frames

NOTE: INTERFACE SEALING MEMBRANE NOT TO BLOCK ANY DRAINS ON EXISTING WINDOWS

CONCEPT PLAN DETAIL 13 - 1:5

Fire Stopping	**BS 476 Part 20: 1987 BS EN 1366-4: 2006 and classified to BS EN 13501-2**
Cladding	**BS EN 13501-1:2018 Euroclass A2-s1,do – non-combustible**
Sealant at junctions with windows	**Tested to EN 1366-4**

EPDM Cortex 0500FR Class B Cortex 0771FR Class B paste around windows, patio doors and balcony supports

Product specification and details to be contractors design.

FIRE SPECIFICATION
ALL CAVITY BARRIERS IN EXTERNAL WALL TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND DETAILS
ALL EXTERNAL WALL INCLUDING THE CP BOARD TO COMPLY WITH BUILDING REGULATIONS PART B REGULATION 7 MINIMUM STANDARD A2-s1-d0
ALL CAVITY BARRIERS MINIMUM REQUIREMENT TO COMPLY WITH BUILDING REGULATIONS PART B 30min intergrity and 15min insulation (30/15 EI) Horizontal barrier along slab edge to achieve 90/90 where a picture framing approach is adopted.
ALL FIRE STOPS MINIMUM REQUIREMENT TO COMPLY WITH BUILDING REGULATIONS PART B 60min INTEGRITY AND 60min INSULATION (60/60 EI)

EXPANSION JOINT AT EVERY FLOOR LEVEL

ALL DIMENSIONS ARE INDICATIVE AND MUST BE CONFIRMED ON SITE BY MANUFACTURER, SUPPLIER OR SPECALIST PRIOR TO PLACING ORDERS OR COMMENCING WORKS

Ducts
Ducts to be sealed with everflex intumescent fire mate - NOTE: TBC
Rytons non combustible grille as Part of A1 ducting kit - NOTE: TBC

All Service Penetrations
Require inspection specialists to achieve the same fire rating as the structure. Service penetrations to be guaranteed by specisalist and certified. Service penetrations will need to considered to the whole wall beyond the CP board

DESIGN PARAMETERS OF FIXING BRACKETS FOR THE ZINC PANELS
BRACKETS AT 750C/C THROUGHOUT
RAILS AT MAX 600MM OR 700MM DEPENDING ON APPLICATION BUILD UP
TO S.E. DETAILS & CALCULATIONS

ALL ZINC PANELS PROPOSALS ARE INDICATIVE AND TO BE DESIGNED BY FACADE SPECIALIST

To Include where necessary
- **10mm gap for thermal expansion where necessary**
- **Hilti S-AD OLS - 5.5 x 1.9 (Fx5) Steel Tie**
- **Thermal Isolating pad**
- **CS1 Extruded Aluminium angle**
- **MFT - MF1 095 Extended Aluminium helping hand bracket on thermal pad to steel walkway/wall construction**
- **2mm thick Aluminium ceiling/wall panel**

Detail 13
1 : 200

50 0 50 100 150 200 250
SCALE 1:5 mm

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Do not scale from this drawing. Do not take measurements from the CAD base. Any discrepancies are to be reported to the architect for clarification.

All dimensions are to be checked on site prior to construction, manufacture of any components and ordering of materials and equipment.

All materials and workmanship to be in accordance with the current British Standards and codes of practice.

Notes & Caveats

- Integrity of fire protection provided by existing floors & separating walls to be reviewed, client to be advised of any remedial works required and instruction sought.
- Existing Fire Protection to structural frame to be retained throughout. Any concerns over the integrity, prior to or during the works are to be raised with the Building Control Approved Inspector and client.
- All proprietary and brand-named elements (eg. Rockwool, Hilti, et al) must be installed in strict accordance with the manufacturer's written instructions. If in any doubt allow for queries to be reviewed with the manufacturer's technical support team
- **All fire doors and fire stopping must be verified and certified by a third party certifier**
- Aluminium and stainless steel components must not come into contact with each other. If unavoidable, the two must be separated by a membrane barrier to avoid corrosion. Fixings of aluminium & stainless steel components (eg. angles, brackets etc) must be at least 7mm from the surface edge
- All fixings and movement joints to be specified by specialist. All details are to be installed in strict accordance with manufacturers' written instructions. All details are indicative and to be confirmed by manufacturer, supplier or specialist. All existing dimensions must be checked on site by contractor.
- Allow for expansion of all metals via slots if necessary and provide S/S fixing or breaks to prevent accelerated corrosion
- Acceptable contact between alternative metals and zinc. Lead, Aluminium, Galvanised steel and stainless steel.
- Unacceptable contact between alternative metals and zinc. Copper and steel (Non galvanised).

Key

- Existing - to remain and/or be made good in accordance with specification
- To be removed
- To be added
- New cavity barrier / fire stop (see annotations)
- New breather membrane
- New vapour control layer
- New EPDM Class B waterproofing membrane

Rev	Date	Int	Description
5	05/09/23	TP	Balcony detail amended, CP board & fire stop note amended
4	31/08/23	TP	Amended following consultant comments
3	14/07/23	TP	Amended following VMZinc & Contractor Comments
2	12/07/23	TP	Amendments following contractor review
1	06/07/23	TP	Additional notes added

btp ARCHITECTS
RIBA Chartered Practice

CLIENT:
Intelligent FS

PROJECT:
Worsley Mill, Blantyre St, Manchester

DESCRIPTION:
Detail 13 - Typical Window/Curtain Wall Reveal Detail

PURPOSE OF ISSUE:
Planning

DRAWN BY:	CHECKED	DATE:	SCALE @ A1:
AP	VJS	26/06/23	As indicated

JOB NO:	STATUS CODE:	DRAWING NO:	REV
4297	S2	133	5

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