Construction Detail

This drawing provides guidance to achieve indicative performance criteria for specific design conditions

GypLyner Xternal

1 Three layers 15mm Gyproc FireLine fixed with 25mm, 40mm and 55mm British Gypsum Drywall Screws at 300mm centres (200mm centres at external angles)
2 Gypframe MF5 Ceiling Sections at 450mm centres fixed into MF6 Perimeter Channels and to steel angles with British Gypsum Wafer Head Drywall Screws
3 Gypframe MF6 Perimeter Channel
4 Gypframe MF6 Perimeter Channel suitably fixed to soffit at max. 600mm centres
5 Gyproc Sealant for optimum sound insulation
6 Gypframe GA4 Steel Angle suitably fixed to each 'Z' bar
7 50mm stone mineral wool 45kg/m^3 minimum density by others
8 50mm Isover Acoustic Partition Roll (APR 1200)
9 Gypframe GA2 Steel Angle pre-fixed to Gypframe MF6 Perimeter Channel with British Gypsum Wafer Head Drywall Screw at max. 600mm centres
10 Gypframe GA4 Steel Angle fixed through plasterboard to steel angle with British Gypsum Drywall Screws at 600mm centres
11 Two layers 15mm Gyproc SoundBloc fixed with 25mm and 41mm British Gypsum Jack-Point Screws to SFS studs at 300mm centres (up to 2mm metal thickness)
12 Indicative external cladding
13 One layer 12.5mm Glasroc X Sheathing Board fixed with 25mm Glasroc X Screws (max. 2mm metal thickness) at 300mm centres. Continuous 6mm bead of Glasroc X Sealant at board joints
14 Indicative concrete slab
15 One layer 12.5mm Glasroc X Sheathing Board fixed to steel angle with 25mm Glasroc X Screws at 300mm centres. Continuous 6mm bead of Glasroc X Sealant at board joints. Vertical joints backed with Gypframe GFS1 Fixing Strap
16 Indicative intumescent painted beam (see important information)
17 Gypframe GFS1 Fixing Strap to receive uppermost board fixings (no fixings into head track)
18 Indicative Intrastack slotted head track suitably fixed to 'Z' bars in accordance with manufacturer's instructions
19 Indicative Intrastack SFS studs at specified centres suitably fixed to slotted head track in accordance with manufacturer's instructions
20 Indicative 'Z' bars sized and supplied by others suitably fixed to beam at 300mm centres
21 Gypframe GA4 Steel Angle suitably fixed to beam at max. 600mm centres
22 20mm gap sealed with 60mm wide Illbruck ME010 breather membrane tape secured with two beads of Illbruck SP025 adhesive (top and bottom)
23 Isover Polterm Max Plus (thickness to suit specification) suitably fixed through board to SFS studs
24 Cavity barrier where required (see important information)

Important information

Fire resistance BS EN 1364-1

- 60 minutes evidence based opinion through wall (inside to outside)
- 60 minutes evidence based opinion through wall (outside to inside)

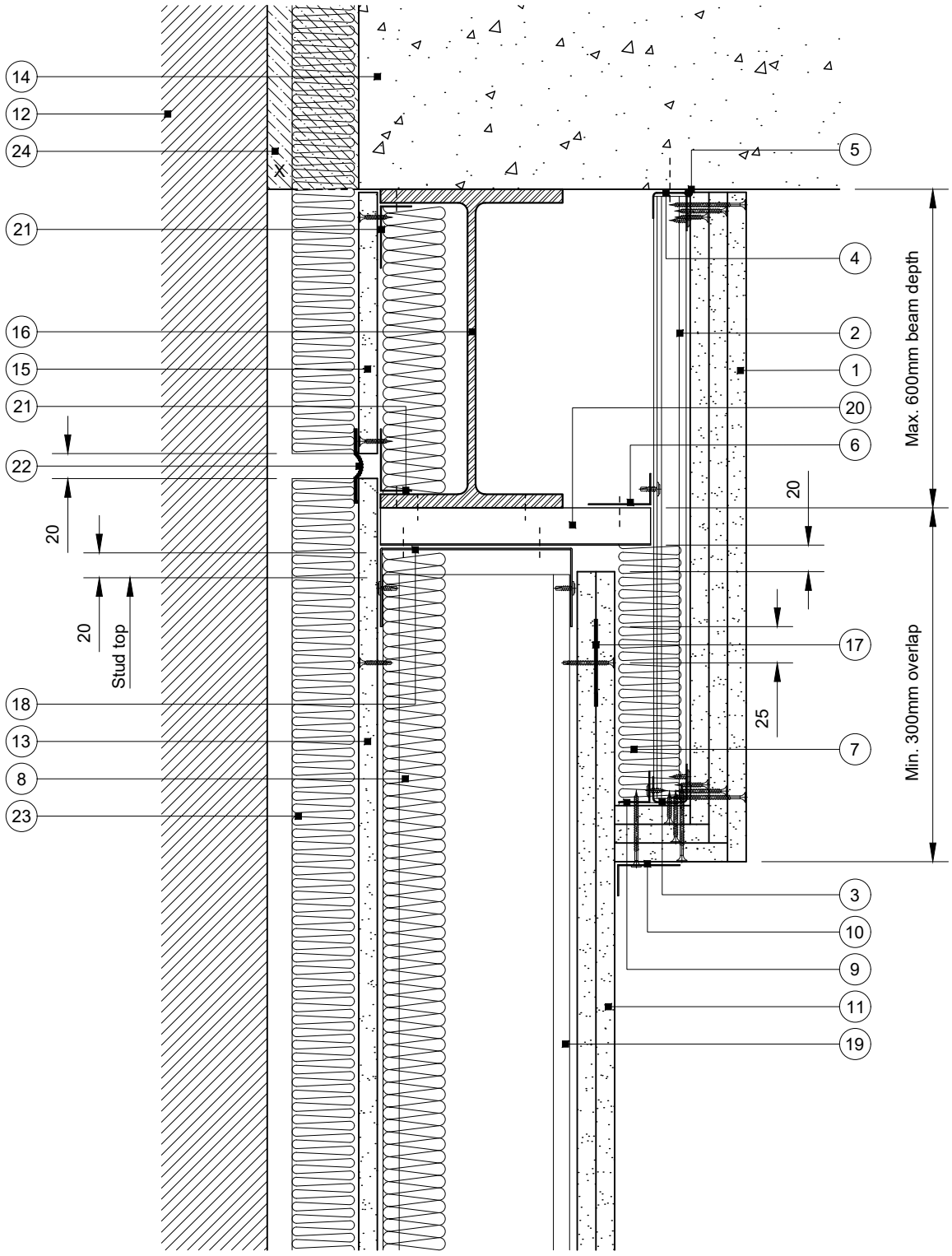
As there is no recognised method for the fire resistance testing of junctions, any performance characteristics, stated or inferred, in this detail are estimated based on each system tested in isolation and other relevant data. The design team need to seek approval of the relevant controlling authority prior to construction

Where drylining systems cloak intumescent coated steel columns or beams, a recommended minimum gap of 50 times the dry film thickness of the reactive coating should be allowed from the steel surface. Where drylining cannot avoid fixing to steel columns or beams, the drylining board should be used in part or as full encasement to provide fire protection. Further guidance can be viewed in the ASFP Technical Guidance Document 13

60 minutes fire protection up to the A/V required to be substantiated by the intumescent paint manufacturer

The exact construction depicted on this drawing has not been tested and assumes materials highlighted with 'X' are capable of maintaining required performances. This MUST be verified with the relevant material manufacturer prior to construction

* The drawing should be approved by the project design and management authority before use to ensure that it meets with their specific project requirements and the overall fire strategy for compartmentation and cavity barrier requirements (as per Approved Document B)



Deflection head

20mm Downward (vertical) movement

Title: Construction detail

Scale at A3: 1:5 **Drawn:** MBH
Date: December 2024 **Approved:** MKF JMC
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