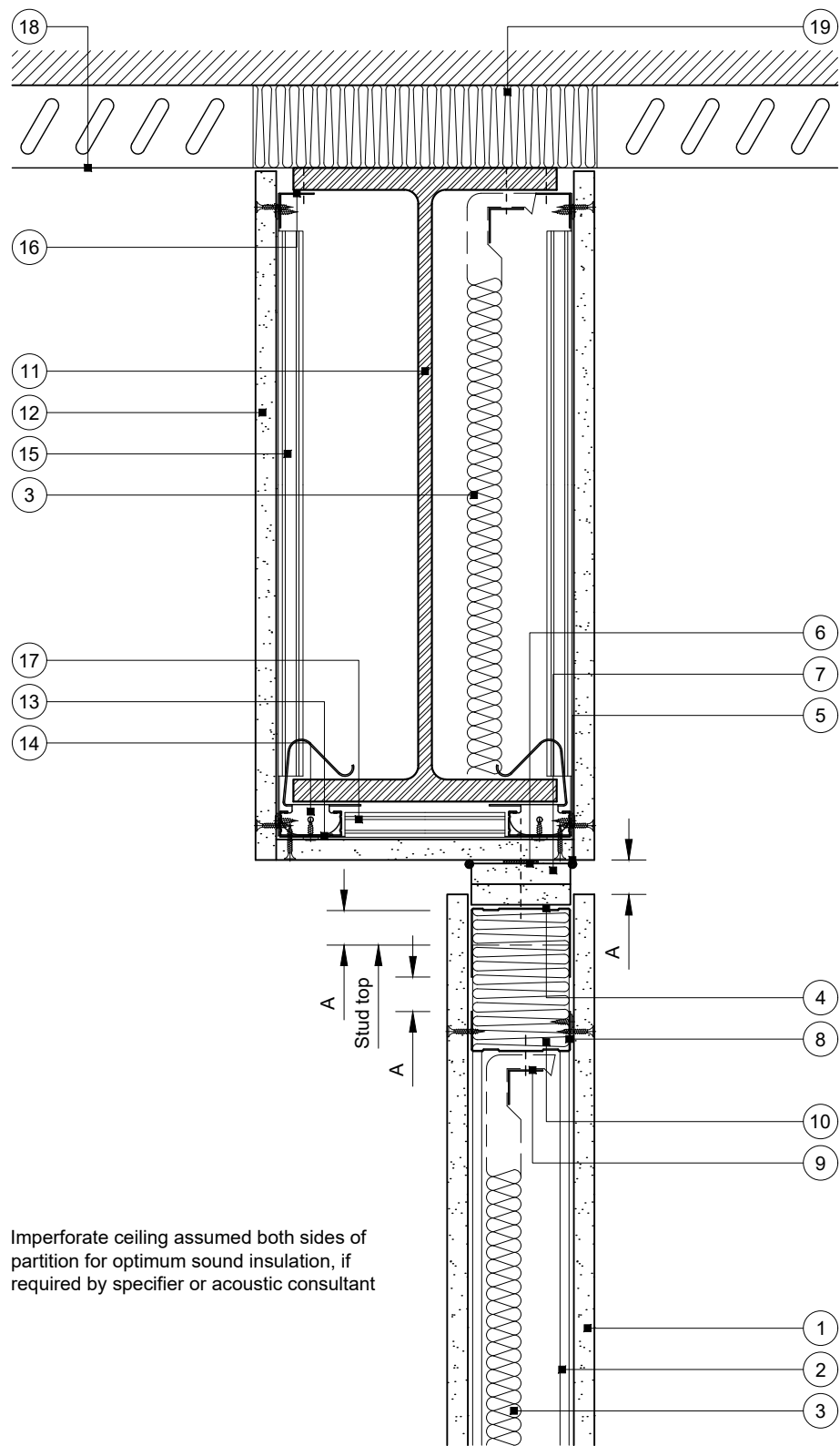


Construction Detail

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



Deflection head to underside of encased beam
Downward (vertical) Movement

GypWall Single Frame, GypWall Single Frame Enhanced and GypLyner Encase

- 1 One layer Gyproc plasterboard or Glasroc specialist board fixed with suitable British Gypsum screws at 300mm centres (200mm centres at external angles)
- 2 Gypframe stud type and centres as specified
- 3 Isover insulation where required
- 4 Gypframe Deep Channel or Extra Deep Channel (see table) fixed through board to noggings with suitable British Gypsum screws at 600mm centres (in two lines staggered by 300mm for 94mm and 148mm channels)
- 5 Gyproc Sealant for optimum sound insulation
- 6 Gyproc FireStrip
- 7 One or two channel width strip(s) of board (see table). Two strips pre-fixed to channel with suitable British Gypsum screws at 600mm centres
- 8 Gypframe Channel noggings with ends notched around studs and fixed with suitable British Gypsum wafer head screws, to receive uppermost board fixings (no fixings into head channel). Alternatively Gypframe stud noggings tightly fitted between studs
- 9 Gypframe steel angle or timber batten suitably fixed to nogging to retain insulation where required
- 10 Stone mineral wool 33kg/m³ minimum density by others
- 11 Indicative universal steel beam
- 12 One layer 15mm Gyproc FireLine fixed with suitable British Gypsum screws at 300mm centres (200mm centres at external angles)
- 13 Gypframe GL1 Lining Channel clipped over steel framing clips. Lining channels extended with Gypframe GL3 Channel Connector (not shown)
- 14 Gypframe GL10 Steel Framing Clips friction fitted to flanges at 800mm centres and 100mm from each end of encasement
- 15 Noggings of Gypframe GL1 Lining Channel with ends tabbed or Gypframe GFT1 Fixing T fixed to lining channels with suitable British Gypsum wafer head screws to support board joints. Board joints staggered by 600mm between adjacent sides. Where beam width exceeds 600mm noggings of Gypframe GL1 Lining Channel required at 600mm centres
- 16 Gypframe GA2 Steel Angle suitably fixed to steel beam at 600mm centres
- 17 Gypframe GL1 Lining Channel noggings at 600mm centres (300mm centres for 92mm and 146mm studs in adjacent partition) with ends tabbed and fixed to lining channels with suitable British Gypsum wafer head screws
- 18 Profile sheet decking
- 19 Suitable fire stopping material by others (see important information)

DEFLECTION (VERTICAL) HEAD DESIGN		
DEFLECTION DIM. A	DROPPED SOFFIT NOTE 7	CHANNEL NOTE 4
1-15mm	One 19mm ^A or 20mm ^B	DC
16-20mm	Two 15mm ^B	DC
21-25mm	Two 15mm ^B	DC
26-30mm	Two 20mm ^B	DC
31-35mm	Two 20mm ^B	EDC
36-40mm	Two 25mm ^B	EDC
41-45mm	Two 25mm ^B	EDC
46-50mm	Two 30mm ^B	EDC

^A Gyproc CoreBoard
^B Glasroc F FireCase

Important information

- Fire resistance BS EN 1364-1
- 30 or 60 minutes through partition subject to specification
 - 60 minutes evidence based opinion room to room through beam encasement subject to partition specification

- Fire protection BS EN 13381-4
- 60 minutes up to A/V (Hp/A) 183m⁻¹

As there is no recognised method for 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 test data. The drawing should be approved by the project design and management authority before use to ensure that it meets with their specific project requirements

Performance characteristics of the British Gypsum system must be maintained. It is important that a suitable fire stopping product with appropriate fire resistance substantiation is sought from a third party manufacturer

Rev. B 21.03.24 Updated table (MBH)

Title: Construction detail

Scale at A3: 1:5

Date: December 2021

Dwg No.: CN-121-016

Drawn: MRC

Approved: MKF JMC

Revision: B

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