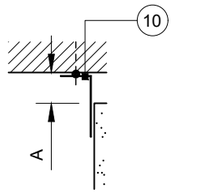
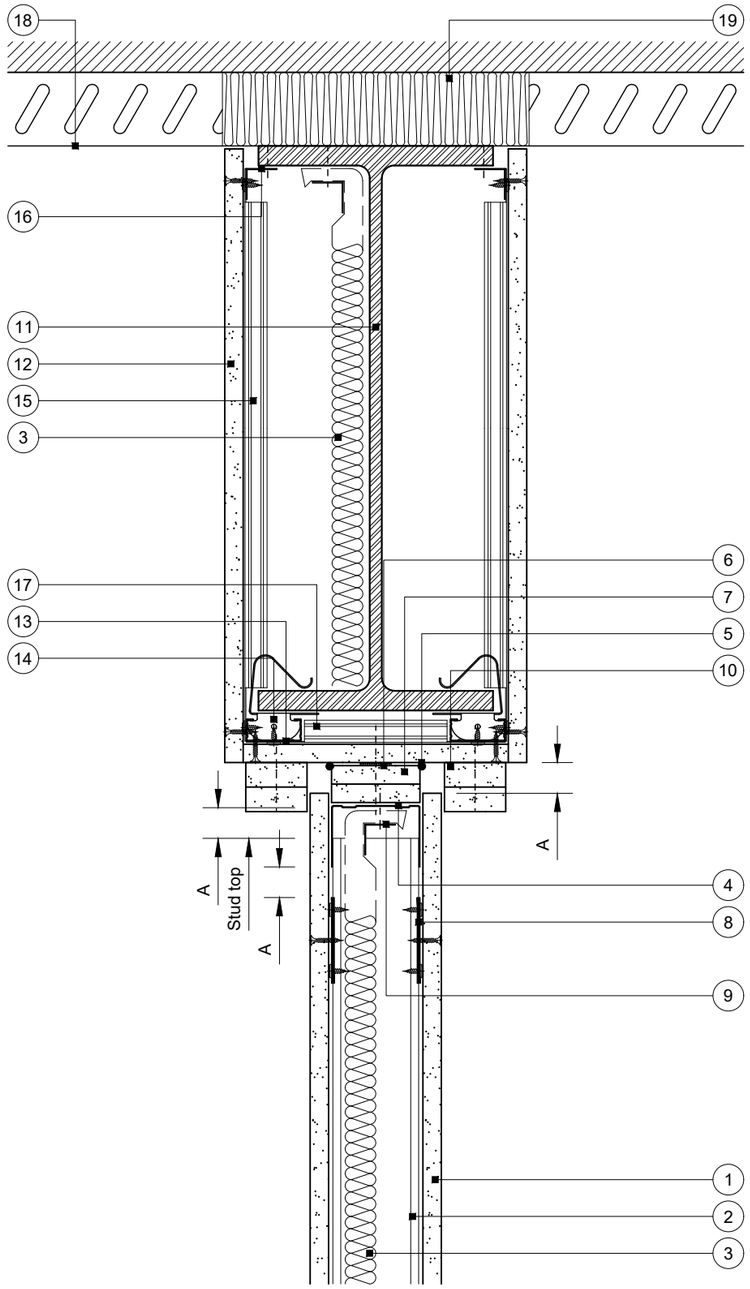
Construction Detail

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



Alternative cloaking detail



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 GFS1 Fixing Strap fixed to each stud with two suitable British Gypsum wafer head screws to receive uppermost board fixings (no fixings into head channel)
9 Gypframe steel angle or timber batten suitably fixed to channel to retain insulation where required
10 Two 50mm width strips of Glasroc F FireCase fixed through board to beam with suitable fire resistant fixings at 600mm centres, or Gypframe GA4 Steel Angle bedded on bead of Gyproc Sealant and fixed through board to beam with suitable fire resistant fixings at 600mm centres (see table)
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	CLOAKING ELEMENT NOTE 10
1-15mm	One 19mm [A] or 20mm [B]	DC	Two 15mm [B] or GA4
16-20mm	Two 15mm [B]	DC	Two 15mm [B] or GA4
21-25mm	Two 15mm [B]	DC	Two 20mm [B] or GA4
26-30mm	Two 20mm [B]	DC	Two 20mm [B]
31-35mm	Two 20mm [B]	EDC	Two 25mm [B]
36-40mm	Two 25mm [B]	EDC	Two 25mm [B]
41-45mm	Two 25mm [B]	EDC	Two 30mm [B]
46-50mm	Two 30mm [B]	EDC	Two 30mm [B]

[A] Gyproc CoreBoard
[B] Glasroc F FireCase

Important information

Fire resistance BS EN 1364-1
- 30 or 60 minutes through partition subject to specification
- Estimated 60 minutes 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

Deflection head to underside of encased beam

Downward (vertical) Movement

Rev. A 03.08.22 Annotation update (AJC)

Title:	Construction detail	**Scale at A3:**	1:5	**Drawn:**	MRC
		Date:	December 2021	**Approved:**	MKF JMC
		Dwg No.:	CN-121-015	**Revision:**	A

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