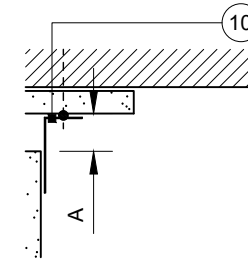


# Construction Detail

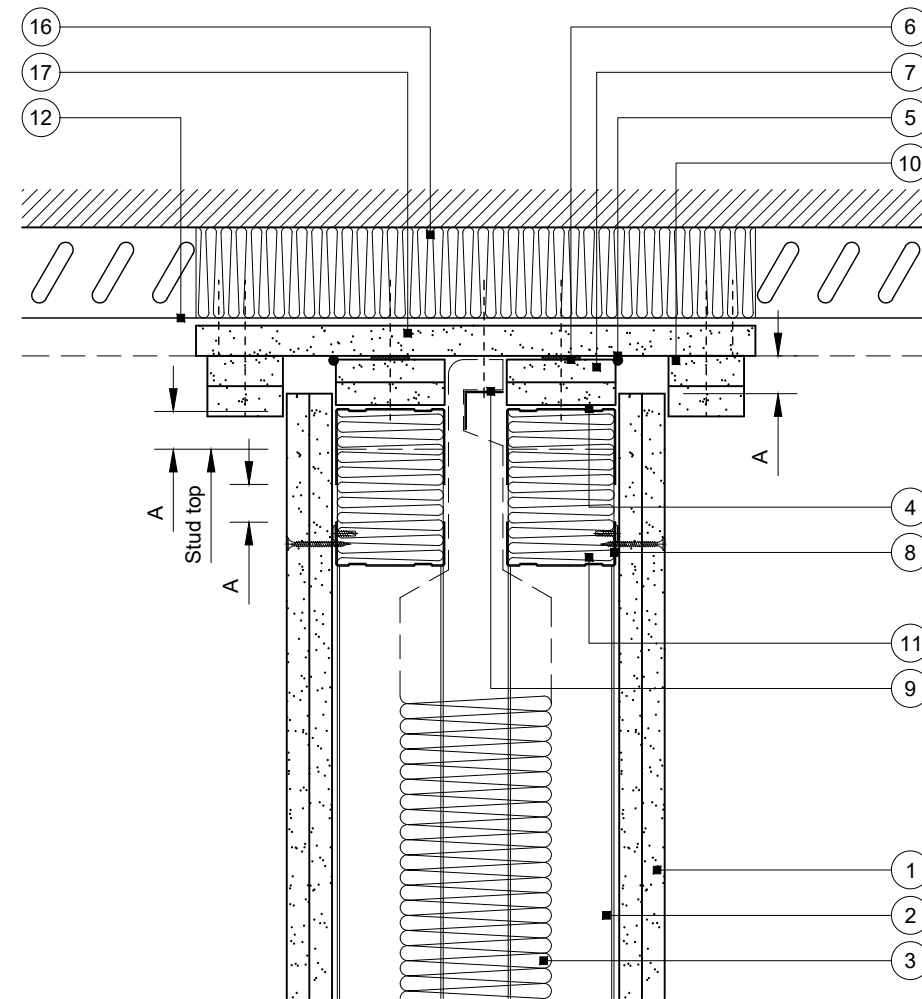
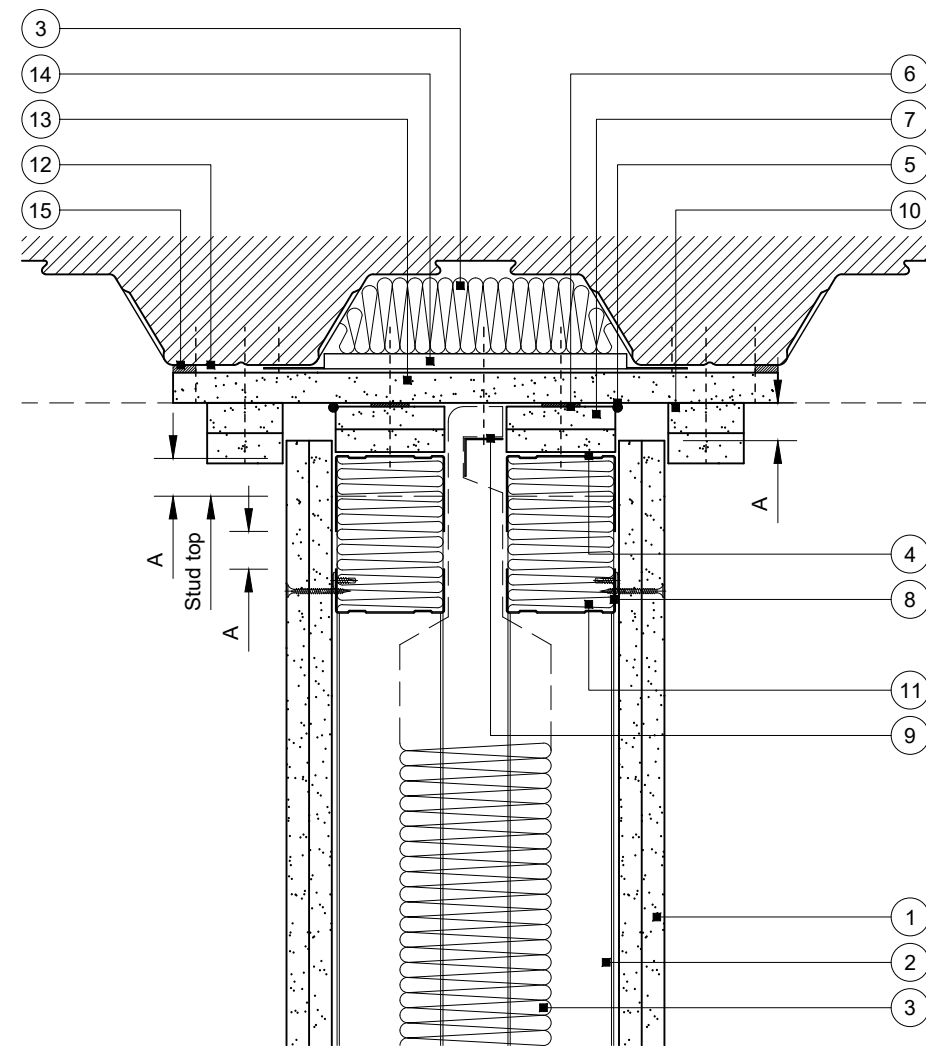
This drawing provides guidance to achieve indicative performance criteria for specific design conditions

## GypWall Twin Frame Independent

- 1 Two layers Gyproc plasterboard or Glasroc specialist board fixed with suitable British Gypsum screws at 300mm centres (200mm centres at external angles)
- 2 Two lines of Gypframe 'I' studs at specified centres
- 3 Isover insulation where required
- 4 Gypframe Deep Channel or Extra Deep Channel (see table) suitably fixed through board to fixing channel or soffit 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)
- 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 fixing channel or soffit with suitable fire resistant fixings at 600mm centres, or Gypframe GA4 Steel Angle bedded on bead of Gyproc Sealant and fixed through board to fixing channel or soffit with suitable fire resistant fixings at 600mm centres (see table)
- 11 Stone mineral wool 33kg/m<sup>3</sup> minimum density by others
- 12 Profile sheet decking
- 13 20mm Glasroc F FireCase suitably fixed to soffit at 150mm centres (min. 50mm overlap on soffit)
- 14 Gypframe 99 FC 50 Fixing Channel at 600mm centres (300mm centres for 94mm and 148mm channels) suitably fixed to soffit (flanges snipped and bent flat to facilitate fixing)
- 15 Fire resistant sealant manufactured and supplied by others
- 16 Suitable fire stopping material by others (see important information)
- 17 Packer of 20mm Glasroc F FireCase suitably fixed to soffit



Alternative cloaking detail



### DEFLECTION (VERTICAL) HEAD DESIGN

DEFLECTION DIM. A	DROPPED SOFFIT NOTE 7	CHANNEL NOTE 4	CLOAKING ELEMENT NOTE 10
1-15mm	One 19mm <sup>A</sup> or 20mm <sup>B</sup>	DC	Two 15mm <sup>B</sup> or GA4
16-20mm	Two 15mm <sup>B</sup>	DC	Two 15mm <sup>B</sup>
21-25mm	Two 15mm <sup>B</sup>	DC	Two 20mm <sup>B</sup>
26-30mm	Two 20mm <sup>B</sup>	DC	Two 20mm <sup>B</sup>
31-35mm	Two 20mm <sup>B</sup>	EDC	Two 25mm <sup>B</sup>
36-40mm	Two 25mm <sup>B</sup>	EDC	Two 25mm <sup>B</sup>
41-45mm	Two 25mm <sup>B</sup>	EDC	Two 30mm <sup>B</sup>
46-50mm	Two 30mm <sup>B</sup>	EDC	Two 30mm <sup>B</sup>

<sup>A</sup> Gyproc CoreBoard  
<sup>B</sup> Glasroc F FireCase

### Important information

- Fire resistance BS EN 1364-1
- 90 or 120 minutes through partition subject to specification
  - Estimated 90 or 120 minutes room to room through junction subject to partition specification

Performance is based on maintaining compartmentation through the British Gypsum partition up to the line of the abutting structural element. This is on the basis the structural element has at least the equivalent fire resistance performance to that of the partition. 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 parallel and perpendicular to trapezoidal profile soffit

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-126-002

Revision: A

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