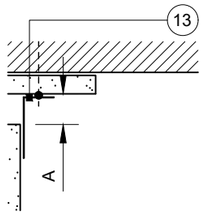
Construction Detail

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

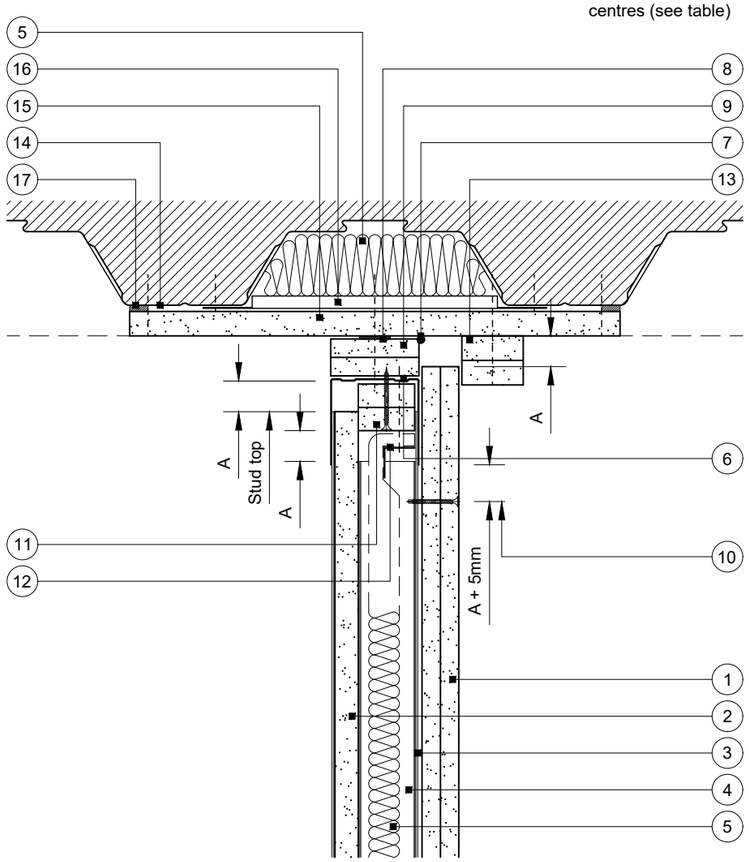
British Gypsum
SAINT-GOBAIN

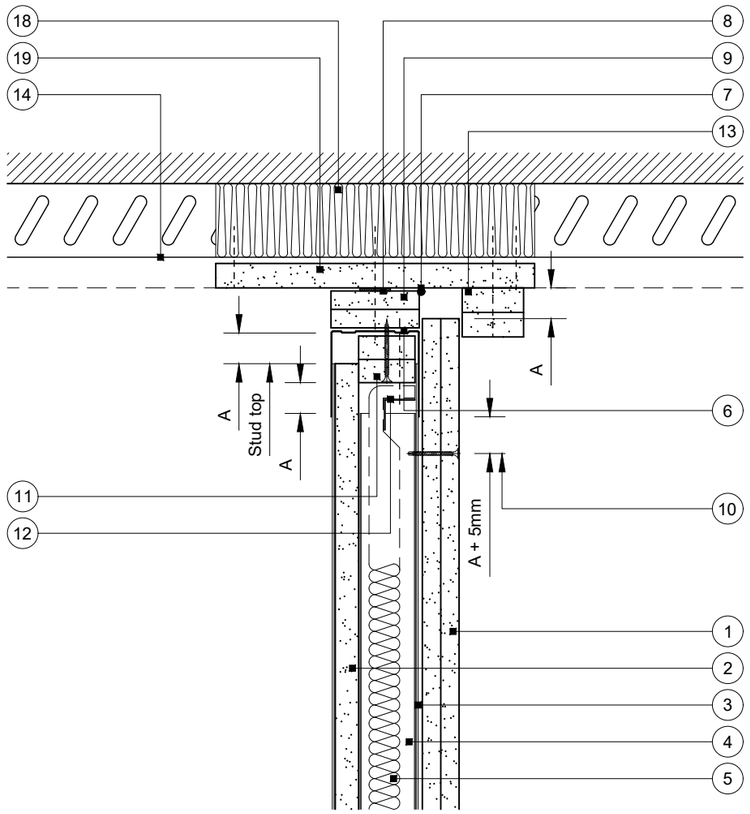
GypWall Shaft

1 Two layers Gyproc plasterboard or Glasroc specialist board fixed with suitable British Gypsum screws at 300mm centres (200mm centres at external angles)
2 19mm Gyproc CoreBoard or 20mm Glasroc F FireCase
3 Gypframe 'I' studs (tabbed 'I' studs for 146mm) at specified centres
4 Gypframe Retaining Channel
5 Isover insulation where required
6 Gypframe Extra Deep Channel ('J' Channel for 62mm) suitably fixed through board to fixing channel or soffit at 300mm centres (at 600mm centres in two lines staggered by 300mm for 94mm and 148mm channels)
7 Gyproc Sealant for optimum sound insulation
8 Gyproc FireStrip
9 One or two channel width strip(s) of board (see table). Two strips pre-fixed to channel from underside with suitable British Gypsum screws at 600mm centres
10 Uppermost board fixing to studs
11 Two or three firestops (see table) 36/46/68/122mm width (to suit 60/70/92/146mm studs) cut from 19mm Gyproc CoreBoard or 20mm Glasroc F FireCase, installed between studs and fixed to channel with two suitable British Gypsum screws
12 Gypframe steel angle or timber batten suitably fixed to channel to retain insulation where required
13 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)
14 Profile sheet decking
15 20mm Glasroc F FireCase suitably fixed to soffit at 150mm centres (min. 50mm overlap on soffit)
16 Gypframe 99 FC 50 Fixing Channel at 300mm centres suitably fixed to soffit (flanges snipped and bent flat to facilitate fixing)
17 Fire resistant sealant manufactured and supplied by others
18 Suitable fire stopping material by others (see important information)
19 Packer of 20mm Glasroc F FireCase suitably fixed to soffit



Alternative cloaking detail





DEFLECTION (VERTICAL) HEAD DESIGN			
DEFLECTION DIM. A	DROPPED SOFFIT NOTE 9	FIRESTOP NOTE 11	CLOAKING ELEMENT NOTE 13
1-15mm	One 19mm [A] or 20mm [B]	Two	Optional GA4 [C]
16-20mm	Two 15mm [B]	Two	Two 15mm [B]
21-25mm	Two 15mm [B]	Two	Two 20mm [B]
26-30mm	Two 20mm [B]	Two	Two 20mm [B]
31-35mm [D]	Two 20mm [B]	Three	Two 25mm [B]
36-40mm [D]	Two 25mm [B]	Three	Two 25mm [B]
41-45mm [D]	Two 25mm [B]	Three	Two 30mm [B]
46-50mm [D]	Two 30mm [B]	Three	Two 30mm [B]

[A] Gyproc CoreBoard
[B] Glasroc F FireCase
[C] For optimum sound insulation
[D] Maximum 30mm for 'J' Channel

Important information

Fire resistance BS EN 1364-1
- 90 minutes through partition subject to specification
- Estimated 90 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. C 21.02.23 Annotation update (MBH)

Title: Construction detail

Scale at A3: 1:5
Date: December 2021
Dwg No.: CN-129-002
Drawn: MRC
Approved: MKF JMC
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