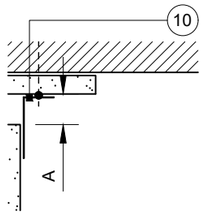
Construction Detail

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

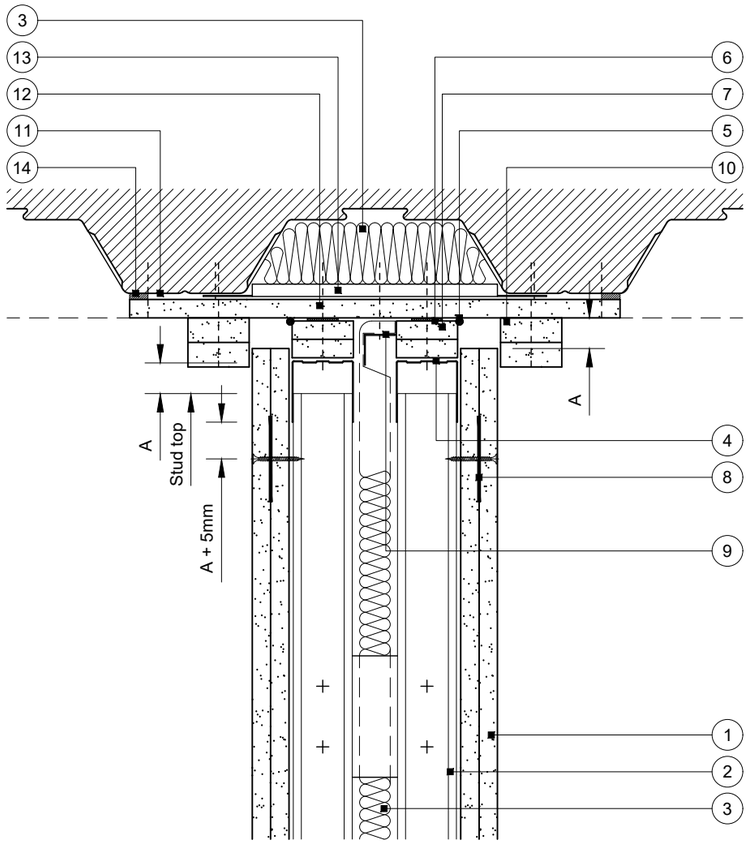
British Gypsum
SAINT-GOBAIN

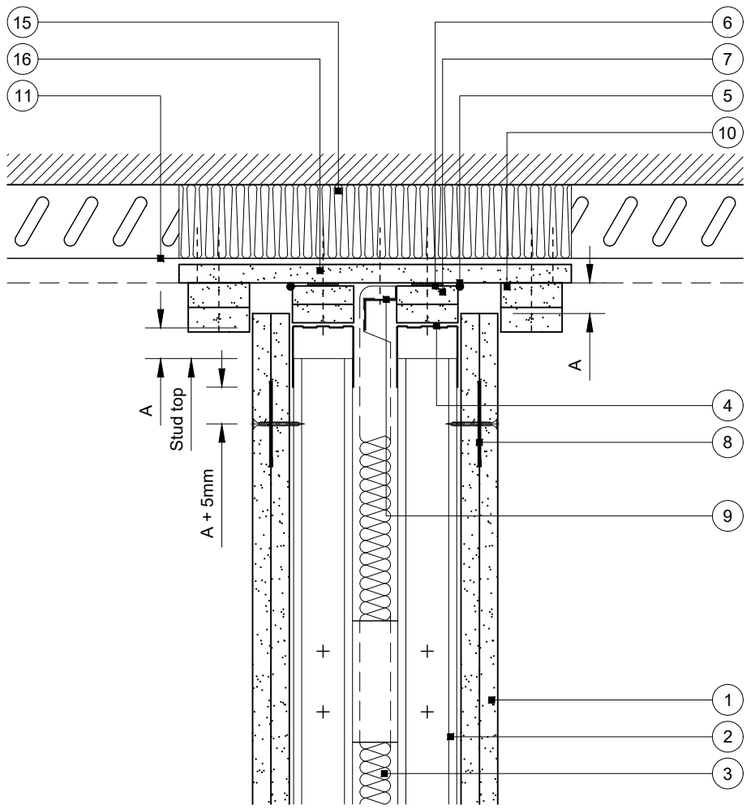
GypWall Twin Frame Braced

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 'C' studs at specified centres cross braced with Gypframe 99 FC 50 Fixing Channel at 1200mm centres (staggered by 600mm between stud pairs for heights over 2400mm) fixed to each stud with two suitable British Gypsum wafer head screws
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
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 through board to studs with suitable British Gypsum screws at 1200mm centres 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 Profile sheet decking
12 15mm Glasroc F FireCase suitably fixed to soffit at 150mm centres (min. 50mm overlap on soffit)
13 Gypframe 99 FC 50 Fixing Channel at 600mm centres suitably fixed to soffit (flanges snipped and bent flat to facilitate fixing)
14 Fire resistant sealant manufactured and supplied by others
15 Suitable fire stopping material by others (see important information)
16 Packer of 15mm 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 [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 30 or 60 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
48mm or 70mm 'C' studs

Rev. A 03.08.22 Annotation update (AJC)

Title: Construction detail

Scale at A3: 1:5
Date: December 2021
Dwg No.: CN-125-001

Drawn: MRC
Approved: MKF JMC
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