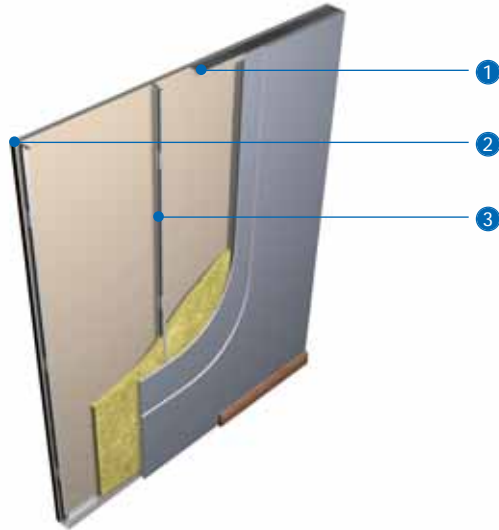


GypWall STAGGERED

Staggered stud acoustic partition system

GypWall **STAGGERED** is a non-loadbearing metal stud partition which provides very high levels of sound insulation. In public and commercial developments it can be used for space division within critical areas of offices, hotels, schools, hospitals, recreational complexes, shops, and conference centres. In refurbishment work on residential units it can be used as a sound resisting, space saving partition between dwellings.







- 1 Gypframe Floor & Ceiling Channel
- 2 Gypframe Spacer Clip
- 3 Gypframe 'I' Stud

Key facts



- Choice of framing sizes to suit range of performance requirements
- Achieves very high levels of sound insulation
- Satisfies *BS 5234* strength and robustness requirements up to Severe Duty
- Up to 90 minutes fire resistance
- Single layer or double layer board linings
- Uses 'I' stud framework to give a robust partition
- De-coupled linings for high acoustic performance, with space saving partition widths

Components

Gyproc board products

		Take-off quantities ¹
	Gyproc SoundBloc² Thickness 12.5, 15mm Width 1200mm	200m ² per layer
	Gyproc DuraLine² Thickness 15mm Width 1200mm	200m ² per layer

Gypframe metal products



	Gypframe 60 I 70 'I' Stud Length 3600, 4200mm Used with 72m Gypframe Standard Floor & Ceiling Channel to form 60/72 combination.	335m
	Gypframe 92 I 90 'I' Stud Length 3600, 5000, 6000mm Used with 148mm Gypframe Standard Floor & Ceiling Channel to form 92/148 combination.	335m






Gypframe metal products

		Take-off quantities ¹
	Gypframe 70 S 50 'C' Studs Length 2400 - 4200mm	as required
	Gypframe 146 S 50 'C' Stud Length 3000, 3600, 4200mm	as required
	Gypframe Standard Floor & Ceiling Channels 60/72 Combination Width 72mm Length 3600mm Code 72 C 50 92/148 Combination Width 148mm Length 3600mm Code 148 C 50	dependent on partition length

¹ Quantities are based on 100m² of partition with a double layer of board each side. Quantities are approximate and for guidance only, no allowance has been made for waste, openings, abutments, etc.




² Moisture resistant boards are specified in intermittent wet use areas e.g. shower cubicles.

Gypframe metal sections	Take-off quantities †
 <p>Gypframe SC1 Spacer Clip (used in 60/72 combination).</p>  <p>Gypframe SC2 Spacer Clip (used in 92/148 combination).</p>	2 per stud
 <p>Gypframe GA5 Internal Fixing Angle Prime dimensions 60 x 60mm Angle 90°</p>	as required
 <p>Gypframe GFS1 Fixing Strap Length 2400mm</p>	as required
 <p>Gypframe 99 FC 50 Fixing Channel Length 2400mm</p>	as required
 <p>Gypframe 150 FC 90 Fixing Channel Length 1194mm</p>	as required
 <p>Gypframe GA6 Splayed Angle For splayed corners.</p>	as required

Gypframe metal sections	Take-off quantities †
 <p>Gypframe GFT1 Fixing 'T' Length 2400mm</p>	as required
Fixing and finishing products	
 <p>Gyproc Drywall Screws For fixing boards to stud framing up to 0.79mm thick.</p>	as required
 <p>Gyproc Jack-Point Screws For fixing boards to stud framing 0.8mm thick or greater and 'T' studs greater than 0.55mm thick.</p>	1 st layer - 1750 2 nd layer - 2250
 <p>Gyproc jointing materials For seamless jointing.</p>	as required
 <p>Gyproc Sealant Sealing airpaths for optimum sound insulation.</p>	1 cartridge per 35m based on 6-10mm bead



Components

Fixing and finishing products

		Take-off quantities ¹
	Gyproc edge beads Protecting and enhancing board edges and corners.	as required
	Gyproc Control Joint To accommodate structural movement.	as required
	Gyproc FireStrip For fire-stopping deflection heads.	as required

¹ Quantities are based on 100m² of partition with a double layer of board each side. Quantities are approximate and for guidance only, no allowance has been made for waste, openings, abutments, etc.

Fixing and finishing products

		Take-off quantities ¹
	Thistle Board Finish or Thistle Multi-Finish To provide a plaster skim finish.	10m ² per 25kg bag
	Isover APR 1200 For enhanced acoustic performance. 25mm, 50mm.	100m ²

Construction tips

- The following points should be considered in addition to the construction tips for **GypWall classic**
- Estimated construction time 2m² – 2.5m² / man hour (single layer partition) or 1.5m² - 2m² / man hour (double layer partition) ready for finishing
- To maintain the high levels of sound insulation it is essential that services, fixtures, etc, do not bridge the two sets of stud linings
- Use special detailing at deflection heads (see **Junction details – deflection**) to maintain acoustic performance
- Openings require careful detailing to minimise loss of acoustic performance
- Specialist heavy acoustic doorsets may require additional support

Installation



1

- Determine and mark the wall position and make allowance for openings.
- Fix Gypframe Floor & Ceiling Channel along centre line of floor and ceiling at 600mm centres with suitable fixings.
- On uneven floors a timber sole plate, 38mm x width of channel, may be required.
- On new concrete or screeding, consider installing a damp proof membrane.

NB 148mm channels require two rows of staggered fixings (600mm centres in each row).



2

- Fix Gypframe 'C' Studs to the abutting wall at 600mm centres.

NB 146mm studs require two rows of staggered fixings (600mm centres in each row).



3

- Cut Gypframe 'I' Studs 6mm short of the floor to ceiling height using a chop saw / circular saw.
 - Insert a Gypframe Spacer Clip top and bottom of the Gypframe 'I' Stud.
- NB** Use Gypframe SC1 Spacer Clips for engaging Gypframe 60 I 70 'I' Studs and Gypframe SC2 Spacer Clips for engaging Gypframe 92 I 90 'I' Studs.



- Use the clip as the pivot point when turning the stud to minimise sliding.



- Fit Gypframe 'I' Studs vertically within the Gypframe Floor & Ceiling Channel at 300mm centres (Gypframe 'C' Studs to abutments – see **Junction detail 11**). Alternate clips on either side of the Gypframe 'I' Stud to give the staggered stud framework.
- Fit the specified thickness of Isover APR 1200 insulation in the cavity.



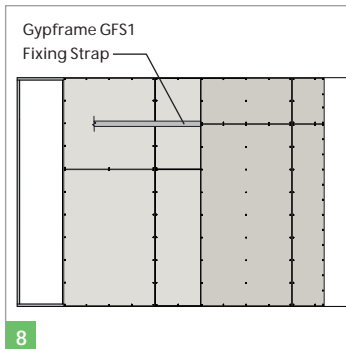
- Apply Gyproc Sealant as a continuous bead to the perimeter of the framing on both sides before boarding commences, to ensure acoustic performance.



7

Board fixing

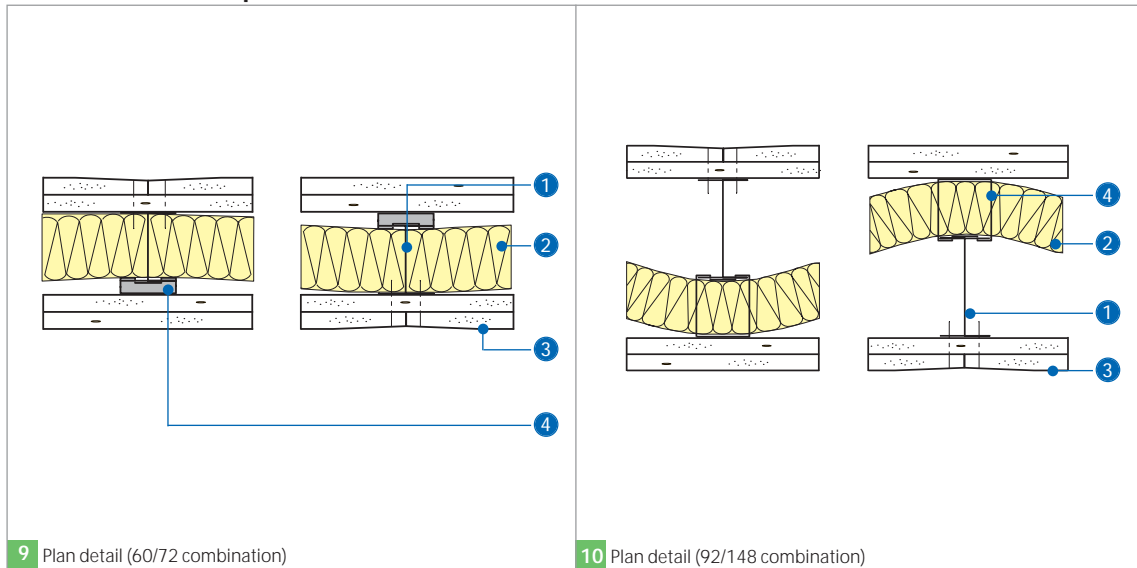
- Screw-fix boards to alternate studs (which are in contact with board) at 300mm centres using Gyproc Jack-Point Screws. Reduce centres to 200mm at external angles.
- Under-layer boards do not require centre fixings. Cut and fix the initial second layer board as appropriate, so that subsequent board joints are staggered.



8

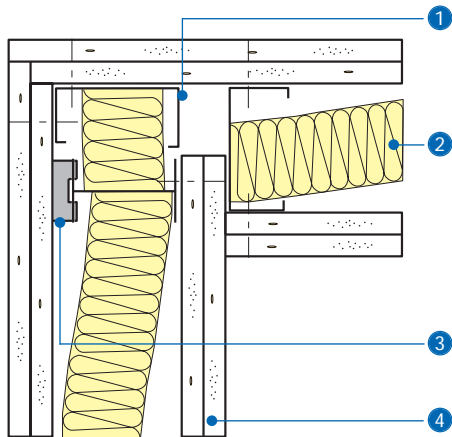
- Gypframe GFS1 Fixing Strap located to support horizontal joints of outer layer boards.

Installation details - plan

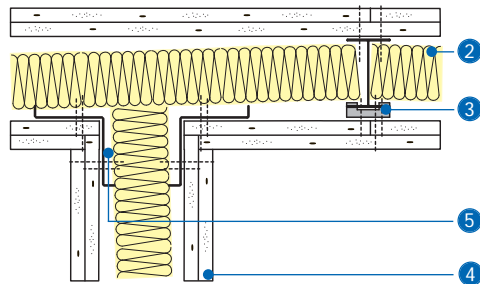


- 1 Gypframe 'I' Stud
- 2 Isover Insulation
- 3 Gyproc SoundBloc or Gyproc DuraLine
- 4 Gypframe Spacer Clip

Junction details - returns



11 Corner junction

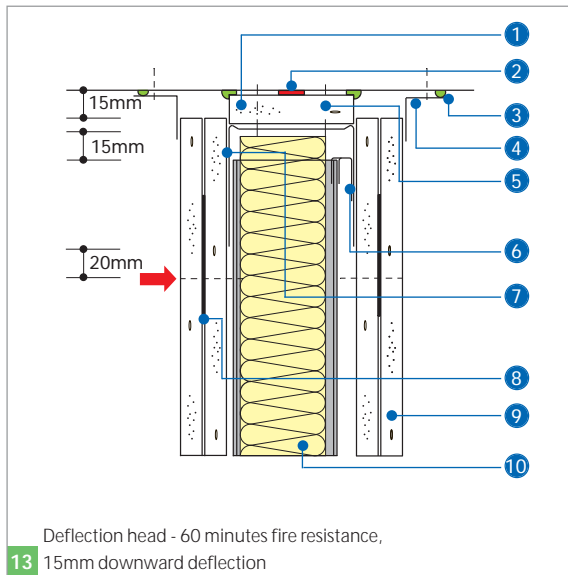


12 'T' junction

- 1 Gypframe 'C' Stud
- 2 Isover insulation
- 3 Gypframe Spacer Clip

- 4 Gyproc SoundBloc or Gyproc DuraLine
- 5 Gypframe GA5 Internal Fixing Angle

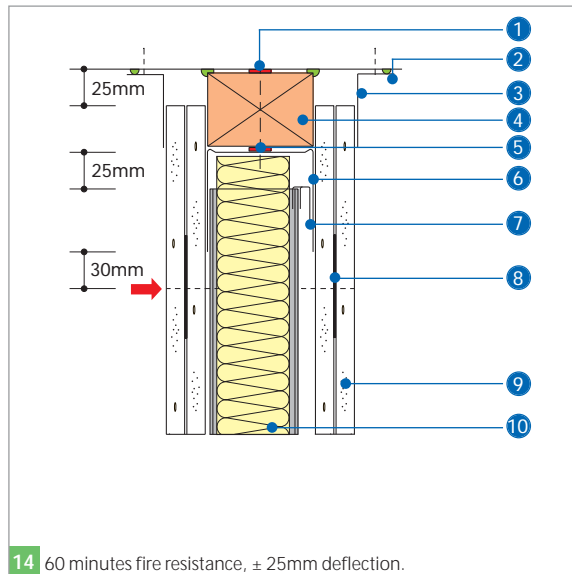
Junction details - deflection



NB No fixings should be made through the boards into the flanges of the head channel. The arrow (➔) denotes the position of the uppermost board fixings which should be made into Gyproframe GFS1 Fixing Strap or studs. Continuous Gyproc FireStrip must be installed as shown in order to maintain fire performance. Gyproframe Steel Angle or approved decorative trim (by others) should be fixed to the soffit either side of the partition as shown in order to maintain the acoustic performance. Where \pm deflection is a requirement, Gyproframe SC1 or SC2 Spacer Clips must be pre-fixed to the 'I' studs to avoid the risk of disengagement once deflection is taken up.

- | | | |
|--------------------------------------|---|---------------------------------------|
| 1 Gyproc Plank | 5 Fixing through firestop into structure at 600mm maximum centres | 8 Gyproframe GFS1 Fixing Strap |
| 2 Gyproc FireStrip (continuous line) | 6 Gyproframe Spacer Clip | 9 Gyproc SoundBloc or Gyproc DuraLine |
| 3 Gyproc Sealant | 7 Gyproframe 72 EDC 80 Extra Deep Flange Floor & Ceiling Channel | 10 Isover insulation |
| 4 Gyproframe Steel Angle trim | | |

Junction details - deflection (cont'd)



NB No fixings should be made through the boards into the flanges of the head channel. The arrow (➔) denotes the position of the uppermost board fixings which should be made into Gypframe GFS1 Fixing Strap or studs. Continuous Gyproc FireStrip must be installed as shown in order to maintain fire performance. Gypframe Steel Angle or approved decorative trim (by others) should be fixed to the soffit either side of the partition as shown in order to maintain the acoustic performance. Where \pm deflection is a requirement, Gypframe SC1 or SC2 Spacer Clips must be pre-fixed to the 'I' studs to avoid the risk of disengagement once deflection is taken up.

- ➊ Gyproc FireStrip (continuous line on top and bottom of timber)
- ➋ Gyproc Sealant
- ➌ Gypframe Steel Angle trim
- ➍ Timber head plate suitably fixed to structure

- ➎ Fixing of head channel into timber head plate at 600mm maximum centres
- ➏ Gypframe 72 EDC 80 Extra Deep Flange Floor & Ceiling Channel

- ➐ Gyproc SoundBloc or Gyproc DuraLine
- ➑ Gyproc Sealant
- ➒ Gyproc FireStrip
- ➓ Gyproc Sealant
- ➔ Gyproc FireStrip
- ➕ Gyproc Sealant
- ➖ Gyproc FireStrip
- ➗ Gyproc Sealant
- ➘ Gyproc FireStrip
- ➙ Gyproc Sealant
- ➚ Gyproc FireStrip
- ➛ Gyproc Sealant
- ➜ Gyproc FireStrip
- ➝ Gyproc Sealant
- ➞ Gyproc FireStrip
- ➟ Gyproc Sealant
- ➠ Gyproc FireStrip
- ➡ Gyproc Sealant
- Gyproc FireStrip
- ➣ Gyproc Sealant
- Gyproc FireStrip
- ➥ Gyproc Sealant
- ➦ Gyproc FireStrip
- ➧ Gyproc Sealant
- ➨ Gyproc FireStrip
- ➩ Gyproc Sealant
- ➪ Gyproc FireStrip
- ➬ Gyproc Sealant
- ➮ Gyproc FireStrip
- ➰ Gyproc Sealant
- ➲ Gyproc FireStrip
- ➴ Gyproc Sealant
- ➶ Gyproc FireStrip
- ➸ Gyproc Sealant
- ➺ Gyproc FireStrip
- ➼ Gyproc Sealant
- ➾ Gyproc FireStrip
- ➿ Gyproc Sealant

