

High performance fire-resistant wall system

FireWall is a non-loadbearing wall which provides up to 240 minutes fire resistance. It is used in certain ground floor basement situations in shops and industrial storage areas to provide sub-division, and other specific conditions of use as determined by insurance companies.







1 Gypframe 'C' Stud or Gypframe 'I' Stud

Key facts


- Able to satisfy insurance company requirements for enhanced fire performance
- Durable, robust linings
- Satisfies Severe Duty partition rating
- Minimal wall thickness

Components

Gyproc and Glasroc board products

			Take-off quantities ¹
	Gyproc FireLine		200m ² per layer
	Thickness	15mm	
	Glasroc FireCase s		200m ² per layer
	Thickness	15, 25mm	
	Glasroc MultiBoard		200m ² per layer
	Thickness	6mm	
	Width	1200mm	






Gypframe metal products




	Gypframe 146 S 50 'C' Stud		167m
	Length	2400 - 4200mm	











Gypframe metal products

			Take-off quantities ¹
	Gypframe 92 S 10 'C' Stud		167m
	Length	3600, 4200mm	
	Gypframe 92 I 90 'I' Stud		167m
	Length	3600, 5000mm 6000mm	
	Gypframe Standard Floor & Ceiling Channel		Dependant on partition length
		148 C 50	
Gypframe Extra Deep Flange Floor & Ceiling Channel			
	94 EDC 70		
	All channels are available in 3600mm only.		

¹ Quantities are for 100m² of straight partition boarded 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.

Gypframe metal products		Take-off quantities ¹
	Gypframe 99 FC 50 Fixing Channel Length 2400mm	as required
	Gypframe 150 FC 90 Fixing Channel Length 1194mm	as required
	Gypframe GFS1 Fixing Strap Length 2400mm	as required
	Gypframe GFT1 Fixing 'T' Length 2400mm	as required
	Gypframe GA2 Steel Angle Used at deflection head. Length 3200mm	as required

Fixing and finishing products		Take-off quantities ¹
	Gyproc Drywall Screws For fixing boards to stud framing up to 0.79mm thick.	1 st layer - 2250 2 nd layer - 2250
	Gyproc Jack-Point Screws For fixing boards to stud framing 0.8mm thick or greater and 'I' studs greater than 0.55mm thick.	1 st layer - 2250 2 nd layer - 2250
	Gyproc Wafer Head Jack-Point Screws For metal-to-metal fixing 0.8mm thick or greater and 'I' studs greater than 0.55 thick.	as required

Fixing and finishing products	Take-off quantities ¹	Fixing and finishing products	Take-off quantities ¹
 Glasroc FireCase Screws (40mm) Fixing 6mm Glasroc MultiBoard to Glasroc FireCase s.	3 rd layer - 2250 if specified	 Gyproc FireStrip For sealing deflection heads.	If required
 Gyproc Sealant For sealing airpaths for optimum sound insulation.	1 cartridge per 35m based on a 6-10mm bead	 Thistle Multi-Finish or Thistle Board Finish To provide a plaster skim finish.	10m ² per 25kg bag
 Gyproc jointing materials For a seamless finish.	as required	 or Thistle Durafinish To provide improved resistance to accidental damage.	10m ² per 25kg bag
 Gyproc Control Joint For accommodating structural movement.	as required	 or Thistle Spray Finish Gypsum finish plaster for spray or hand application.	11m ² per 25kg bag
¹ Quantities are for 100m ² of straight partition boarded 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.		 Isover APR 1200 For enhanced acoustic performance.	100m ² where specified
		 Stone mineral wool (100kg/m³) 40mm and 50mm thick batts (by others).	100m ² where specified

Construction tips

- Estimated construction time 1.5m² - 2m² / man hour (double layer partition) or 1m² - 1.5m² / man hour (triple layer partition) ready for finishing
- Deflection heads can be accommodated subject to special detailing

Installation



Install FireWall as per GypWall CLASSIC with the following exceptions:

- Fix floor and ceiling channels, and studs to abutments, using suitable fixings. For 94mm and 146mm channels insert two rows of staggered fixings at 600mm centres in each row, with the first fixings 50mm in from the channel end.
- Install Isover insulation or stone mineral wool (as required) progressively as boarding proceeds. To achieve 90mm total thickness of rock mineral wool (where specified), fit two batts of 40mm and 50mm thickness respectively.

Board fixing - Double layer

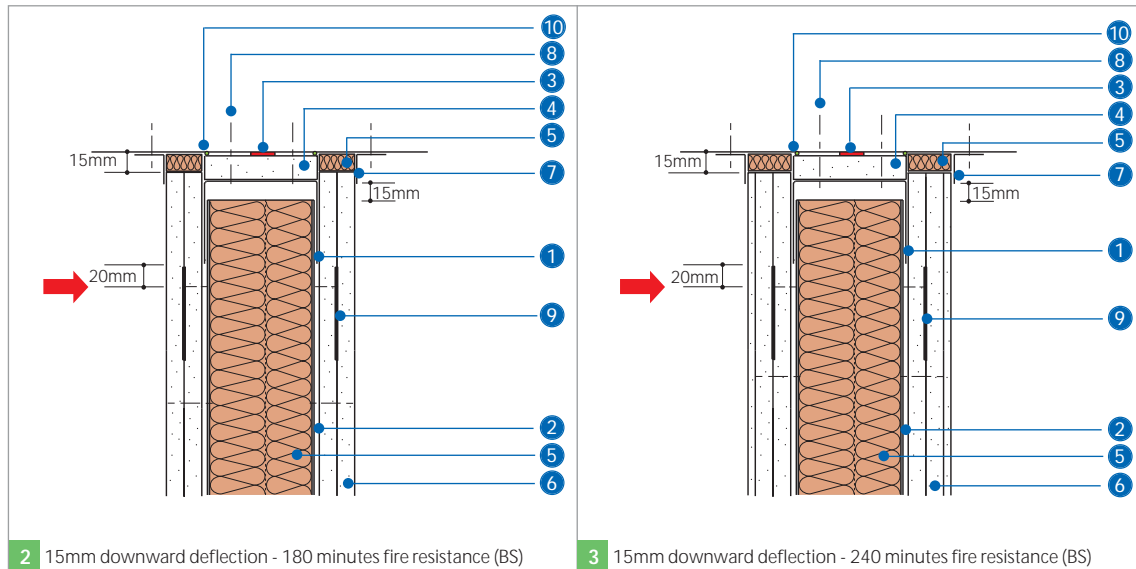
- Fix the first layer to studs and floor channel using Gyproc Screws at 300mm centres.
- Fix the second layer boards using Gyproc Screws at 300mm centres to studs and floor channel.
- Fix second layer board ends to horizontal Gypframe GFS1 Fixing Strap (inserted between board layers). Locate fixings at 300mm centres.

Board fixing - Triple layer

- Fix first and second layer as previous. Fix third layer 6mm Glasroc MultiBoard to the Glasroc FireCase s lining on both faces of the partition using 40mm Glasroc FireCase Screws.
- Insert screws to all edges and down the centres of the boards at 300mm centres. Stagger board joints to ensure that face layer Glasroc MultiBoard joints do not coincide with joints in the Glasroc FireCase s boards.

NB Both deflection head details incorporate a dropped soffit firestop comprising 20mm Glasroc FireCase s the same width as the channel with Gyproc FireStrip applied centrally before fixing. Stone mineral wool strips (100kg/m³) either side retained using Gypframe GA2 Steel Angle.

Junction details



- ① Gyprose Extra Deep Flange Floor & Ceiling Channel
- ② Gyprose 'I' Stud
- ③ Gyprose FireStrip (continuous line)
- ④ 20mm FireCase forming fire-stop (cut on site)
- ⑤ Stone mineral wool (100kg/m³ - by others)

- ⑥ Glasroc / Gyprose board linings
- ⑦ Gyprose GA2 Steel Angle
- ⑧ Staggered rows of fixings through fire-stop
- ⑨ Gyprose GFS1 Fixing Strap
- ⑩ Gyprose Sealant

The arrow (➔) denotes uppermost board fixing (no fixings into head channel).