FireWall

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, Gypframe 'I' Stud or Gypframe Post
2 Gypframe Floor & Ceiling Channel

Key facts

- Able to satisfy insurance company requirements for enhanced fire performance
- Can achieve up to 240 minutes fire resistance
- Durable, robust linings
- Satisfies *BS5234* strength and robustness requirements to Severe Duty
- Minimal wall thickness

Components

Gyproc and Glasroc board products

Gyproc FireLine

Thickness	15mm
Width	1200mm

Glasroc FireCase s

Thickness	15, 25mm
Width	1200mm

Glasroc MultiBoard

Thickness	6mm
Width	1200mm

Gypframe metal products

70 S 50 'C' Studs

Gypframe metal products

Gypframe 146 S 50 'C' Stud

Gypframe 92 S 10 'C' Stud

Gypframe 92 I 90 'I' Stud

Gypframe 70 S 15 Post

Gypframe metal products

Gypframe Standard Floor & Ceiling Channel
74 C 12
148 C 50
Gypframe Extra Deep Flange Floor & Ceiling Channel
94 EDC 90

Gypframe 99 FC 50 Fixing Channel

Gypframe GFS1 Fixing Strap

Gypframe GFT1 Fixing 'T'

Gypframe metal products

Gypframe GA2 Steel Angle
Used at deflection head.

Fixing and finishing products

Gyproc Drywall Screws
For fixing boards to stud framing up to 0.79mm thick.

Gyproc Jack-Point Screws
For fixing boards to stud framing 0.8mm thick or greater and 'I' studs greater than 0.55mm thick.

Gyproc Wafer Head Jack-Point Screws
For metal-to-metal fixing 0.8mm thick or greater and 'I' studs greater than 0.55 thick.

Fixing and finishing products

Glasroc FireCase Screws (40mm)
Fixing 6mm Glasroc MultiBoard to Glasroc FireCase s.

Gyproc Sealant
For sealing airpaths for optimum sound insulation.

Gyproc jointing materials
For a seamless finish.

Gyproc Control Joint
For accommodating structural movement.

Fixing and finishing products

Gyproc FireStrip
For sealing deflection heads.

Gyproc Skimcoat, Gyproc Carlite Finish or Gyproc Board Finish
Providing a plaster finish.

Moy Acoustic Roll
For enhanced acoustic performance.

Stone mineral wool (100kg/m³)
40mm and 50mm thick batts (by others).

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

1

Install **FireWall** as per **GypWall™** 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

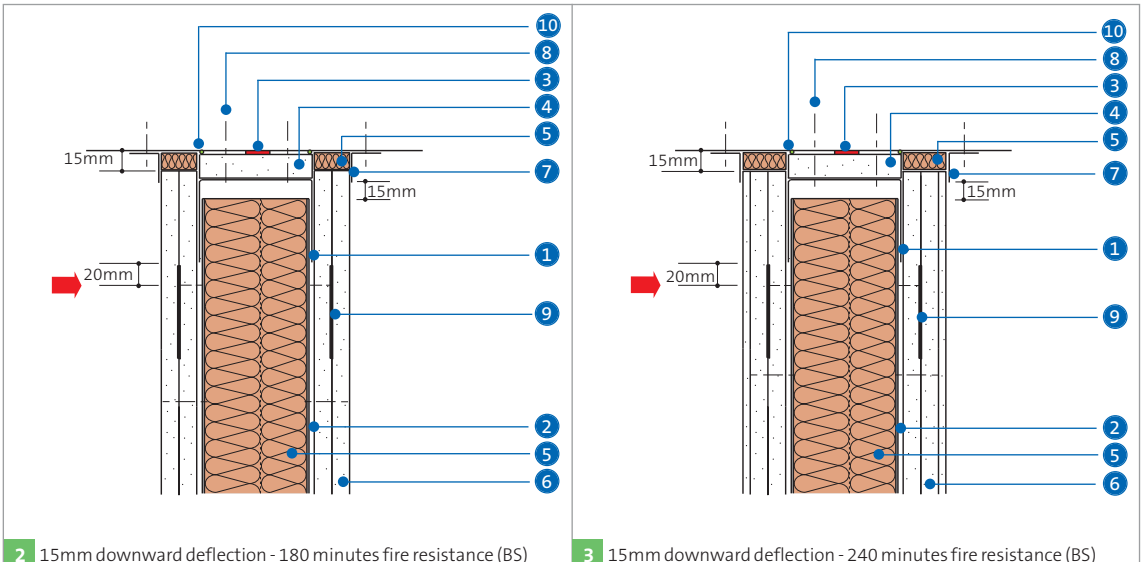
- Fix the first layer to studs and floor channel using Gyproc Screws at 300mm centres.
- Fix the second layer boards using Gyproc Screws at 300mm centres to studs and floor channel.
- Fix second layer board ends to horizontal Gypframe GFS1 Fixing Strap (inserted between board layers). Locate fixings 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/m^3) either side retained using Gypframe GA2 Steel Angle.

Junction details



2 15mm downward deflection - 180 minutes fire resistance (BS)

3 15mm downward deflection - 240 minutes fire resistance (BS)

1. **Gypframe Extra Deep Flange Floor & Ceiling Channel**
2. **Gypframe 'I' Stud**
3. **Gyproc FireStrip (continuous line)**
4. **20mm FireCase s forming fire stop (cut on site)**
5. **Stone mineral wool (100kg/m³ - by others)**
6. **Glasroc / Gyproc board linings**
7. **Gypframe GA2 Steel Angle**
8. **Staggered rows of fixings through fire-stop**
9. **Gypframe GFS1 Fixing Strap**
10. **Gyproc Sealant**

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

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