

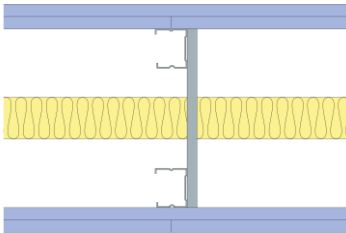
Technical Specification

This document provides guidance on how to achieve performance and warranty requirements by exclusively using British Gypsum products or system specifications.

GypWall Twin Frame Braced

A216009 (B) (EN)

Two layers of Gyproc SoundBloc 15mm fixed to outside faces of two Gypframe 48 S 50 'C' Stud frameworks with studs at 600mm centres, cross braced using Gypframe 99 FC 50 Fixing Channel at 1200mm centres. 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity. For heights up to 6200mm.



Head design

Head channel	Gypframe 50 DC 60 Deep Flange Floor & Ceiling Channel
Two rows of Gypframe channel suitably fixed to soffit at 600mm centres.	
Deflection allowance	Vertical deflection only. To be determined by a Structural Engineer.
Dropped soffit	For principles of deflection head construction refer to detail ST-125-Z1L2-08.

Framework

Stud	Gypframe 48 S 50 'C' Stud
Stud centres - Max (mm)	600

Two rows of Gypframe studs arranged in pairs.

Abutments and openings	Gypframe 48 S 50 'C' Stud
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Two rows of Gypframe 'C' stud suitably fixed to structure at 600mm centres.

Bracing	Gypframe 99 FC 50 Fixing Channel	Bracing Centres - Max (mm)	1200
Bracing fixing	British Gypsum Wafer Head Drywall Screws 13mm		

For partition heights up to 2400mm use one brace at mid-height for each stud pair. For partition heights greater than 2400mm staggered bracing by 600mm centres between stud pairs. Bracing fixed with two wafer head screws per stud.

Base channel	Gypframe 50 DC 60 Deep Flange Floor & Ceiling Channel
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Two rows of Gypframe channel suitably fixed to floor at 600mm centres.

Insulation

Insulation, Layer 1	50mm Isover Acoustic Partition Roll (APR 1200)
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Board and fixings

Board side 1, Layer 1	Gyproc SoundBloc 15mm	Screws side 1, Layer 1	British Gypsum Drywall Screws 25mm
Board side 1, Layer 2	Gyproc SoundBloc 15mm	Screws side 1, Layer 2	British Gypsum Drywall Screws 40mm
Board side 2, Layer 1	Gyproc SoundBloc 15mm	Screws side 2, Layer 1	British Gypsum Drywall Screws 25mm
Board side 2, Layer 2	Gyproc SoundBloc 15mm	Screws side 2, Layer 2	British Gypsum Drywall Screws 40mm

Board layer 1 (Inner), fix securely to Gypframe metal supports around the perimeter of the board at maximum 300mm centres; Board layer 2 (outer), fix securely to all Gypframe metal supports around the perimeter of the board and intermediate stud positions at maximum 300mm centres. External corners reduce fixings to 200mm. All joints staggered between layers. Fix working from the centre of each board. Position screws not less than 13mm from cut edges and 10mm from bound edges of boards. Set screw heads flush with plasterboard surface; do not break paper or gypsum core.

Fixing strap	Gypframe GFS1 Fixing Strap
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Used to support horizontal board joints in face layer of multiple layer board linings and enable board screw fixing at 300mm centres.

Sealant	Gyproc Sealant
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Locate sealant at junctions with adjoining structure and other air paths. Apply as a continuous bead to clean, dry, dust-free surfaces, leaving no gaps. After application of sealant, bulk fill gaps between floor and underside of plasterboard using Gyproc joint compound.

Finish coat

To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.

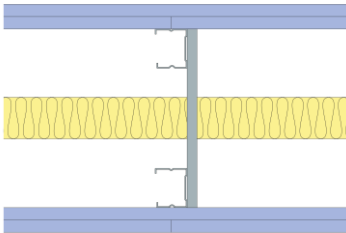
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System performance

Please read performance data with any associated standards.

Fire integrity (mins)	60
Maximum height (mm)	6200

The maximum heights quoted are limited by the fire state field of application or by limiting deflection of L/240 at 200 Pa, whichever is the lower of the two.

Sound insulation (Airborne) Rw (dB)	62
Duty rating	Severe
Partition thickness (mm)	200
Approx. weight (kg/m2)	55

Fire insulation (mins)	60
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Sound insulation (Airborne) Rw + Ctr (dB)	56
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Standards

These standards relate to the above performance data.

BS EN 1364-1, Fire resistance tests for non-loadbearing elements - Walls.

BS 5234-2, Specification for performance requirements for strength and robustness including methods of test.

BS EN ISO 140-3, Acoustics - Measurement of sound insulation in buildings and of building elements. Laboratory measurement of airborne sound insulation of building elements.

Test reports

These test reports relate to the above performance data.

Fire Height Test Report	BTC 16365FA
Fire Resistance Test Report	BTC 16365FA
Partition Duty Test Report	BTC 20236S
Sound Insulation Test Report	BTC 15278A

Further information

SpecSure® system performance warranty confirms that British Gypsum proprietary systems will perform as specified for the lifetime of the building. The **SpecSure®** warranty requires that all components are specified in full and constructed in accordance with British Gypsum's installation guidance. For more details see the British Gypsum website. Always check with the design team before making any changes to the chosen specification, ensuring appropriate substantiation is sought to confirm that the solution still meets all required project performances.