

Technical Specification

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

GypCeiling Shaft

C106056 (EN)

Horizontal upper framework comprising of Gypframe 146 TI 90 Tabbed 'I' Studs at 600mm centres with Gyproc CoreBoard 19mm between studs, secured by Gypframe G102 Retaining Channel. Two layers of Gyproc FireLine 15mm to ceiling side. Lower framework comprising of Gypframe 146 TI 90 Tabbed 'I' Studs at 600mm centres with Gyproc CoreBoard 19mm between studs, secured by Gypframe G102 Retaining Channel. Gypframe MF5 Ceiling Sections fixed perpendicular to Gypframe 'I' Studs on ceiling side at 450mm centres. Two layers of Gyproc FireLine 15mm to ceiling side.



Upper construction

Framework

Upper framework stud	Gypframe 146 TI 90 Tabbed 'I' Stud	Upper framework stud centres - Max (mm)	600
Framework fixing	British Gypsum Wafer Head Jack-Point Screws 13mm		

Gypframe 'I' studs fixed in to Gypframe channel through bottom flange with two wafer head screws.

Abutment channel	Gypframe 146 TSC 90 Tabbed Starter Channel Gypframe 148 EDC 80 Extra Deep Flange Floor & Ceiling Channel		
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Channels suitably fixed to abutment at 600mm centres in two lines staggered by 300mm.

Core

Upper framework core	Gyproc CoreBoard 19mm		
Horizontal joint	Gyproc CoreBoard 19mm Gypframe GA3 Steel Angle		

Horizontal board joints in core layer closed off by inserting steel angle between board joints and 122mm strip of core board fire stop with beads of sealant along both longer edges fixed to angle using three drywall screws.

Retaining channel	Gypframe G102 Retaining Channel		
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Retaining channels inserted between the face of the coreboard and the lower flange of the stud / starter channel.

Board and fixings

Upper framework ceiling board, Layer 1	Gyproc FireLine 15mm	Upper framework ceiling screws, Layer 1	British Gypsum Jack-Point Screws 25mm
Upper framework ceiling board, Layer 2	Gyproc FireLine 15mm	Upper framework ceiling screws, Layer 2	British Gypsum Jack-Point Screws 41mm

Fix all ceiling boards securely to all supports at 230mm maximum centres in the field of the board and at 150mm maximum centres along the short board ends and at ceiling perimeters. 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.

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. For pressurised airshafts and service ducts apply a continuous bead of sealant leaving no gaps to all framing members at perimeter junctions with walls, air gaps around openings, and other potential air leakage points. To frame members prior to fitting core boards and around fire stops cloaking horizontal core board joints. To all metal framing around board perimeters of first layer boarding and board perimeters when fixing outer layer board.

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Lower construction

Framework

Lower framework stud	Gypframe 146 TI 90 Tabbed 'I' Stud	Lower framework stud centres - Max (mm)	600
Framework fixing	British Gypsum Wafer Head Jack-Point Screws 13mm		

Gypframe 'I' studs fixed in to Gypframe channel through bottom flange with two wafer head screws.

Abutment channel	Gypframe 146 TSC 90 Tabbed Starter Channel Gypframe 148 EDC 80 Extra Deep Flange Floor & Ceiling Channel		
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Channels suitably fixed to abutment at 600mm centres in two lines staggered by 300mm.

Secondary framework	Gypframe MF5 Ceiling Section	Secondary framework centres - Max (mm)	450
Secondary framework fixing	British Gypsum Wafer Head Jack-Point Screws 13mm		

Secondary framework fixed to primary framework using two wafer head screws per connection.

Perimeter framing	Gypframe MF6 Perimeter Channel		
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Perimeter channel positioned tight up to abutment channels and suitably fixed to background at 600mm centres.

Core

Lower framework core	Gyproc CoreBoard 19mm		
Horizontal joint	Gyproc CoreBoard 19mm Gypframe GA3 Steel Angle		

Horizontal board joints in core layer closed off by inserting steel angle between board joints and 122mm strip of core board fire stop with beads of sealant along both longer edges fixed to angle using three drywall screws.

Retaining channel	Gypframe G102 Retaining Channel		
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Retaining channels inserted between the face of the coreboard and the lower flange of the stud / starter channel.

Insulation

No insulation

Board and fixings

Lower framework ceiling board, Layer 1	Gyproc FireLine 15mm	Lower framework ceiling screws, Layer 1	British Gypsum Drywall Screws 25mm
Lower framework ceiling board, Layer 2	Gyproc FireLine 15mm	Lower framework ceiling screws, Layer 2	British Gypsum Drywall Screws 40mm

Fix all ceiling boards securely to all supports at 230mm maximum centres in the field of the board and at 150mm maximum centres along the short board ends and at ceiling perimeters. 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.

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. For pressurised airshafts and service ducts apply a continuous bead of sealant leaving no gaps to all framing members at perimeter junctions with walls, air gaps around openings, and other potential air leakage points. To frame members prior to fitting core boards and around fire stops cloaking horizontal core board joints. To all metal framing around board perimeters of first layer boarding and board perimeters when fixing outer layer board.

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)	120
Maximum span (mm)	4000

Fire insulation (mins)	120
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The maximum span is limited by the fire state field of application or by limiting deflection of L/400, whichever is less.

Sound insulation (Airborne) Rw (dB)	48
System depth (mm)	404
Approx. weight (kg/m ²)	88

Standards

These standards relate to the above performance data.

BS 2750-3, Measurement of sound insulation in buildings and of building elements. Laboratory measurements of airborne sound insulation of building elements.

BS EN 1364-2, Fire resistance tests for non-loadbearing elements - Ceilings.

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.