

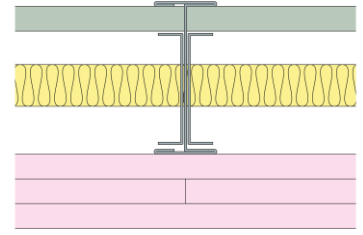
# Technical Specification

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

GypWall Shaft

## A306036 (A) (EN)

Gypframe 92 I 90 'I' Studs at 600mm centres with Gyproc CoreBoard 19mm between studs, secured by Gypframe G105 Retaining Channel. Three layers of Gyproc FireLine 15mm to non-shaft side and 25mm Isover Acoustic Partition Roll (APR 1200) in the cavity. For heights up to 4200mm.



## Head design

Head channel	<b>Gypframe 94 EDC 70 Extra Deep Flange Floor &amp; Ceiling Channel</b>
Gypframe channel suitably fixed through fire stop in to soffit at 600mm centres in two lines staggered by 300mm.	
Deflection allowance	Vertical deflection only. To be determined by a Structural Engineer.
Dropped soffit	For principles of deflection head construction refer to detail ST-129-Z2L3-07.

## Framework

Stud	<b>Gypframe 92 I 90 'I' Stud</b>
Stud centres - Max (mm)	600
Abutment channel	<b>Gypframe 92 SC 90 Starter Channel</b>
Gypframe starter channel suitably fixed wall at 600mm centres in two lines staggered by 300mm.	
Base channel	<b>Gypframe 94 FEC 50 Folded Edge Standard Floor &amp; Ceiling Channel</b>
Gypframe channel suitably fixed to floor at 600mm centres in two lines staggered by 300mm.	

## Core

Core	<b>Gyproc CoreBoard 19mm</b>
Horizontal joint	<b>Gypframe GA3 Steel Angle</b> <b>Gyproc CoreBoard 19mm</b>
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	<b>Gypframe G105 Retaining Channel</b>
Retaining channels inserted between the face of the coreboard and the flange of the stud / starter channel.	

## Insulation

Insulation, Layer 1	<b>25mm Isover Acoustic Partition Roll (APR 1200)</b>
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## Board and fixings

Board side 1, Layer 1	<b>Gyproc FireLine 15mm</b>	Screws side 1, Layer 1	<b>British Gypsum Jack-Point Screws 35mm</b>
Board side 1, Layer 2	<b>Gyproc FireLine 15mm</b>	Screws side 1, Layer 2	<b>British Gypsum Jack-Point Screws 41mm</b>
Board side 1, Layer 3	<b>Gyproc FireLine 15mm</b>	Screws side 1, Layer 3	<b>British Gypsum Jack-Point Screws 60mm</b>

Board layers are fixed securely to Gypframe metal supports around the perimeter of the board and intermediate stud positions at maximum 300mm centres. External corners reduce fixings to 200mm. Drywall screws can be used for fixing boards to metal profiles with a thickness of 0.8mm or less (excluding 'I' studs). All joints staggered between layers. Fix working from the centre of each board. Position screws not less than 13mm from cut edged and 10mm from bound edges of boards. Set screw heads flush with plasterboard surface; do not break paper or gypsum core.

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

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 jointing compound. For pressurised airshafts and service ducts apply a continuous bead of sealant leaving no gaps to all framing members at perimeter junctions with walls, floors and ceilings, 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.

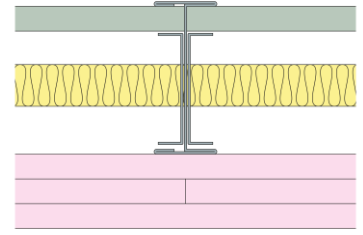
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## System performance

Please read performance data with any associated standards.

Fire integrity (mins)	<b>120</b>
Maximum height (mm)	<b>4200</b>

Fire Insulation (mins)	<b>120</b>
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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)	<b>46</b>
Duty rating	<b>Severe</b>
Partition thickness (mm)	<b>139</b>
Approx. weight (kg/m <sup>2</sup> )	<b>56</b>

## Standards

These standards relate to the above performance data.

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.

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

## 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.