GypCeiling Lining
Identification

Use this simple ceiling lining system for any project

GypCeiling Lining is a versatile ceiling lining system designed for a wide range of installations, from residential properties to large commercial developments.

Simple to install and compatible with the full range of Gyproc plasterboards and Gyptone and Rigitone acoustic ceiling boards, this system significantly improves performance in both refurbishments and new builds. GypCeiling Lining is suitable for concrete soffits or timber joists, and it uses the same components for either wall or ceiling installations. You could also install it onto plasterboard ceilings, making it ideal for projects where you need to keep the existing ceiling.

Gyptone products containing ACTIVair® canbe used with this system. ACTIVair makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.

Fire resistance **up to 60 mins**

Sound insulation (airborne) **54 R_wdB**

Sound absorption coefficient **0.35-0.85 α_w**

©

Why specify GypCeiling Lining?

Suitable for a wide variety of projects, from residential to commercial, and from refurbishment to new build

Meets a range of performance criteria depending on the products you use

Comes with our **SpecSure**® lifetime warranty

Capable of achieving up to 60 minutes fire resistance, subject to specification

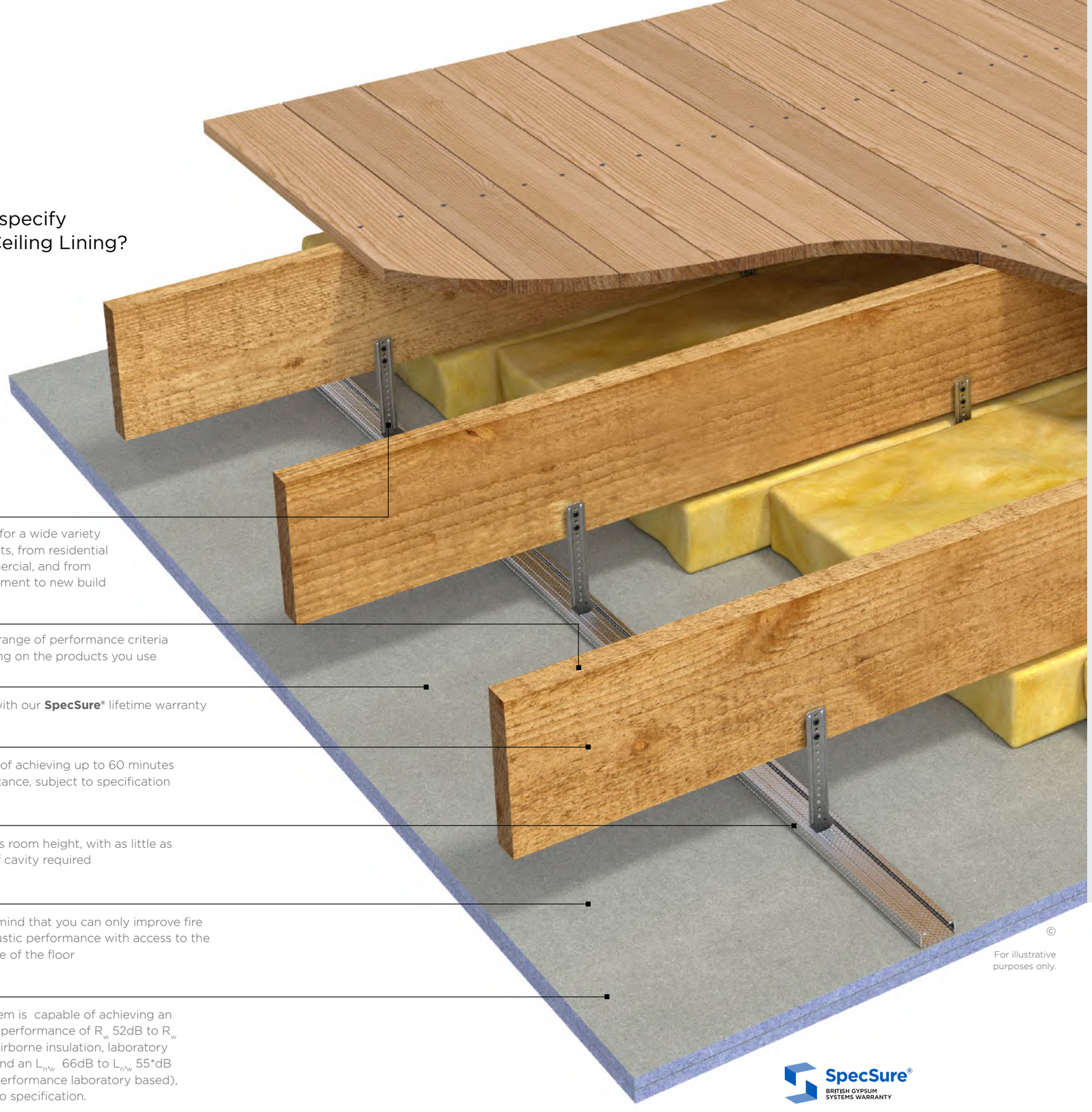
Preserves room height, with as little as 25mm of cavity required

Keep in mind that you can only improve fire and acoustic performance with access to the underside of the floor

The system is capable of achieving an acoustic performance of R_w 52dB to R_w 63dB* (airborne insulation, laboratory based) and an $L_{n'w}$ 66dB to $L_{n'w}$ 55*dB impact performance laboratory based), subject to specification.

Up to Class B absorption with Gyptone/Rigitone boards

* Incorporating a GypFloor Silent above



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SpecSure®
BRITISH GYPSUM SYSTEMS WARRANTY

There are specifications within this system that qualify for our **SpecSure**® warranty. For more information see **british-gypsum.com/specsure**

GypCeiling Lining

Design considerations

Building design – GypCeiling Lining comprises Gypframe GL1 Lining Channels suspended by Gypframe brackets (for flat soffits) or Gypframe Timber Connectors (for timber joists). The ceilings boards are screw fixed to the underside of the Gypframe GL1 Lining Channels.

Planning – key factors

The depth of the ceiling cavity is determined by the positioning of the fixing brackets. For concrete soffits the fixing brackets allow sufficient adjustment for levelling the ceiling. When using Gypframe GL2 Brackets, allow for a stand-off of 25mm to 75mm plus the lining thickness. When using Gypframe GL9 Brackets, allow for a stand-off of 25mm to 125mm plus the lining thickness. When using Gypframe GL12 Brackets, allow for a stand-off of 25mm to 175mm plus the lining thickness. When fixing to timber joists using Gypframe GL6 Timber Connectors, allow for a maximum cavity depth of 120mm, measured from the bottom of the joists to the back of the ceiling lining.

Cavity barriers

Form cavity barriers, if needed, with Gyproc FireLine or Glasroc F MultiBoard screw-fixed to a suitable frame. Fix the framing to the structure to avoid undue loading of the ceiling suspension grid. Fix the bottom of the framework to the ceiling grid.

Handy hint

A maximum stand-off of 175mm can be accommodated by the GypCeiling Lining system. For increased plenum depths, refer to GypCeiling MF on page 9.3.

Relative humidity

GypCeiling Linings lined with Gyproc plasterboards, Gyptone, Rigitone or Glasroc specialist boards are suitable for use under normal occupancy conditions. Buildings should be dry, glazed and enclosed, with relative humidity (RH) levels no greater than 70% at 10°C to 20°C.
For high humidity or high moisture conditions, use Gyproc Moisture Resistant variants or Glasroc F MultiBoard. Refer to Robustness in system design principles on **british-gypsum.com**.

Vapour control

For areas other than where perforated Gyptone or Rigitone boards are used, a face layer of duplex grade plasterboard or two coats of Gyproc Drywall Sealer applied to the face of the lining will provide water vapour control.

Acoustic performance

Gyptone and Rigitone boards are perforated and designed to provide sound absorption when used in conjunction with an airspace behind the ceiling. Increased sound absorption levels can be achieved by installing insulation over the back of the ceiling.

Thermal performance

Lay Isover insulation over the framework to provide the required standard of thermal insulation. Please refer to Technical Support on **british-gypsum.com**

Looking for performance selection tables?

We're committed to providing technical information that is transparent, clear, accurate, and always up-to-date. So you can rely on it when making decisions at any stage of the design, specification, installation, use, maintenance and disposal process.

All performance data is now available to view and download on our website.

british-gypsum.com/gypceiling-lining

Table 1: Maximum component centres (mm)

Board lining	Gypframe GL1	Gypframe GL2, GL9 or GL12	Gypframe GL6
12.5mm	450	1200	600
15mm	600	1200	600
2 x 12.5mm	450	1200	600
2 x 15mm	600	1200	600
Rigitone board	330	1200	600
Gyptone board	600	1200	600

Control joints

Control joints may be required to allow for expansion and contraction of the main structure. They should coincide with movement joints within the main structure.

Fixing to the structure

Fix Gypframe GL8 Track to the perimeter at 600mm centres. Gypframe GL11 GypLyner Anchors are suitable for fixing brackets to solid concrete soffits. Refer to Table 1 for fixing centres.

Services

You can use the ceiling void above the suspension grid to route all service requirements including ducting, pipework, electrical cables, and conduits. Ducting, ventilation units, etc. must be independently supported from the structure. Where light fittings, access panels and similar components are incorporated as part of the design, you must maintain the integrity of the ceiling to meet fire resistance and sound insulation requirements.

Fixtures

Fixtures with a maximum weight of 3kg, e.g. single lights, can be fixed into the channels. For all other fixtures, provide independent suspension from the structure.

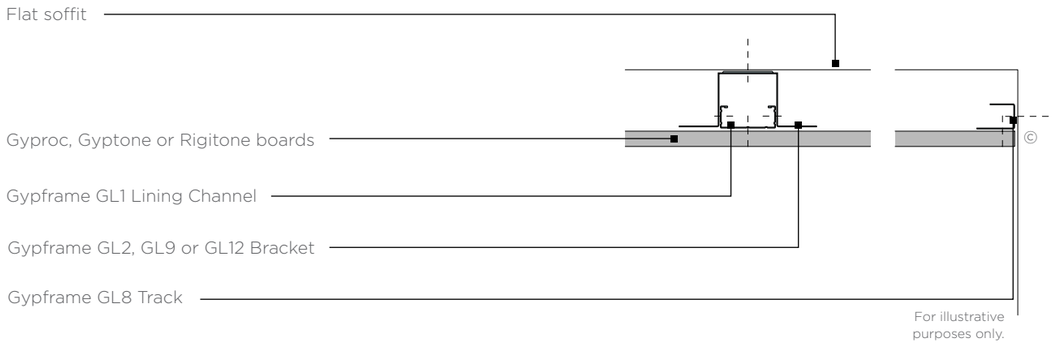
Board finishing

Refer to Finishes, Section 8. Take extra care when jointing Rigitone and Gyptone boards. Do not fill the perforations as this will impair acoustic performance.

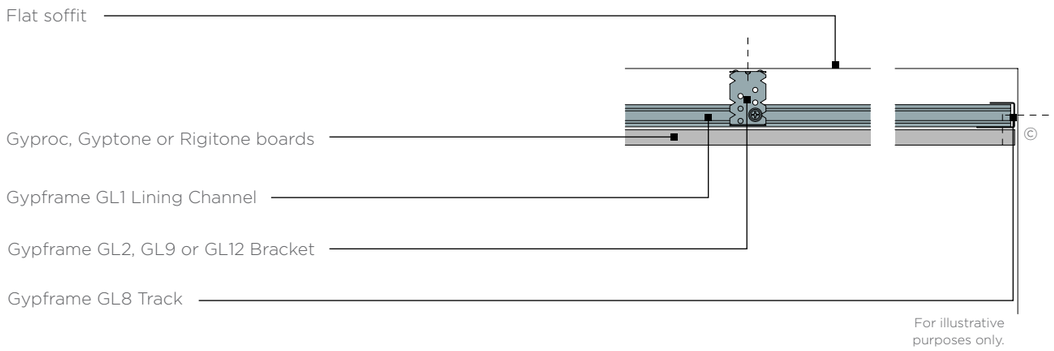
Ceilings

GypCeiling Lining
Construction details

1. Perimeter parallel to Gypframe GL1 Lining Channel for flat soffit

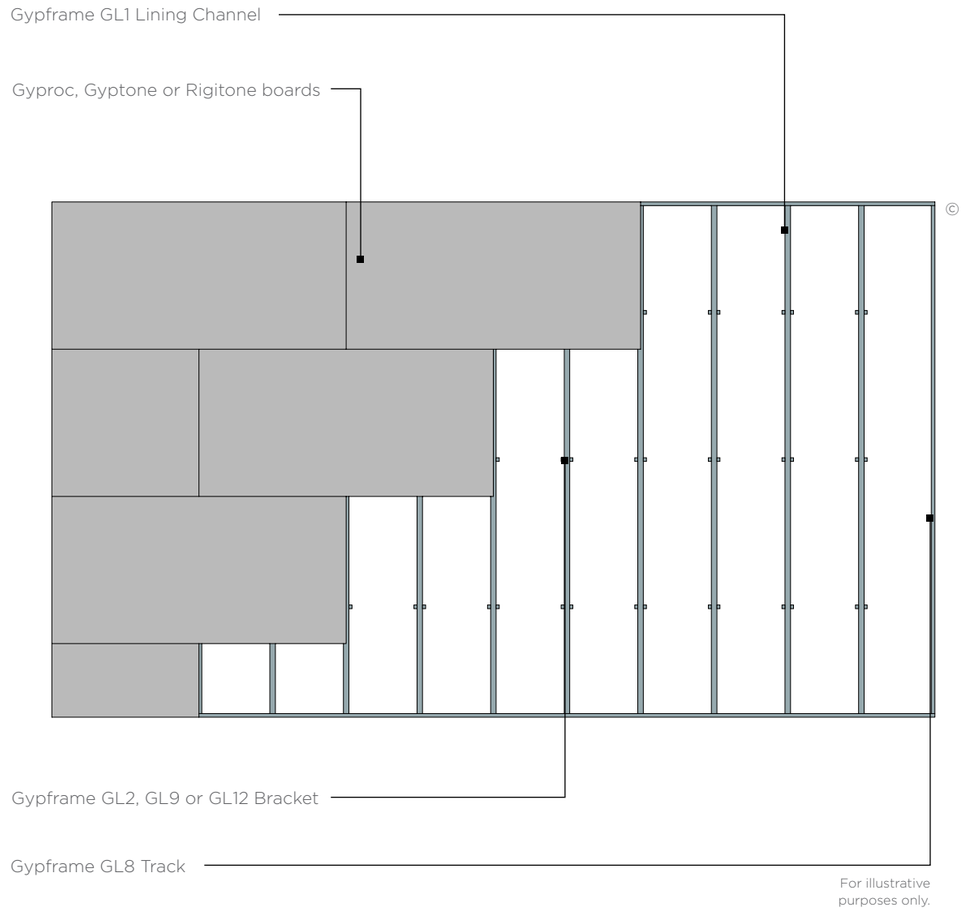


2. Perimeter perpendicular to Gypframe GL1 Lining Channel for flat soffit



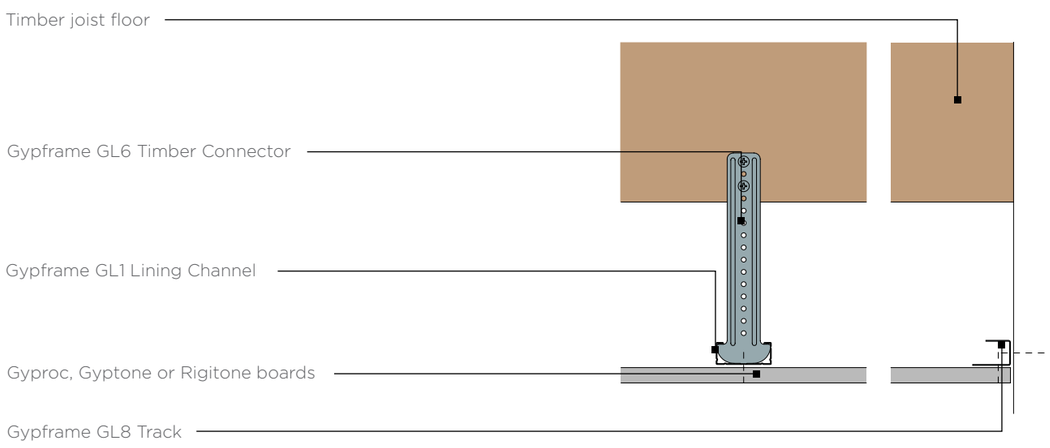
3. Reflected ceiling plan for flat soffit

Single layer 15mm Gyproc plasterboard with channels at 600mm maximum centres, 12.5mm Gyproc plasterboard with channels at 450mm maximum centres, Gyptone board with channels at 600mm maximum centres or Rigitone board at 330mm maximum centres

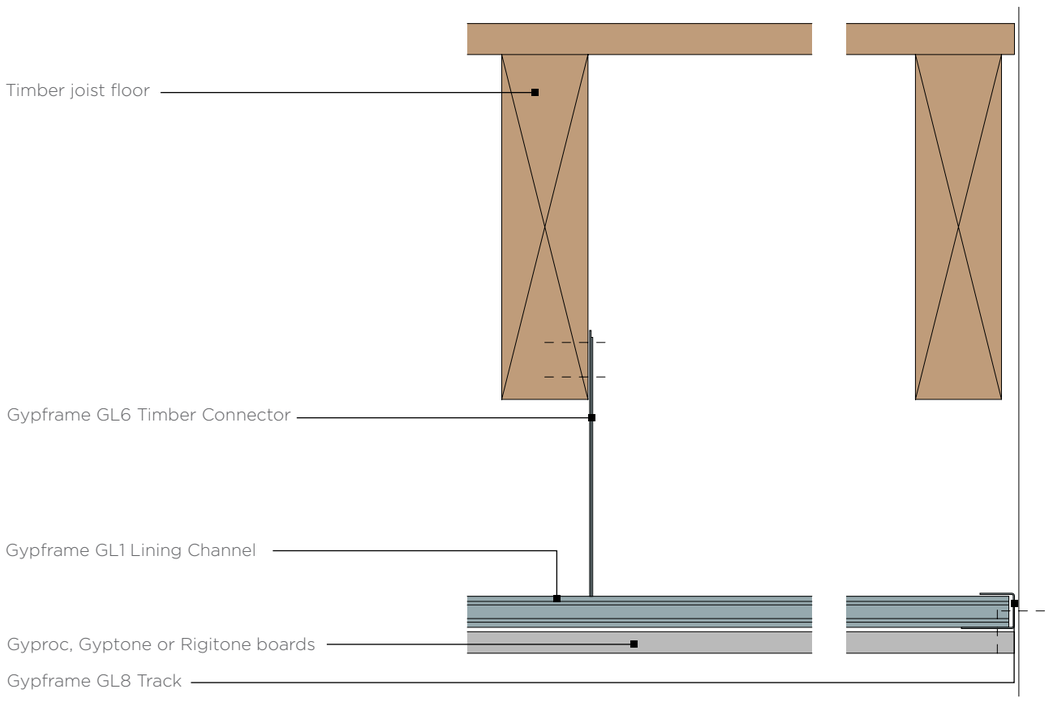


GypCeiling Lining
Construction details

4. Perimeter parallel to Gypframe GL1 Lining Channel for timber joist floor

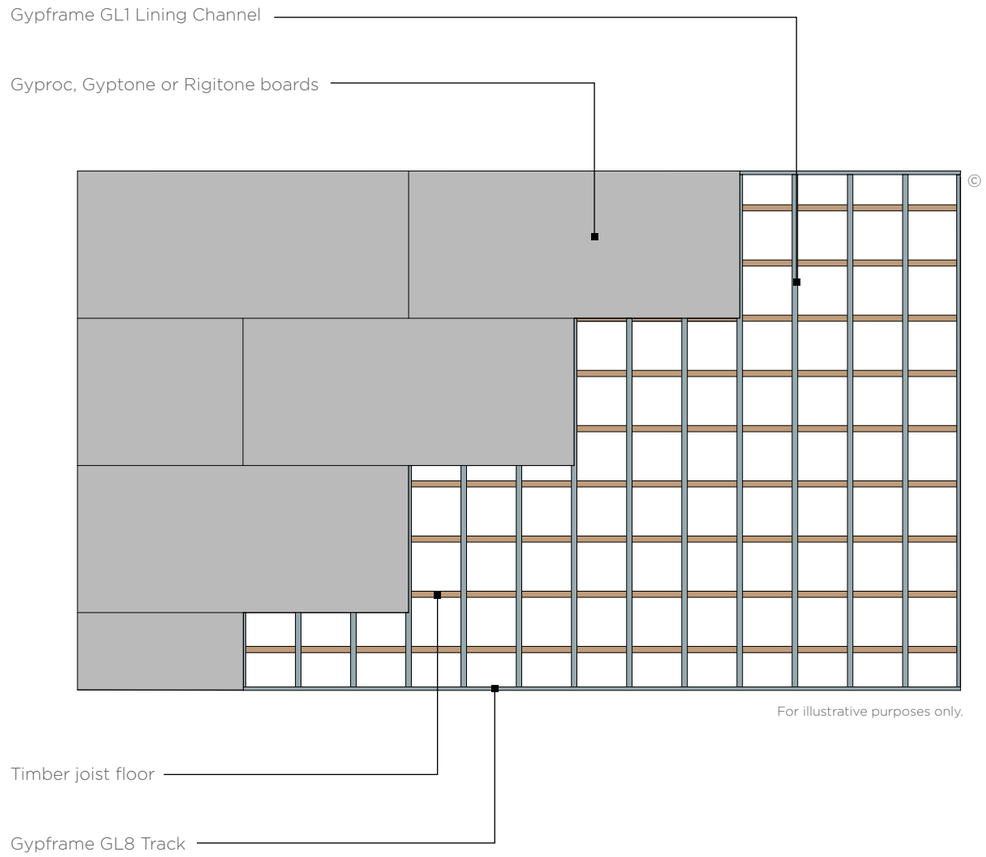


5. Perimeter perpendicular to Gypframe GL1 Lining Channel for timber joist floor



6. Reflected ceiling plan for timber joist floor

Single layer 15mm Gyproc plasterboard with channels at 600mm maximum centres, 12.5mm Gyproc plasterboard with channels at 450mm maximum centres, Gyptone board with channels at 600mm maximum centres or Rigitone board at 330mm maximum centres



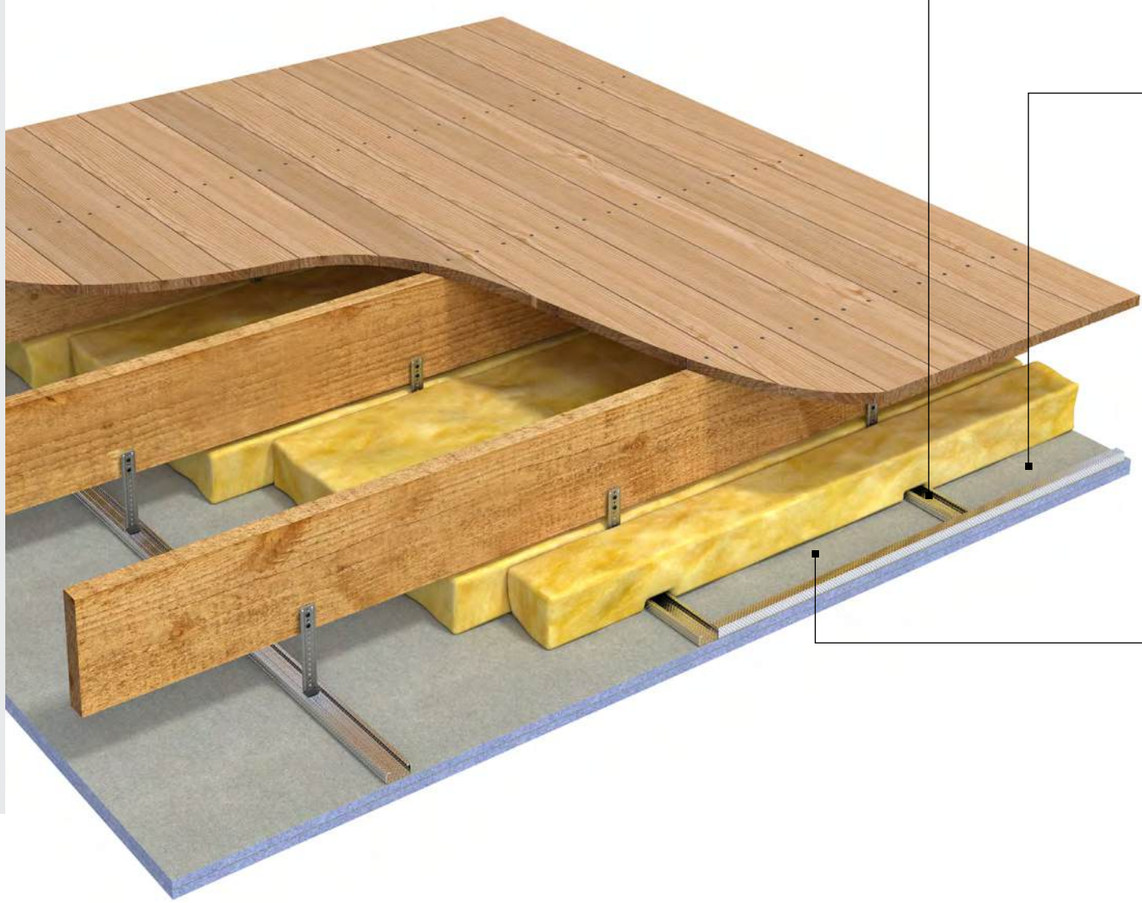
For illustrative purposes only.

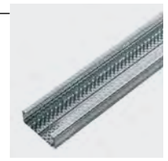
Note: Gypframe GL6 Timber Connectors not shown on construction detail 6.

GypCeiling Lining

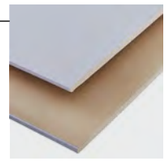
System components

Our versatile, high-performance ceiling lining system, suitable for concrete soffits or timber joists.

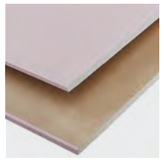




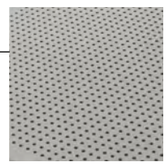
Gypframe GL1 Lining Channels
A steel framed lining component forming main support channel for plasterboard. Lining Channels can be installed vertically or horizontally and secured to backgrounds using brackets or timber connector components.



Gyproc SoundBloc
Gyproc SoundBloc is a plasterboard with a high density core. Use it to achieve specified sound insulation levels through walls, ceilings and floors.



Gyproc FireLine
Gyproc FireLine is a plasterboard that contains glass fibre and other additives for extra fire protection. Use it in partitions, ceilings and steel encasement systems to achieve the fire performance required in domestic separating walls, corridors, garages and steel encasements.



Gyptone acoustic boards
Gyptone acoustic boards combine distinctive looks with good acoustic performance. A range of perforation designs work with an acoustic fleece backing to absorb unwanted noise and make sounds like speech much clearer. All Gyptone products contain ACTIVair which makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.

Rigitone acoustic boards
The Rigitone acoustic boards help you create striking seamless surfaces that make a lasting impression. A range of perforation designs and an acoustic fleece backing absorb noise to make spaces more enjoyable and easier to use. All Rigitone products contain ACTIVair which makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.

SpecSure®
BRITISH GYPSUM SYSTEMS WARRANTY

There are specifications within this system that qualify for our **SpecSure**® warranty. For more information see **british-gypsum.com/specsure**

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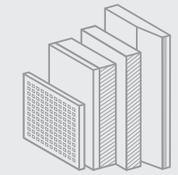
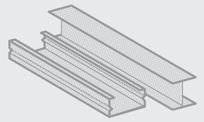
Careful product choice is central to maintaining system integrity, performance requirements as well as eligibility for our **SpecSure**® warranty. **Ensure an optimum standard of build by considering...**

What are you fixing?



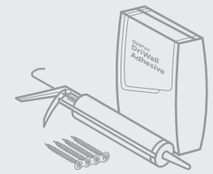
Our high-performance ceilings range includes stylish perforated gypsum boards and tiles, capable of providing up to Class B absorption. See **british-gypsum.com** for more details.

What are you fixing to?



Versatile metal framing and grid structures that provide strong and adaptable solutions for our ceiling systems. See **british-gypsum.com** for more details.

What are you fixing with?



Our fixings offer guaranteed compatibility with our systems, and are rigorously tested to meet the highest quality standards. See **british-gypsum.com** for more details.

What are you finishing with?

Plaster

Our wide range of Thistle plasters and Thistle accessories give you everything you need to finish a job to the highest possible standard.
See **british-gypsum.com** for more details.

Finishing products

Our Gyproc jointing range gives you everything you need to complete a ceiling system, whatever the size and complexity of the project.
See **british-gypsum.com** for more details

Where defined performance requirements are required see our White Book Specification Selector on british-gypsum.com

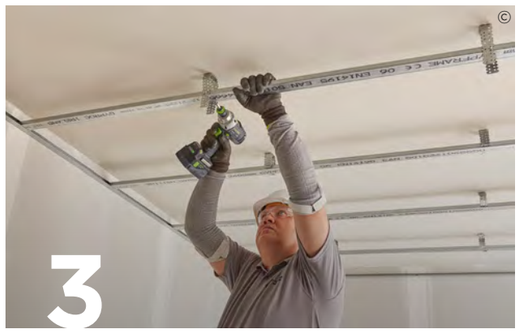
Ceilings

GypCeiling Lining
Installation

The information below is intended to be a basic description of how the system is built.

Suitably fix Gypframe GL8 Perimeter Channels to the perimeter walls at the required centres. Ensure the large lip is positioned at the bottom.

Suitably fix Gypframe GL2, GL9 or GL12 Brackets as required to the soffit at the required centres.



Position Gypframe GL1 Lining Channels into the perimeter track and between each leg of the Gypframe GL2, GL9 or GL12 Brackets. Use British Gypsum Wafer Head Drywall Screws to screw-fix the bracket to the Gypframe GL1 Lining Channels.

Bend the protruding legs of each bracket to sit back from the channel face.

Important point – Gypframe GL1 Lining Channel sections are extended using Gypframe GL3 Channel Connectors.

Use Gyproc Sealant to seal the perimeter of each frame.

Suitably fix boards to form one or two layer linings as specified using appropriate fixing at 90 degrees to the Gypframe GL1 Lining Channels and Gypframe GL8 track.

Important point – Use British Gypsum Drywall Screws to fix GL6 Timber Connectors to the side of the joists. The connectors must be aligned accurately and level as they cannot be adjusted once Gypframe GL1 Lining Channel is engaged into a row of timber connectors and twisted into position.
See specific detail for more information.