GypFloor Silent
Identification

Improve acoustic comfort in your home with our sound insulating floor system

GypFloor Silent is an acoustic floor system that upgrades existing timber joist floors to enhance sound insulation in residential conversion or improvement projects.

It's designed to meet the building regulations for separating floors between rooms created by a change of use or conversion. The system reduces impact noise, such as from footsteps or moving furniture, reaching the room below through the floor structure. It's also ideal for boosting performance in new build homes.

This system can be skim finished with ThistlePro® PureFinish which contains ACTIVair®. ACTIVair makes indoor air healthier by eliminating up to 70% of formaldehyde present in indoor air.

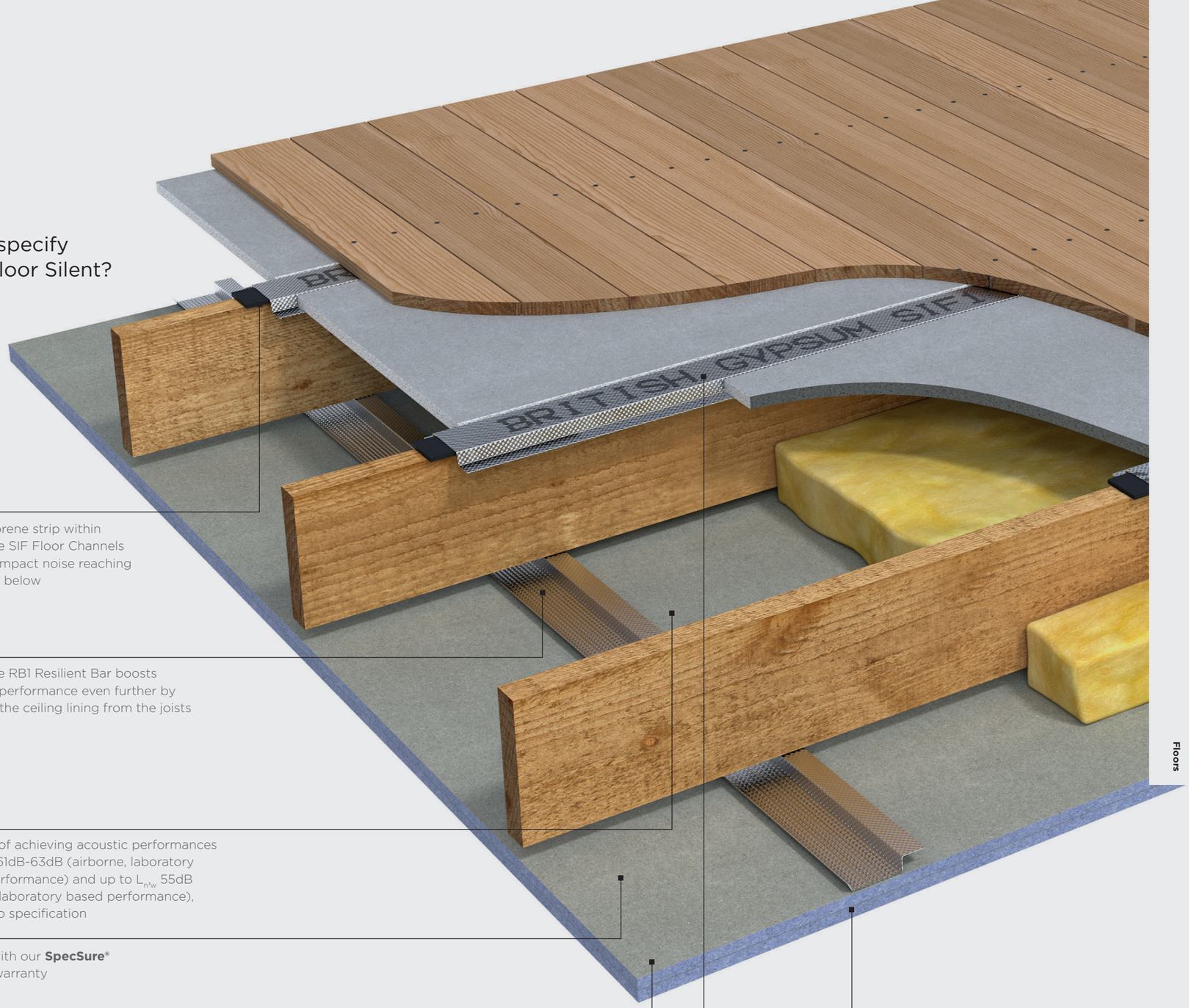
ACTIV air

Fire resistance **up to 60 mins**

Sound rating **61-63 R_wdB**



Why specify GypFloor Silent?



The neoprene strip within Gypframe SIF Floor Channels reduces impact noise reaching the room below

Gypframe RB1 Resilient Bar boosts acoustic performance even further by isolating the ceiling lining from the joists

Capable of achieving acoustic performances from R_w 61dB-63dB (airborne, laboratory based performance) and up to $L_{n'w}$ 55dB (impact, laboratory based performance), subject to specification

Comes with our **SpecSure®** lifetime warranty

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

Adds only 7mm to the existing floor height, minimising the impact on existing fixtures and fittings compared with alternative solutions like floating floor systems

Allows you to improve the fire and acoustic performance of existing structures without extensive alteration

SpecSure® BRITISH GYPSUM SYSTEMS WARRANTY

There are specifications within this system that qualify for our **SpecSure®** warranty. For more information, contact us through **british-gypsum.com**

GypFloor Silent
Design considerations

Building design

GypFloor Silent comprises Gypframe SIF Floor Channels positioned over timber joists. Gypframe RB1 Resilient Bars are then fixed to the underside of the joists.

Planning – key factors

GypFloor Silent adds 7mm to the height of the joists. The final ceiling linings adds 16mm plus the thickness of the lining boards to the underside of the joists. Fix ceiling linings before drylining or plastering walls. If this is not possible, ceiling linings should neatly abut the wall. In refurbishment work, check the level of existing joists. They should be reasonably level and straight for the flooring application. If there is any misalignment to the underside, consider using a GypCeiling Lining or GypCeiling MF suspended ceiling to support the ceiling boards.

Structural

Upgrading adds to floor mass. The load capacity of the supporting floor joists should be checked by a structural engineer, to determine to the effects of lateral buckling and the need for intermediate restraints.

Flanking transmission

Ensure that the associated structure is suitable to achieve the level of sound insulation required. Refer to Building Regulations Approved Document E for this floor type and the needs of the surrounding structure. Where the walls supporting the floor weigh less than 365kg/m^2, consider using an acoustic shield lining to the walls.

Handy hint

Gypframe SIF Floor Channels can accommodate a wide range of joist widths:

- Gypframe SIF1 Floor Channel for joists ≤63mm
- Gypframe SIF4 Floor Channel for joists 64 to 75mm
- Gypframe SIF2 Floor Channel for joists ≥76mm
- Ensure that channels are never fixed to the joist.

Existing plaster and lath ceilings

To achieve fire resistance ratings, we recommend under-drawing the lath and plaster with chicken wire (fixed in accordance with manufacturers' recommendations). Then form a cavity with minimum 38 x 38mm timber battens or GypCeiling Lining.

Services

Install services within the floor zone to allow easy access from above. Where possible, follow the line of the floor joists.

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.

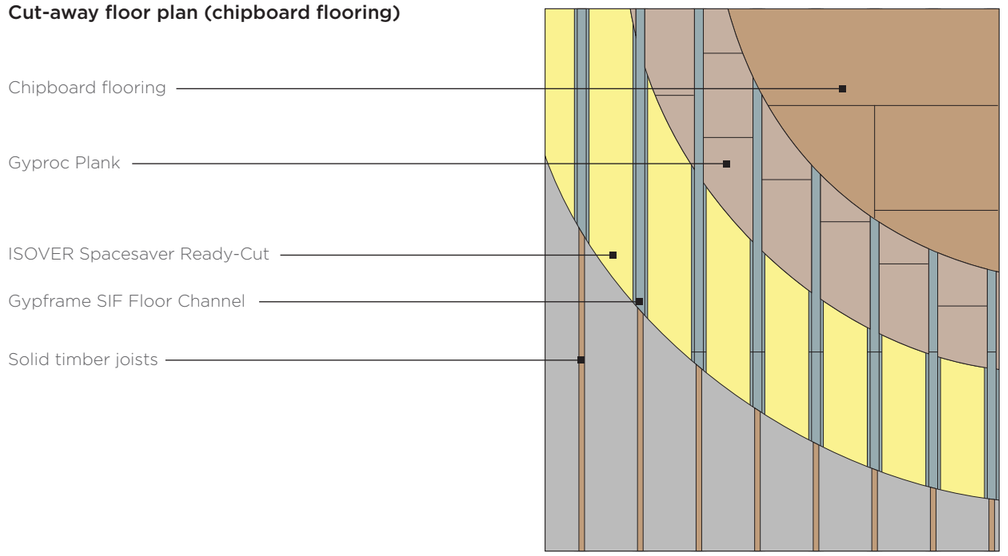
All performance data is now available to view and download on our website.

british-gypsum.com/gypfloor-silent

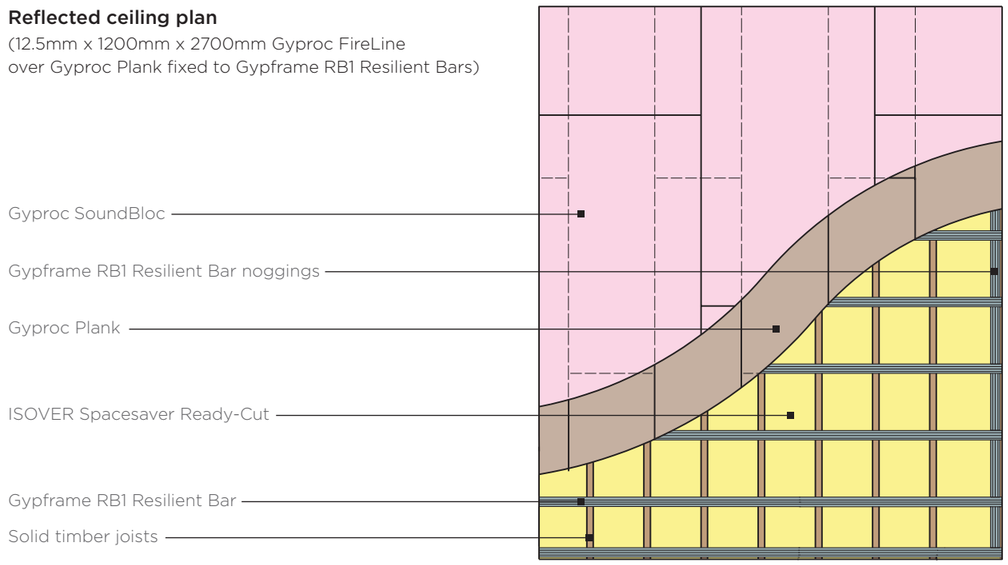


GypFloor Silent
Construction details

1. Cut-away floor plan (chipboard flooring)

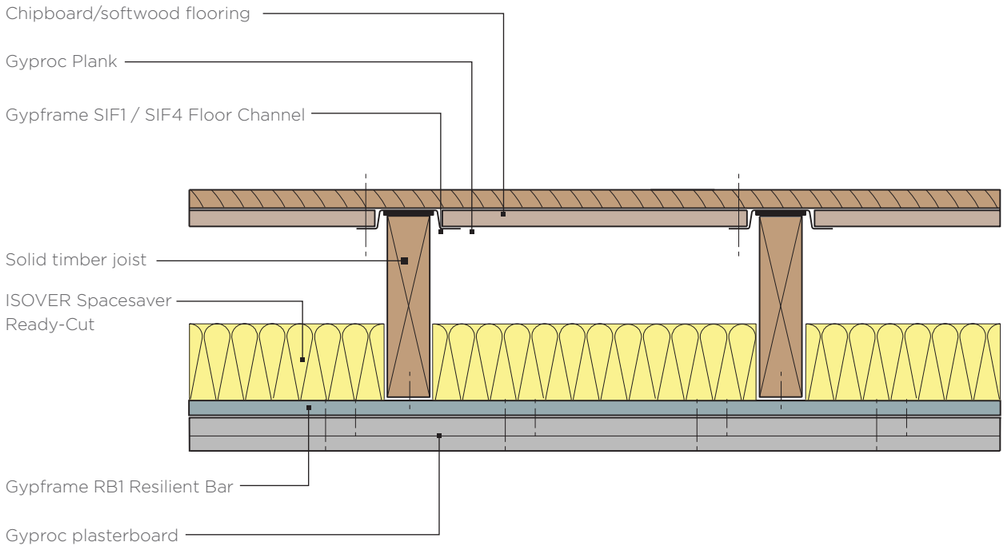


2. Reflected ceiling plan
(12.5mm x 1200mm x 2700mm Gyproc FireLine over Gyproc Plank fixed to Gypframe RB1 Resilient Bars)

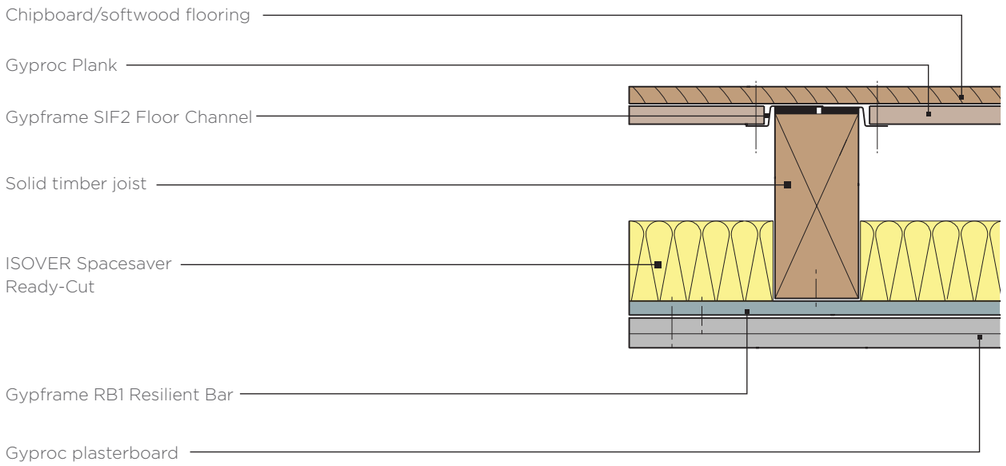


GypFloor Silent
Construction details

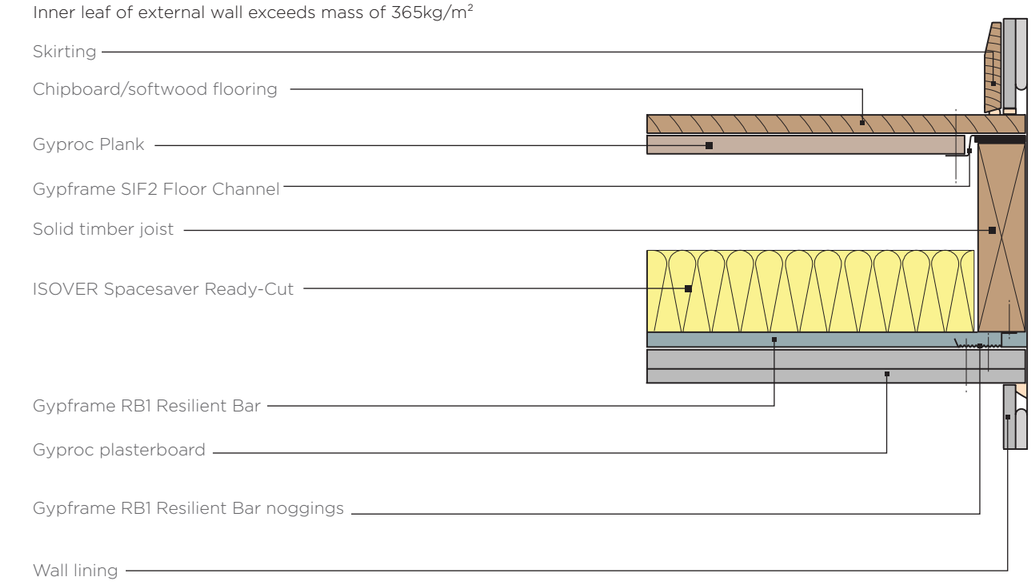
3. Typical section through floor



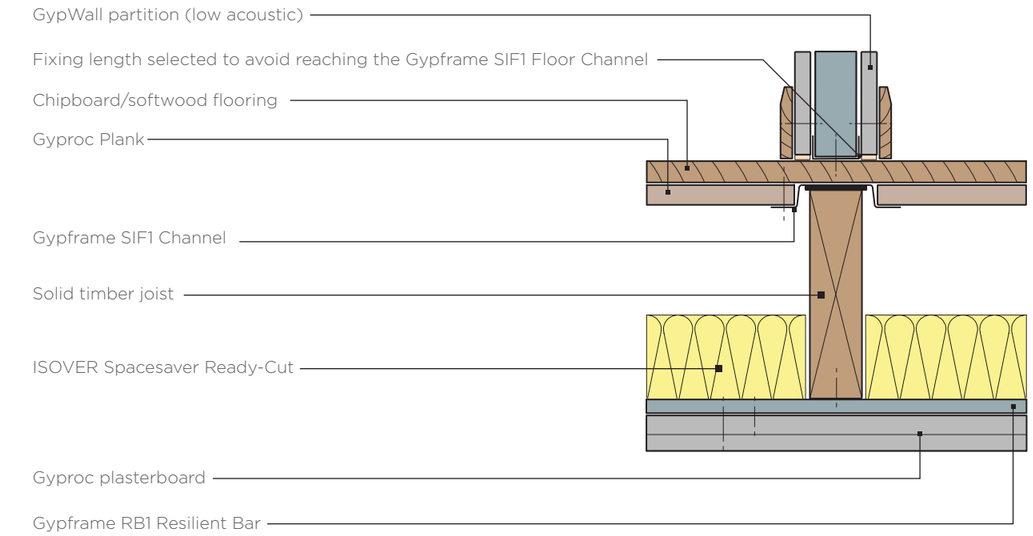
4. Section through floor
Joist width over 75mm



5. Perimeter junction
Inner leaf of external wall exceeds mass of 365kg/m²



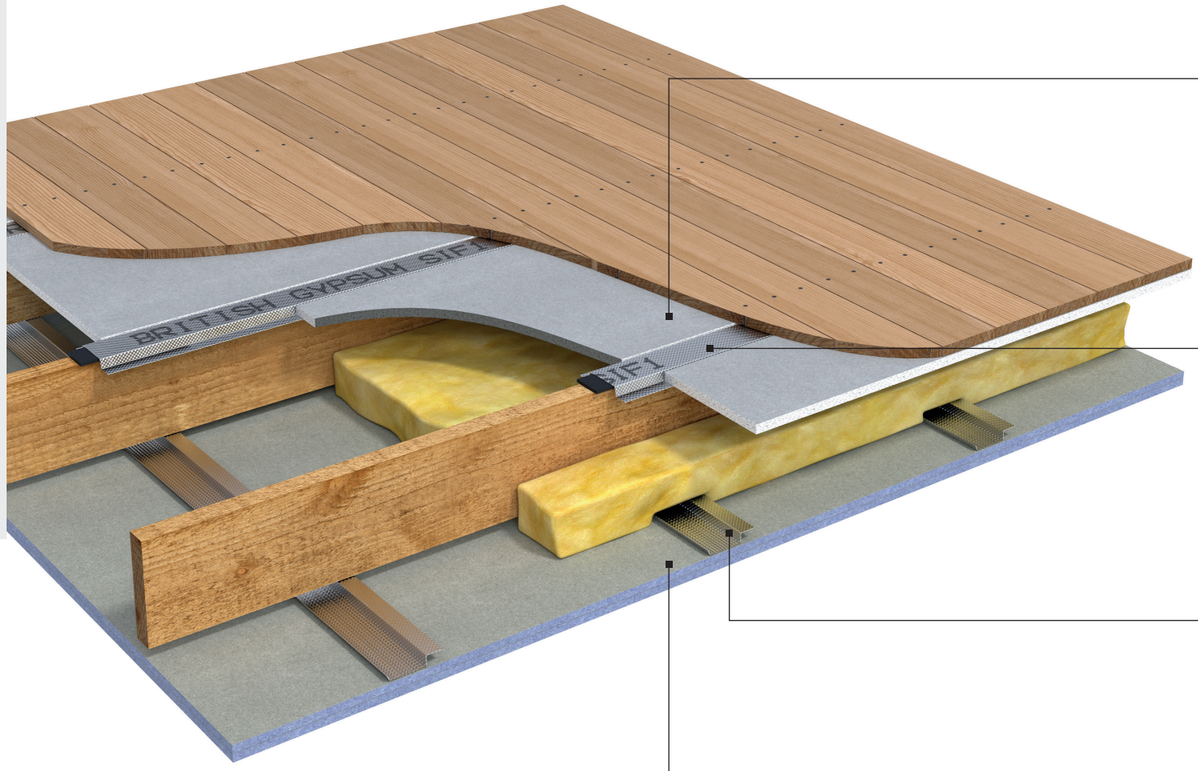
6. Non-loadbearing partition sited over joists

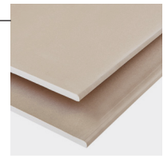


GypFloor Silent

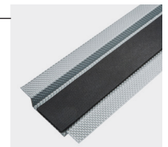
System components

Enhance acoustic comfort in your home with our sound insulating floor system.

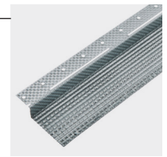




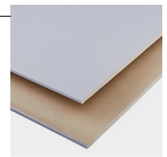
Gyproc Plank
Gyproc Plank is a version of Gyproc WallBoard used in systems with high sound insulation. Use it in systems that require high levels of acoustic performance including GypFloor Silent, GypWall Twin Frame Audio, GypWall Twin Frame Braced and GypWall Single Frame.



Gypframe SIF Channels
A steel channel with an integral neoprene acoustic isolator to reduce impact sound transmission. SIF floor channels are located directly on top of the joists ready to receive cut pieces of square edge Gyproc Plank. Gypframe SIF1 can be used for joists 63mm or less.



Gypframe RB1 Resilient Bar
A specially engineered product providing optimum acoustic performance In wall and ceiling systems. Gypframe Resilient Bars are used in conjunction with metal studs (GypWall Resilient) or timber studs/ joists to reduce sound transmission.



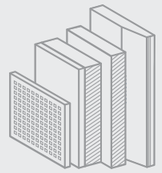
Gyproc SoundBloc
Gyproc SoundBloc is a plasterboard with a high density core. Use it to achieve specified sound insulation levels through walls, ceilings and floors.

SpecSure®
BRITISH GYPSUM SYSTEMS WARRANTY

There are specifications within this system that qualify for our **SpecSure**® warranty. For more information, contact us through **british-gypsum.com**

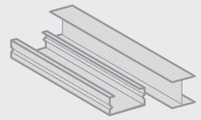
Careful product choice is central to maintaining system integrity, performance requirements as well as eligibility for our **SpecSure**® warranty. **Ensure an optimum standard of build by considering...**

What are you fixing?



Our high performance range of plasterboards for use in sound insulating floor systems in newbuild or refurbishment projects. See **british-gypsum.com** for more details

What are you fixing to?



Specially designed Gypframe metal profiles provide a high performance and versatile framing solution to improve sound insulation on separating floors. 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 wall lining 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

GypFloor Silent
Installation

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



Locate Gypframe SIF Floor Channels centrally over the joists.

Important point – do not fix SIF Floor Channels to the joists.



Cut Gyproc Plank and position between the channels.



Lay flooring across the Gypframe SIF Floor Channels. Use Gypframe SIF5 Floor Screws to fix through the Gyproc Plank to the channel flange on one side only.

Important point – it is important to ensure that no fixings are allowed to connect the Gypframe SIF Floor Channels to the joists.



Use British Gypsum Drywall Screws to install Gypframe RB1 Resilient Bars to the underside of the joists.



Lay 100mm ISOVER Spacesaver Ready-Cut between joists and rest on the Gypframe RB1 Resilient Bars. Use British Gypsum Drywall Screws to fix the specified ceiling board fixed to the Gypframe RB1 Resilient Bars.

Important point – use the correct length British Gypsum Drywall Screws to ensure the screws do not contact the timber joists.