System type – **GypFloor Silent**

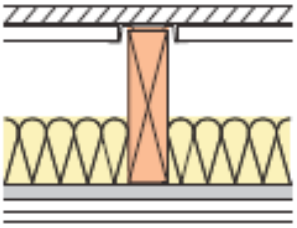
Product Substantiation Report (PSR) reference – **C204001**

Performance characteristics

Ceiling Fire Resistance (BS 476):	**60 minutes**
Airborne Laboratory Sound Resistance (BS EN 717):	**63 R_wdB**
Impact Laboratory Sound Transfer (BS EN 717):	**55 L_{nw}dB**
Ceiling depth below structure (excluding finishes):	**48.0mm**

Performance criteria stated above relates to directly fixing Gyproc plasterboards to the underside of a **timber joist structure with wood flooring** of following minimum characteristics.

Timber joist minimum width:	**38mm**
Timber joist maximum centres:	**600mm**
Timber noggings required between primary joists:	**Yes – minimum 38mm x 38mm sections** required to support all face layer plasterboard edges at perimeter of the ceiling membrane.
Minimum thickness & grade of flooring:	**Minimum 21mm plain edged wood board flooring**



Framing components

Timber structure as outlined above

Gyproc joist capping channels:	**Gypframe SIF1 for joists 38mm – 63mm** **Gypframe SIF4 for joists 64mm – 75mm** **Gypframe SIF2 for joist over 75mm (x2) and also around perimeters**
Gyproc resilient component:	**Gypframe RB1 Resilient Bar**
Installed centres of resilient component:	**400mm** at right angles to timber joists
Acoustical sealant:	**Gyproc Sealant applied around perimeter of ceiling**
Drawing references:	Refer to relevant Architects drawings

Plasterboard components

Located between Gypframe SIF Channels:		**19mm Gyproc Plank**
Number of plasterboard layers to underside:		**2**
Gyproc plasterboards:	Layer 1 (Inner):	**19.0mm Gyproc Plank**
	Layer 2	**12.5mm Gyproc SoundBloc**

	Layer 3	n/a
Screw fixings for boarding:	Through flooring:	**55mm Gyprame SIF Floor Screws**
	Layer 1 (Inner):	**35mm Gyproc Drywall Screws**
	Layer 2	**45mm Gyproc Drywall Screws**
	Layer 3	n/a

- Gypframe SIF Floor Screws installed through flooring, Gyproc Plank and edge flanges of Gypframe SIF Channels, not directly into timber joists.
- All underside board joints installed staggered in accordance with Gyproc's current installation recommendations.
- Joints in underside face layer boards treated in accordance with **Gyproc Paper Joint Tape** method.
- Gyproc DryWall screws installed at maximum 230mm centres.
- Gyproc DryWall screws must maintain a minimum 10mm penetration through Gypframe metal framing.

Insulation components

Insulation specification required above ceiling:	**100mm Isover Modular Roll** laid between joists

Finishing

2mm **Gyproc Skimcoat** plaster (or **Carlite Finish**) applied in accordance with Gyproc's current recommendations.

Or

1 coat of **Gyproc Drywall Primer** prior to direct decoration (applied as soon as possible after board fixing is completed.

Qualifications

All materials unless otherwise indicated shall be supplied by Gyproc, and shall be installed in accordance with their current published instructions and generally in accordance with all relevant Standards. Systems installed in full accordance with Gyproc's recommendations comprising of genuine Gyproc and Isover branded components qualify for the SpecSure lifetime system warranty.

Health & Safety

Ensure that suitable personal protection is worn when handling Gyproc and Isover products/systems. All relevant Health and Safety Legislation and Guidelines must be followed. The relevant Material Safety Data Sheets must be referred to prior to specifying, handling or installing Gyproc & Isover products and systems.

Installation

For full installation assistance refer to Gyproc Systems Solutions and Installation Guide literature which is available at www.gyproc.ie. Alternatively contact the Technical Service department at 1800

744480 (RoI) or 0845 3990159 (NI). Full specification, detailing and site support can be offered for your project specific requirements.

Manufacturer
Gyproc, Unit 4 Kilcarbery Business Park, Nangor Road, Dublin 22, Ireland