

Floor/ceiling — steel joists

Specification number	Performance	Specifications
GBSJA 45	STC 55 Rw 55 FRR 45/45/45	Lining 2 x 13mm GIB Fyreline® LB/NLB Load bearing IIC* 48–72

FLOOR FRAMING

Steel floor joists shall be a minimum 190mm deep C-section with 45mm flanges and a thickness of 1.55mm, spaced at no more than 600mm centres.

FLOORING

Flooring shall be nominal 20mm particle board or 20mm oriented strand board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer's specifications. Flooring sheet joints must have a tongue and groove jointer, or be formed over framing.

If 17mm thick structural plywood is selected as the flooring material, one of the following floor coverings must be installed to achieve the listed STC and Rw performance:

- 4mm cushion-back vinyl; or,
- Wooden strip flooring; or,
- Ceramic tile; or,
- 40oz cut pile carpet loose laid on 8mm foam underlay.

GIB QUIET CLIP® AND BATTENS

The GIB Quiet Clip® is fastened to the joists at a maximum of 1200mm centres and minimum 900mm centres to support the GIB® Rondo® metal ceiling battens. Fasten each clip to the joist with 3 x 30mm x 10g Drill-Point Wafer Head Screws. The battens are spaced at a maximum of 600mm. A perimeter channel or GIBFix® Angle is required around the perimeter of the ceiling.

CEILING LINING

2 layers of 13mm GIB Fyreline® fixed at right angles to the battens.

Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on battens and are offset between first and second layers. Sheet joints are touch fitted.

SOUND CONTROL INFILL

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the joists.

FASTENING THE LINING

Fasteners

Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres (both layers)

200mm centres along each batten and 100mm centres at butt end joints. Place fasteners 12mm from sheet edges.

WALL/CEILING JUNCTIONS

The internal angle between the ceiling and walls must be protected by GIB-Cove® adhered with GIB-Cove® Bond, or boxed corners (square stopped) filled and taped in accordance with the publication entitled GIB® Site Guide.

ACOUSTIC SEALANT

A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter. The outer lining is then bedded onto the bead.

JOINTING

All fastener heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.

*Impact Insulation Class (IIC)

A performance of IIC 48 is achieved by a bare floor.

A performance of IIC 51 is achieved with a floor covering of 4mm cushion-backed vinyl.

A performance of IIC 72 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

Note: See page 90 for perimeter details.

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