Floor/Ceiling - Steel Joists

March 2008

SPEC No.	LOAD BEARING CAPACITY CAPACITY	FIRE RESISTANCE RATING	LINING REQUIREMENTS	STC	IIC	SYSTEM WEIGHT APPROX
GBSJA 45	LB	45/45/45	2 Layers 13mm GIB Fyreline®	55	71	40kg/m2

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.

CEILING BATTEN AND DIRECT FIX CLIP SYSTEM

Direct fix clips are fastened to the joists at a maximum of 1200mm centres and minimum 900mm centres to support the GIB® Rondo® metal ceiling battens. The battens are spaced at a maximum of 600mm . A perimeter channel or 35mm x 35mm angle is required around the perimeter of the ceiling.

FLOORING

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

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

Ceiling overlaid with R1.8 Pink® Batts® Glasswool Insulation

FASTENING THE LINING

Fasteners
Inner layer
32mm x 6g GIB® Grabber® Scavenger Head Drill Point Drywall screws.
Outer layer
41mm x 6g GIB® Grabber® Scavenger Head Drill Point 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

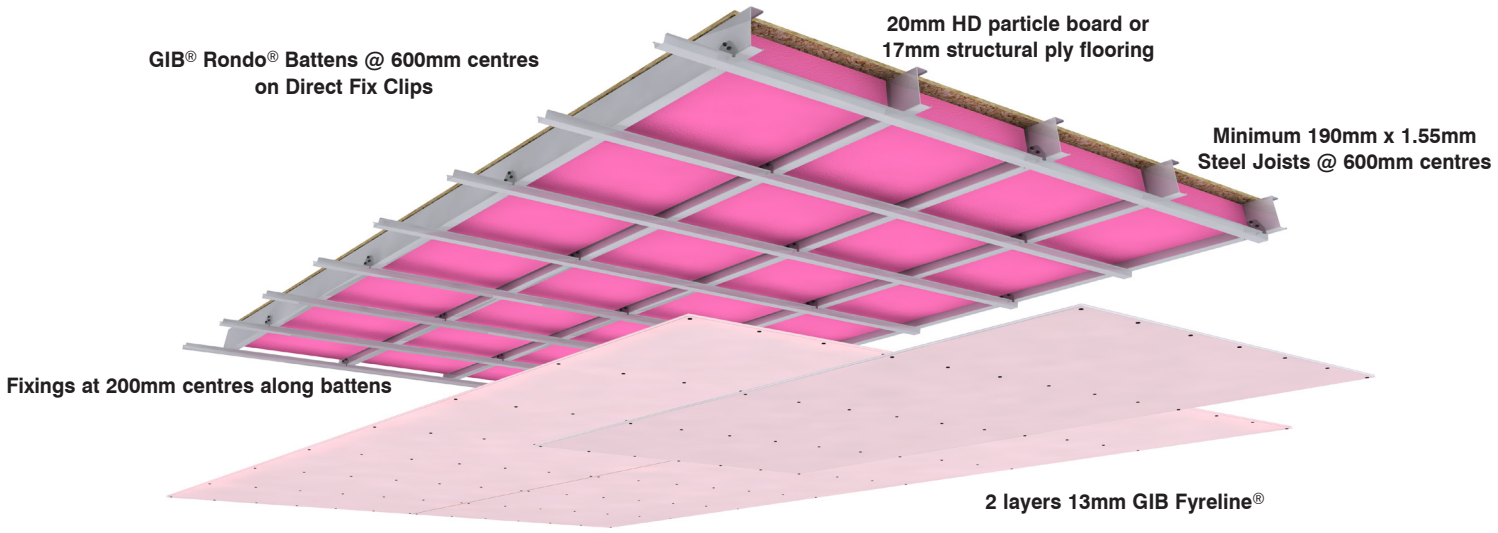
A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter. The outer lining is then bedded onto the bead

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

A performance of IIC 44 is achieved on bear floor
A performance of 71 is acheived with a 48 oz hard twist wool hessian backed capet over rubber waffle underlay



In order for GIB® systems to perform as tested, all components must be installed exactly as prescribed. Substituting components produces an entirely different system and may seriously compromise performance. Follow system specifications.