Floor/Ceiling – Timber Joists

MARCH 2006

SPEC No.	LOADBEARING CAPACITY	STC	RW	IIC	FIRE RESISTANCE RATING	LINING REQUIREMENTS
GBDFA 60b	LB	55	55	* 72	60/60/60	2 x 13mm GIB Fyreline®

FLOOR FRAMING

Floor joists shall comply with NZS 3604.
Joists shall be spaced at 600mm centres maximum and shall have a depth of 200mm minimum.
Alternative Floor Framing: Use either Hyspan® or Hybeam® HJ series joists designed for strength and serviceability, no less than 200mm deep and spaced at no more than 600mm. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

FLOORING

Minimum flooring shall be 20mm thick particle board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer's instructions. Nogs are required behind sheet joints. If tongue and groove flooring is used verification of performance must be obtained from the supplier of the flooring system.

CEILING BATTEN & DIRECT FIX CLIP SYSTEM

The clips shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling battens or the USG DONN® ScrewFix™ ceiling batten system. The battens shall be spaced at 600mm centres maximum.

SOUND CONTROL INFILL

Ceiling overlaid with R1.8 (75mm) Pink® Batts® glasswool insulation.

CEILING LINING

2 layers of 13mm GIB Fyreline® fixed at right angles to the steel battens. Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on the battens and are offset between the first and second layers. Sheet joints are touch fitted.

FASTENING THE LINING

Fasteners
INNER LAYER: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
OUTER LAYER: 41mm x 6g screws as above.
Fastener Centres (both layers)
200mm centres along each batten and at 100mm centres along sheet end butt joints. Place fasteners no closer than 12mm to the sheet edges.

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.

WALL/CEILING JUNCTIONS

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

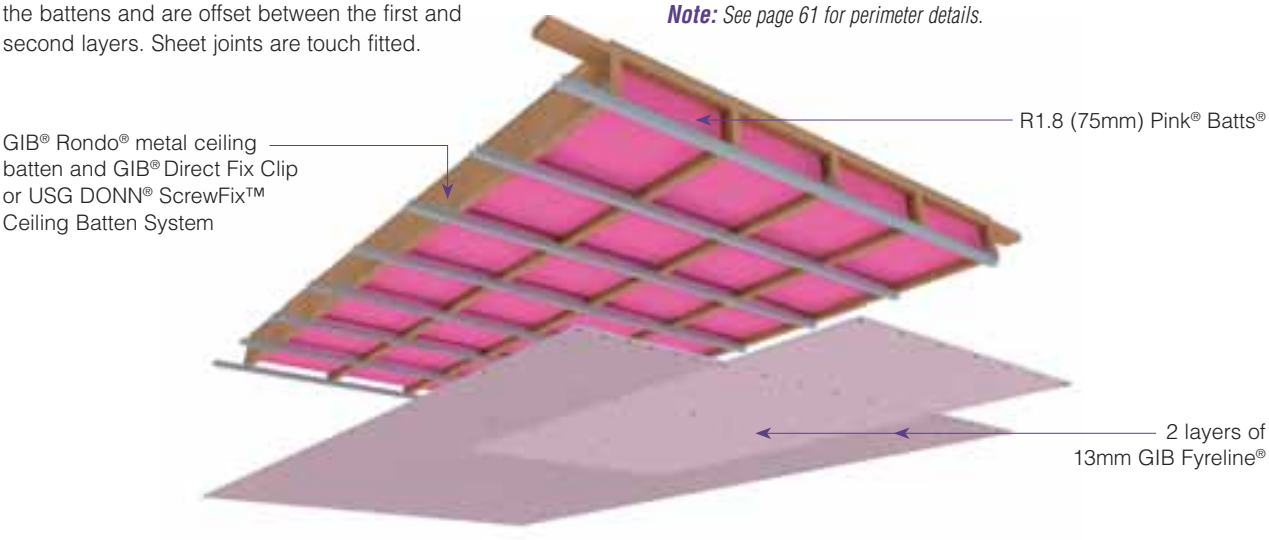
JOINTING

INNER LAYER: Unstopped.
OUTER LAYER: 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 46 is achieved by a bare floor.
A performance of IIC 50 is achieved with a cushion backed vinyl on particle board on structural plywood.
A performance of IIC 72 is achieved with a 48oz hard twist wool hessian backed carpet over a rubber waffle underlay.

Note: *See page 61 for perimeter details.*



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.