

POSI-STRUT INTER-TENANCY SYSTEMS

POSI-STRUT FLOOR TRUSSES - BATTEN AND CRADLE : JAMES HARDIE SECURA

PERFORMANCE		SPECIFICATIONS	
STC	65	Lining	2 x 13mm GIB Fyreline®
Rw	72	LB/NLB	Load bearing
FRR	60/60/60	IIC*	59

FLOOR FRAMING

Use Posi-STRUT™ engineered floor trusses designed for serviceability, not less than 217mm deep and spaced at 400mm centres maximum.

FLOORING

James Hardie Secura Interior Flooring fixed at right angles to the timber floor joists. Sheet edges other than tongue and groove must be supported by floor joists. Sheets must be laid in a staggered pattern. The minimum length for a cut sheet is 900mm. Apply a 6mm continuous bead of adhesive to joists prior to installation of sheets.

FASTENING THE FLOORING

ADHESIVE

- Bostik Seal 'n' Flex 1; or,
- Sika Sikaflex 11FC; or,
- Holdfast 220LM

FASTENERS

- 40mm x 10g wood thread self embedding screws; or,
- 50 x 2.87mm stainless steel ring RounDrive nails; or,
- 50 x 2.87mm Dekfast HD galvanised RounDrive nails

FASTENER CENTRES

200mm centres along each joist. Place fasteners no closer than 25mm to longitudinal sheet edges and 12mm from transverse sheet edges. Place fasteners no closer than 50mm to sheet corners

FLOATING FLOOR AND FLOORING VOID SOUND CONTROL INFILL

Space the James Hardie Acoustic Cradles at 450mm maximum centres on the bottom layer of James Hardie Secura Interior Flooring. The James Hardie Acoustic Cradles do not need to be aligned with the timber floor joists and are not to be fixed down to the bottom layer of James Hardie Secura Interior Flooring.

Place the James Hardie Acoustic Channels in the James Hardie Acoustic Cradles. Space James Hardie Acoustic Channels at 450mm maximum centres.

Place 50mm thick sound control infill between James Hardie Acoustic Channels. Minimum density 9.6 kg/m³. A suitable product is Pink® Batts® R1.2 (50mm) glass wool insulation.

James Hardie Secura Interior Flooring fixed at right angles to the James Hardie Acoustic Channels. Sheet edges other than tongue and groove must be supported by channels. Sheets must be laid in a staggered pattern. The minimum length for a cut sheet is 900mm. Ensure the sheets are laid the correct way down depending on the final finish i.e. tiles or vinyl. Apply a 6mm continuous bead of adhesive to channels prior to installation of sheets.

Allow a 5mm minimum gap where sheet edges butt into external/ internal walls. Fill gap with GIB Fire Soundseal® acoustic sealant.

In designated wet areas there is a need to seal the sheet joints and apply a waterproof membrane. If tiles are to be applied as a final finish there may be a requirement to form one or more control joints.

GIB QUIET CLIP® AND BATTENS

The GIB Quiet Clip® shall be fastened to the joists at maximum 1200mm centres (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling battens.

INSTALLING THE GIB QUIET CLIP®

Use 3 x 32mm x 8g GIB® Grabber® Self Tapping Wafer Head Screws. Insert the first screw into the middle rubber grommet, tighten enough to hold the GIB Quiet Clip® in place, adjust the clip to the correct height, insert the remaining two screws and tighten. Do not overtighten the screws to the point where the grommet is crushed. The screws should be tightened enough to allow the flexibility to remain in the connection between the grommet and the timber joists.

CEILING VOID SOUND CONTROL INFILL

Place minimum 75mm thick sound control infill on top of the GIB® Rondo® metal ceiling battens. Minimum density 9.6 kg/m³. A suitable product is Pink® Batts® BIB R1.8 (75mm) glass wool 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 GIB® Grabber® Self Tapping Drywall Screws.

FASTENER CENTRES (BOTH LAYERS)

Place fasteners 12mm from longitudinal sheet edges and 18mm from sheet ends. This distance may be reduced to 12mm from sheet ends at butt joints on battens.

Place fasteners at 200mm centres around ceiling perimeter, along each intermediate framing member and where sheet end butt joints occur.

ACOUSTIC SEALANT

GIB Fire Soundseal® acoustic sealant is required on the inner lining to create seal around the ceiling perimeter.

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WALL/CEILING JUNCTIONS

The internal angle between the ceiling and walls are finished with GIB-Cove® adhered with GIB-Cove® Bond, or square stopped in accordance with the publication entitled GIB® Site Guide or timber scotia.

JOINTING

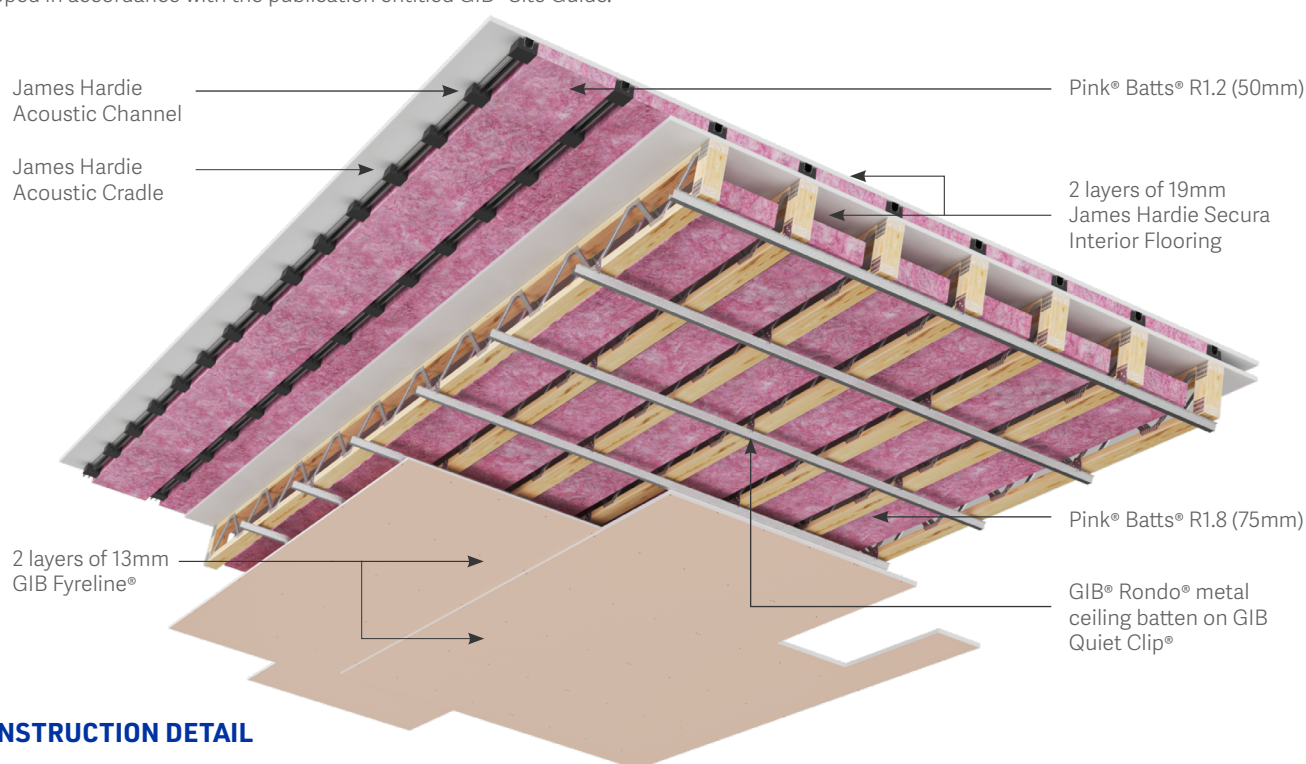
All fastener heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.

SUPPLEMENTARY MATERIAL

For additional information covering general and wet area installations of James Hardie Secura Interior Flooring, refer to the James Hardie Secura Interior Flooring Installation Manual.

*IMPACT INSULATION CLASS (IIC)

A performance of IIC59 is achieved with a bare floor.



CONSTRUCTION DETAIL

