

**GIB** Composite Joists JANUARY 2006

SPECIFICATION NUMBER	LOADBEARING CAPACITY	FIRE RESISTANCE RATING	LINING REQUIREMENTS	STC	IIC	SYSTEM WEIGHT APPROX
GBCJ 45	LB	45/45/45	1 layer 13mm GIB Fyreline®	39	32	40kg/m <sup>2</sup>

**FLOOR FRAMING**

Floor joists may be either Hyspan® or Hybeam® HJ series joists<sup>1</sup>. Joists shall be covered by specific engineering design for strength and serviceability, have a depth no less than 200mm and spacing no more than 600mm. Nogs fixed on the flat to receive the ends of flooring material shall be 100 x 50mm minimum. Nogs fixed on the flat to receive GIB® linings shall be 75 x 50mm minimum spaced at 600mm for joists at 600mm, or at 1200mm for joists at 400 or 450mm. Nogs/framing is required at the perimeter of the fire rated ceiling. Consult the beam manufacturer re construction of the solid blocking contained in floor/ceiling to wall junctions.

**FLOORING**

Minimum flooring shall be nominal 20mm thick particle board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturers' specifications.

**Note:** If tongue and groove sheet flooring is used, verification of performance must be obtained from the supplier of the flooring system.

**CEILING LINING**

1 layer of 13mm GIB Fyreline® shall be fixed at right angles to the underside of the floor joists. All joints must occur on joists or nogs. Sheets shall be touch fitted.

**FASTENING THE LINING**

**Fasteners**  
51mm x 7g GIB® Grabber® High Thread Drywall Screws.  
**Fastener Centres**  
150mm centres around the perimeter of each sheet. Single screws at 200mm centres along each joist and at the centre of each nog.  
Place fasteners 12mm from sheet edges.

**WALL/CEILING JUNCTIONS**

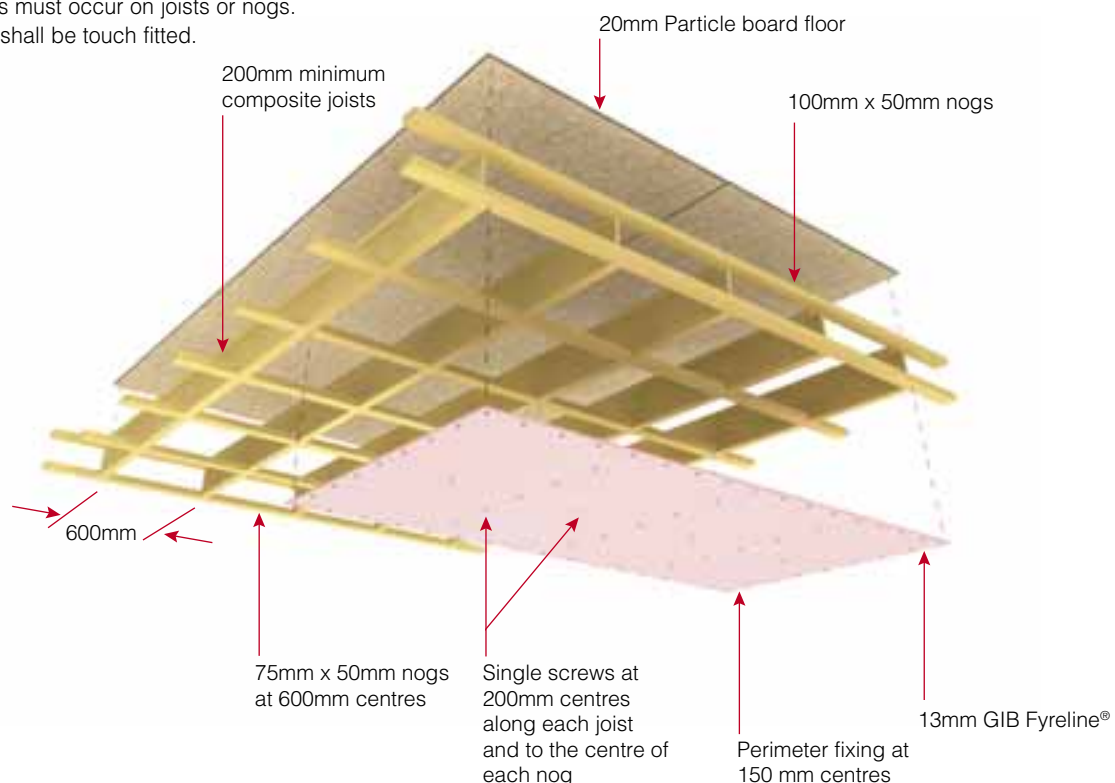
The internal angle between the ceiling and walls must be protected by GIB-Cove® adhered with GIB-Cove® Bond, or boxed corners (square stopped) filled and taped in accordance with the publication entitled "GIB® Site Guide".

**JOINTING**

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

<sup>1</sup> Hyspan® or Hybeam® HJ series joists are manufactured and supplied by Carter Holt Harvey Futurebuild, 0800 808 131. The following alternatives are available. Please check with the supplier for construction details and independent verification.

- Posi Strut® joists – Mitek Group, (09) 274 7109
- Twinaplate® joists – Twinaplate® NZ, (09) 813 4007



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.