

Timber joist

Specification number	Performance	Specifications
GBFC 45	FRR 45/45/45 STC 39 Rw 40 IIC 32	Lining 1 layer 13mm GIB Fyreline® LB/NLB Loadbearing

FLOOR FRAMING

Floor joists must comply with NZS 3604 and be a minimum of 190mm x 45mm or 140mm x 45mm when using the ceiling batten alternative. Joists are spaced at 600mm maximum. Solid strutting is required in accordance with NZS 3604.

Nogs fixed on the flat to receive the ends of flooring material shall be 90mm x 45mm minimum.

Nogs fixed on the flat to receive GIB® linings shall be 70mm x 45mm minimum spaced at 600mm for joists at 600mm, or at 1200mm for joists at 400mm or 450mm.

Nogs/framing is required at the perimeter of the fire rated ceiling.

FLOORING

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

Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

CEILING LINING

1 layer of 13mm GIB Fyreline® shall be fixed at right angles to the underside of the floor joists.

All sheet joints must occur on joists, solid strutting or nogs.

Sheets shall be touch fitted.

FASTENING THE LINING

Fasteners

51mm x 7g GIB® Grabber® High Thread Drywall Screws.

Fastener centres

Place fasteners at 150mm centres around the perimeter of each sheet and at 200mm centres along each joist and at the centre of each nog.

Place fasteners 12mm from longitudinal sheet edges and 18mm from sheet ends.

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, or sealed and protected by timber scotia 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".

CEILING BATTEN ALTERNATIVE

Where NZS 3604 permits 140mm joists, these may be used with continuous 70mm x 45mm ceiling battens at 600mm centres, running across the joists (battens may also be used to level the ceiling in renovation work). Linings are installed perpendicular to the battens.

When joists are spaced at 600mm, 45mm x 45mm blocking between the ceiling battens is required under all joists.

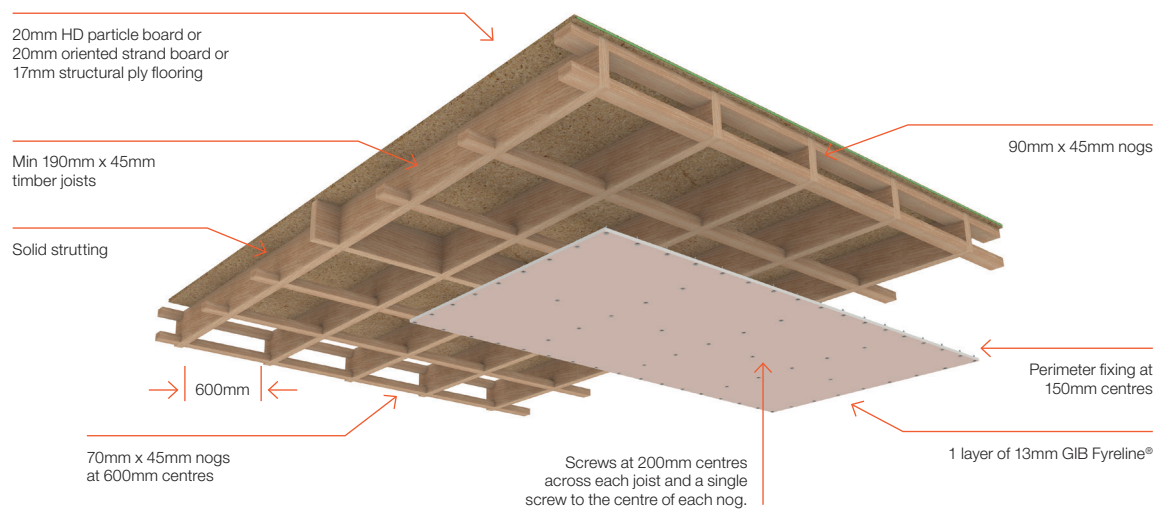
When joists are spaced at 400mm, blocking on joists is required behind longitudinal sheet joints at 1200mm centres only.

When joists are spaced at 450mm, blocking is required between the battens at 600mm centres to support the board centre and behind longitudinal sheet joints. When battens are spaced at 450mm or less, blocking only needs to be installed behind longitudinal sheet joint.

Nogs/framing is required at the perimeter of the fire rated ceiling.

Timber joist

Specification number	Performance	Specifications
GBFC 45	FRR 45/45/45	Lining 1 layer 13mm GIB Fyrelite®
	STC 39	LB/NLB Loadbearing
	Rw 40	
	IIC 32	



Ceiling batten alternative

