

Steel joist

Specification number	Performance	Specifications
GBSJ 60	FRR 60/60/60	Lining 1 layer 16mm GIB Fyreline® LB/NLB Load bearing
	STC 39	
	Rw 39	
	IIC 32	

FLOOR FRAMING

The steel floor structure shall be specifically designed and have minimum 190mm-deep C-section joists with 45mm flanges and a thickness of 1.55mm, spaced at no more than 600mm centres.

Framing is required at the perimeter of the ceiling lining and at longitudinal sheet joints. Suitable perimeter framing includes a minimum 35mm x 35mm x 0.55mm steel perimeter angle or steel noggs.

Longitudinal sheet joints are supported on 0.55mm-thick C-section steel noggs connected to the joists. The noggs have a minimum width of 50mm with 25mm vertical legs.

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.

Flooring sheet joints without a jointer must have a bead of GIB Fire Soundseal® applied before sheets are locked together. Where tongue and groove jointers or sealant are not used, the fire rating will reduce to 60/60/45.

CEILING LINING

1 layer of 16mm GIB Fyreline® fixed at right angles to the underside of the floor joists.

All sheet joists must occur on joists or noggs.

Sheets shall be touch fitted.

FASTENING THE LINING

Fasteners

32mm x 8g GIB® Grabber® Drill Point Fine Thread Screws.

Fastener centres

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

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 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".

