Two Way FRR – Steel Frame with GIB Rail®

MARCH 2006

SPEC No.	LOADBEARING CAPACITY	STC	RW	FIRE RESISTANCE RATING	LINING REQUIREMENTS
GBSA 90r	NLB	57	56	-/90/90	2 x 13mm GIB Fyreline® each side

FRAMING

Steel stud dimensions 64 x 34 x 0.55mm nominal with 6mm return and placed in 64 x 30 x 0.55mm nominal steel channel. Channel is fixed to floor and ceiling. Studs are "friction fitted" at 600mm centres maximum with a 15mm expansion gap at the top of the frame. No fixings to the top channel.
Recommended maximum wall height is 2700mm.
For higher walls consult the framing manufacturer.

Note: *If 0.5mm BMT steel studs are used, verification of performance must be obtained from the supplier of the framing system.*

SOUND CONTROL INFILL

R1.8 (75mm) Pink® Batts® glasswool insulation installed between the studs.

FASTENING THE GIB RAIL®

The rail shall be fixed horizontally at 600mm centres using 32mm x 8g GIB® Grabber® Wafer Head Self Tapping Screws through the base flange into each stud. The base flange shall point downwards and the open edge upwards.
The top rail shall be fastened with its upper edge below the top channel but no more than 75mm below the ceiling line. The bottom rail 50mm from the floor line. The bottom rail only may be fixed with its base flange up or down for ease of attachment.
Splice rails directly over the studs by nestling (not butting) with no more than a 20mm overlap. Drive the fastener through both flanges into the stud.

LINING

2 layers of 13mm GIB Fyreline® fixed vertically each side of the frame. Vertical joints of the outer layer are offset 600mm from those of the inner layer. Use full height sheets where possible. Sheet joints are touch fitted and must occur over studs on the framing side. Where sheet end joints are unavoidable they must be over nogs and the outer layer offset from those on the inner layer.

ACOUSTIC SEALANT

A bead of GIB Soundseal® acoustic sealant is required around the perimeter of the inner lining, the outer lining is then bedded onto the bead.

FASTENING THE LINING

Framing Side

INNER LAYER: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

OUTER LAYER: 41mm x 6g screws as above.

GIB Rail® Side

INNER LAYER: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

OUTER LAYER: 41mm x 6g screws as above.

Fastener Centres

Fixings at 300mm centres to each stud and along each rail. Place fasteners 12mm from sheet edges generally and 50mm from sheet ends.

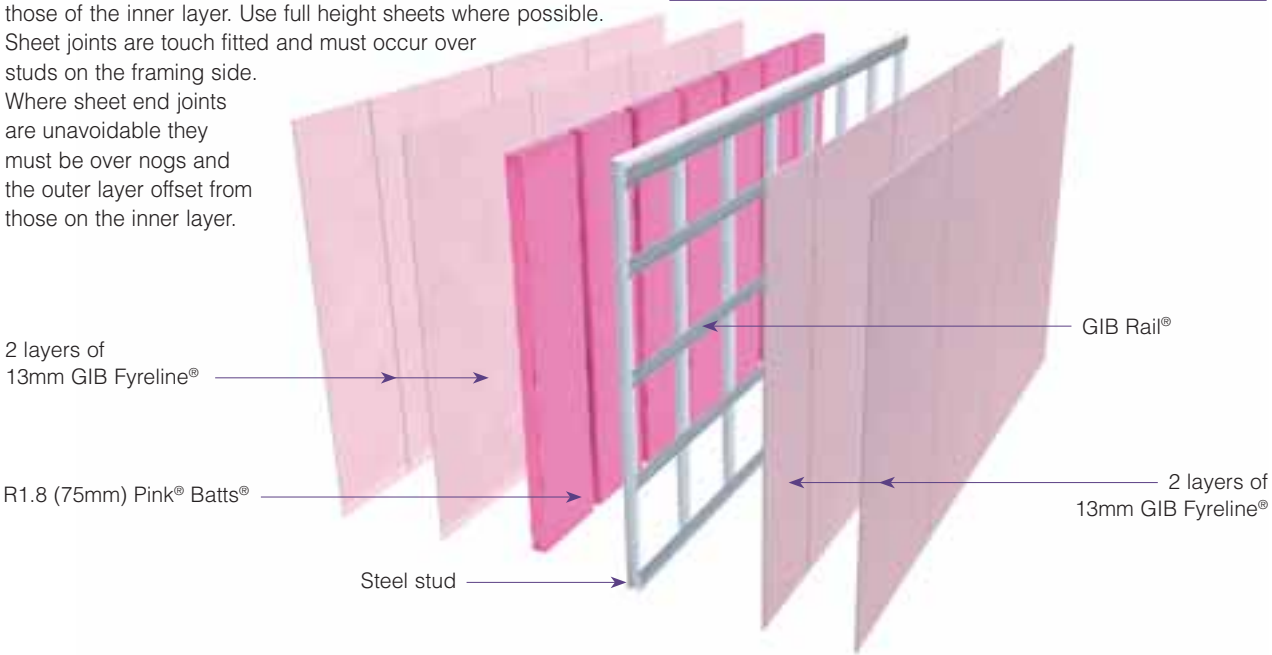
Important: When fastening the lining through the GIB Rail®, set the screws to the side of the studs. The screws must not touch or penetrate the framing.

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". Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with GIB-Cove®.

STUD SIZE	SPACE BETWEEN FRAMES	PARTITION WIDTH
64 x 34 x 0.55mm	N/A	128mm



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.