Two Way FRR – Double Steel Frame

MARCH 2006

SPEC No.	LOADBEARING CAPACITY	STC	RW	FIRE RESISTANCE RATING	LINING REQUIREMENTS
GBSA 45	NLB	60	59	-/45/45	2 x 13mm GIB® Standard Plasterboard each side

FRAMING

Steel stud dimensions to be 64 x 34 x 0.55mm nominal with 6mm return and place 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 15mm expansion gap at the top of the frame. No fixings to the top channel.

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

WALL HEIGHTS

Recommended maximum wall height is 2700mm.
For higher walls consult the framing manufacturer.

SOUND CONTROL INFILL

R1.8 (75mm) Pink® Batts® glasswool insulation installed between the studs on one side of the double frame.

LINING

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

Fasteners

INNER LAYER: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
OUTER LAYER: 41mm x 6g screws as above.

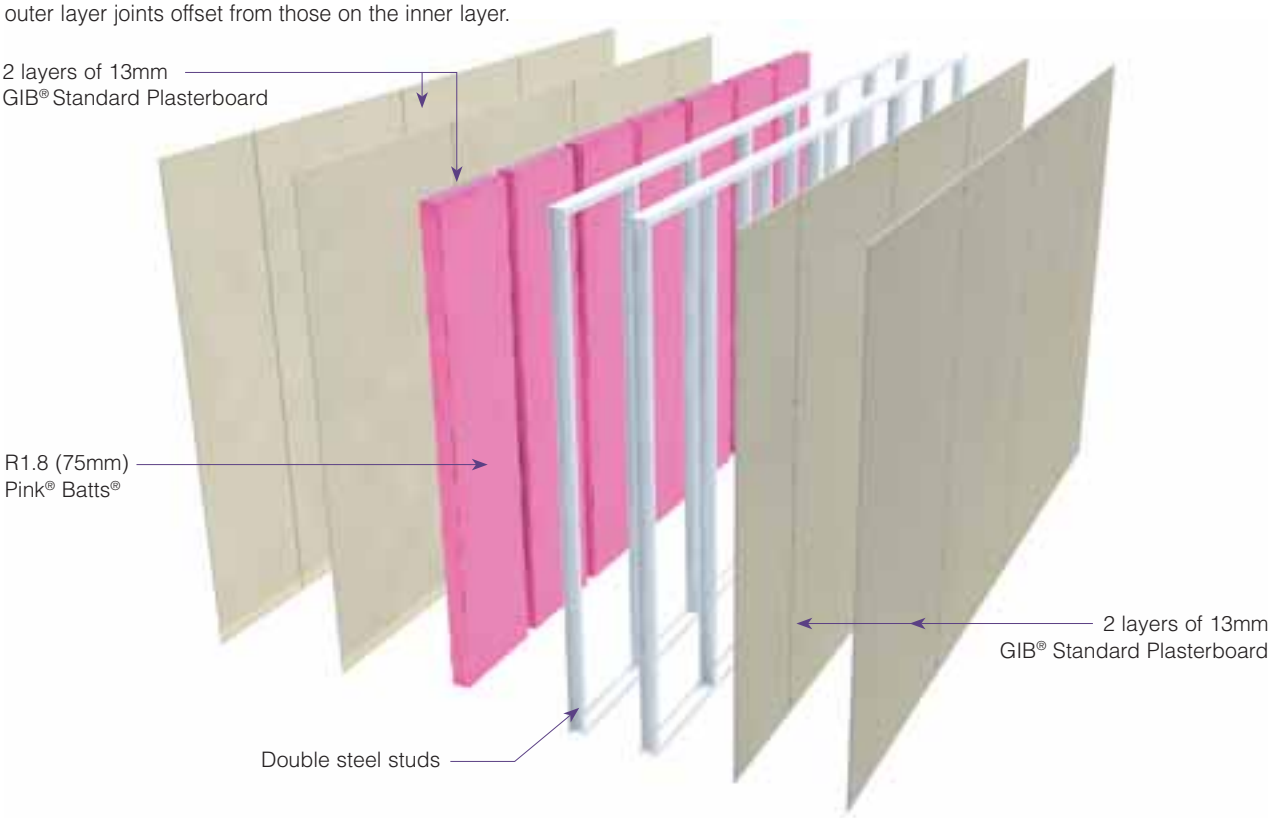
Fastener Centres

INNER and OUTER LAYER: 300mm centres up each stud.
Place fasteners 12mm from sheet edges generally and 50mm from sheet ends.

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	25mm min	203mm



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.