Two Way FRR – Timber Frame with Acoustic Resilient Mount

MARCH 2006

SPEC No.	LOADBEARING CAPACITY	STC	RW	FIRE RESISTANCE RATING	LINING REQUIREMENTS
GBT(L)IC 60a	LB	58	57	(60)/60/60	Framing side 1 x 13mm GIB Noiseline® Furring Channel side 2 x 13mm GIB Noiseline®

FRAMING

Framing to comply with:

- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603)
- NZBC B2 – Durability: AS1 Clause 3.2 – Timber (NZ 3602)
- Studs at 600mm centres maximum
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for loadbearing walls.

SOUND CONTROL INFILL

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

ACOUSTIC RESILIENT MOUNT (ST-001)

The ST-001 clip is placed at 600mm centres vertically and fixed every second stud using a single 63mm x 8g self tapping screw. When adjusting the clip for depth, 3mm of rubber must remain between the underside of the steel spacerhead and the furring channel.

The furring channels must be either USG FC37 or Rondo® 308. Furring channels are clipped horizontally into the ST-001 clips. Joints must be made as close as possible to the ST-001 clips.

LINING

Framing side 1 layer of 13mm GIB Noiseline®.

Furring channel side 2 layers of 13mm GIB Noiseline® fixed vertically. 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 timber on the framing side. 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 frame or lining, the outer lining is then bedded onto the bead.

FASTENING THE LINING

Furring Channel Side

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

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

Framing Side

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

Fastener Centres

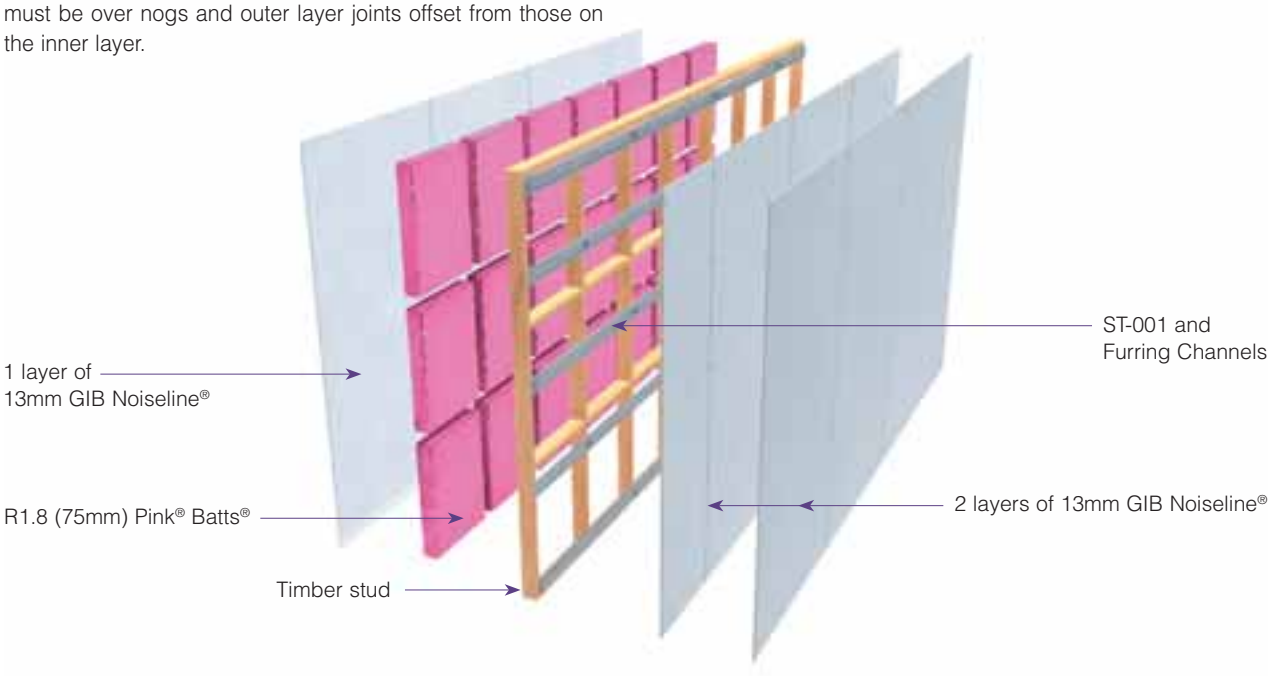
Fixings at 300mm centres to each stud and plate, and along the furring channel. Place fasteners 12mm from sheet edges.

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
90mm	N/A	169-174mm



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.