

**GIB®** Two Way FRR – Timber Frame with GIB Rail® MARCH 2006

| SPEC No.    | LOADBEARING CAPACITY | STC | RW | FIRE RESISTANCE RATING | LINING REQUIREMENTS                           |
|-------------|----------------------|-----|----|------------------------|---|
| GBT(L)A 45r | LB                   | 55  | 54 | (45)/45/45             | 2 x 13mm GIB® Standard Plasterboard each side |

**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.

**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 plate 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® Standard Plasterboard 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 timber on the framing side. Where sheet end joints are unavoidable they must be over nogs or rail 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**

**Framing Side**

INNER LAYER: 41mm x 6g GIB® Grabber® High Thread Drywall Screws or 40mm x 2.8mm GIB® Nails.

OUTER LAYER: 51mm x 7g 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.

**Fastening Centres**

Fixings at 300mm centres to each stud and plate, and along each rail. Place fasteners no closer than 12mm to the sheet edge.

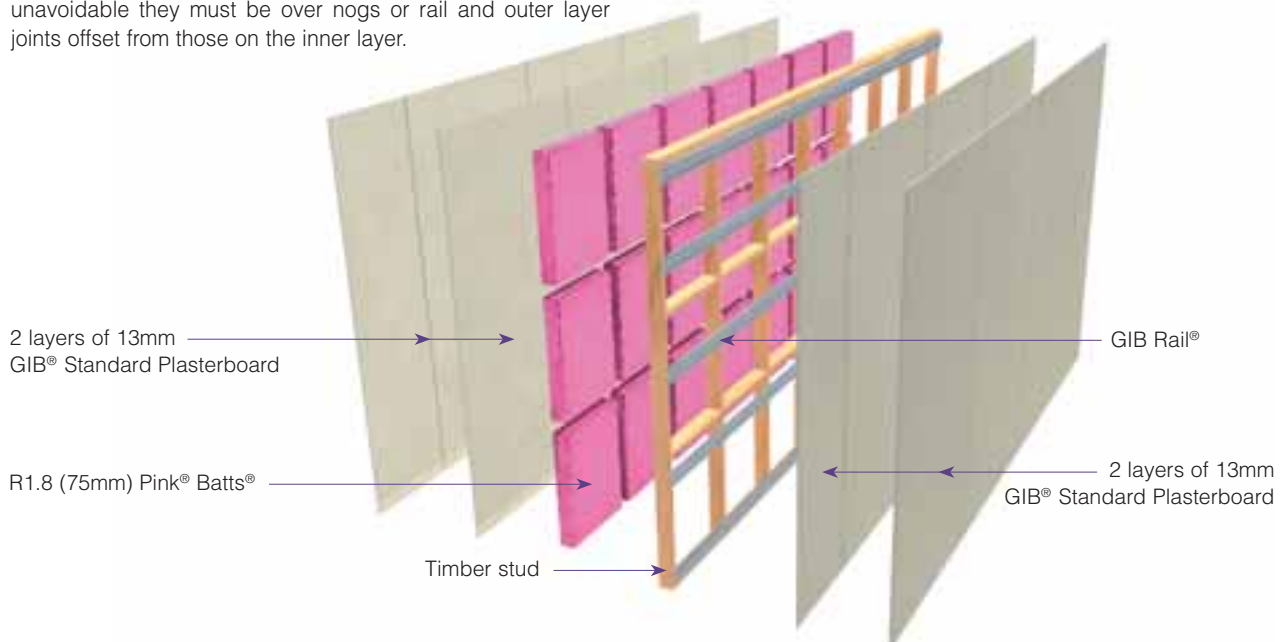
**Important:** When fastening the lining through the GIB Rail®, set the screws to the side of the studs. The screws must not touch or penetrate the framing.

**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 |
|-----------|----------------------|-----------------|
| 90mm      | N/A                  | 155mm           |



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.