NATIONAL SUPPORT

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The New Zealand Building Code sets out minimum standards for noise control between the habitable spaces of household units. But is Code Compliance enough? In today’s modern urban environment, people have higher expectations and often demand better protection from noise.

People now rate noise as an important consideration in selecting systems for homes, schools, the workplace and especially in high density and mixed land use areas.

Research shows that many apartment and townhouse owners can be dissatisfied with the level of noise control in their units, even though they meet the code.

Providing above-code noise control in a quality development should have a significant positive effect on value, rental fees, return on investment and resale potential. However, it is important to manage owner/occupant expectations. Noise control does not mean silence and there is no such thing as ‘sound proofing’.

This technical document provides noise control systems for designers, specifiers and builders. This information can be used during the building design process to help select systems to achieve the desired level of acoustic comfort.

GIB Noise Control® Systems have been independently tested and evaluated and can be depended on to perform. They represent the best in cost-effective noise control systems.
# Systems Summary Table

## Noise Control Systems – Intercensally

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<thead>
<tr>
<th>Specification number</th>
<th>LB/NLB</th>
<th>STC</th>
<th>Rw</th>
<th>FRR</th>
<th>Lining requirements</th>
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1 x 13mm GIB® Standard Plasterboard other side | | 26   |
| GBSAB 60c            | NLB    | 68  | 66  | ~/60/60 | 1 x 13mm GIB Braceine®/GIB Noiseline® each side | | 28   |
| **Staggered stud steel frame walls – with 13mm GIB Fyreline® central barrier** |        |     |     |     |                     |        |      |
| GBSAB 60d            | NLB    | 56  | 56  | ~/60/60 | 1 x 13mm GIB Fyreline® and  
1 x 13mm GIB® Standard Plasterboard each side | | 30   |
| GBSAB 60e            | NLB    | 57  | 58  | ~/60/60 | 1 x 13mm GIB Fyreline® and  
1 x 13mm GIB® Standard Plasterboard each side | | 32   |
| **Double timber frame walls** |        |     |     |     |                     |        |      |
| GBTLA 30a            | LB     | 58  | 57  | 30/30/30 | 2 x 10mm GIB® Standard Plasterboard each side | | 34   |
| GBTLA 30b            | LB     | 58  | 57  | 30/30/30 | 2 x 10mm GIB Braceine®/GIB Noiseline® one side  
1 x 10mm GIB Braceine®/GIB Noiseline® other side | | 35   |
| GBTLA 60             | LB     | 60  | 59  | 60/60/60 | 2 x 10mm GIB Fyreline® each side | | 36   |
| GBTLA 90c            | LB     | 63  | 62  | 90/90/90 | 2 x 13mm GIB Fyreline® each side | | 37   |
| GBTLA 90d            | LB     | 67  | 66  | 90/90/90 | 2 x 13mm GIB Braceine®/GIB Noiseline® each side | | 38   |
| **Double steel frame walls** |        |     |     |     |                     |        |      |
| GBSA 30b             | NLB    | 55  | 56  | ~/30/30 | 1 x 13mm GIB® Standard Plasterboard one side  
2 x 13mm GIB® Standard Plasterboard other side | | 39   |
| GBSA 60c             | NLB    | 59  | 58  | ~/60/60 | 1 x 13mm GIB Fyreline® one side  
2 x 10mm GIB Braceine®/GIB Noiseline® other side | | 40   |
<p>| GBSA 45              | NLB    | 60  | 59  | ~/45/45 | 2 x 13mm GIB® Standard Plasterboard each side | | 41   |</p>
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### SYSTEMS SUMMARY TABLE

#### Noise control systems – intertenancy

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* refer to system specification sheet for range of floor covering dependent IIC performance levels.

#### Noise control systems – sub-intertenancy

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Noise control systems – sub-intertenancy

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**Single timber frame sub-intertenancy systems**

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* refer to system specification sheet for range of floor covering dependent IIC performance levels.
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**SPECIFICATION REFERENCE**

The specification reference allows a quick and precise reference to a particular system.

**SCOPE OF USE**

GIB Noise Control® Systems are designed to provide noise control solutions for vertical and horizontal building elements. The systems offered include both NZBC compliant, and discretionary levels of performance. The penetration and junction details in this manual are meant to assist specifiers and builders when designing and constructing buildings that incorporate GIB Noise Control® Systems.

**CUSTOMISED DESIGN SOLUTIONS**

The systems detailed in this book should cover most common situations where noise control is required. However, for projects where specific performance is necessary, GIB® Technical Services can assist you to develop customised noise control solutions. Simply contact us through the GIB® Helpline on 0800 100 442.

**BEWARE OF SUBSTITUTION**

The performance of noise control systems is very sensitive to design detailing and construction practices. All GIB Noise Control® Systems have been developed specifically for New Zealand conditions and independently tested or assessed to ensure the required level of performance is achieved. Therefore, it is important to use only GIB® branded components where specified and closely follow the specified design details and construction practices, to ensure the required level of noise control is achieved on site.

For further information on substitution please refer to the GIB® Product and System Warranty document that can be found on our website.

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**COMPLIANCE WITH THE NZ BUILDING CODE**

**NZBC Clause B1 — Structure**

The design and material specification for framing used in conjunction with this manual must be in accordance with the performance requirements for NZBC Clause B1. NZS 3604:2011 is a Compliance Document to NZBC Clause B1.

**NZBC Clause B2 — Durability**

Under normal conditions of dry internal use the products detailed in GIB Noise Control® Systems have a service life in excess of 50 years and satisfy the requirements of NZBC Clause B2.

**NZBC Clauses C1–C6 — Protection from Fire**

GIB Noise Control® Systems can be used to provide passive fire protection in accordance with the requirements of NZBC Clause C1-C6 – Protection from Fire.

**NZBC Clause F2 — Hazardous Building Materials**

Under normal conditions of use and serviceable life, the products detailed in GIB Noise Control® Systems do not constitute a health hazard and meet the provisions of the NZBC Clause F2.

**NZBC Clause G6 — Airborne and Impact Sound**

GIB Noise Control® Systems that appear in the Intertenancy section of this literature provide airborne and impact noise control ratings that meet or exceed the minimum requirements for NZBC Clause G6 - Airborne and Impact Sound.

**REQUIREMENTS OF NZBC CLAUSE G6**

The minimum requirements in NZBC Clause G6 between occupancies to ‘prevent undue noise transmission from other occupancies or common spaces to household units’ are:

- Sound Transmission Class (STC) for walls, floors and ceilings of no less than 55.
- Impact Insulation Class (IIC) for floors of no less than 55.

In this literature, systems that are designed to achieve compliance with this requirement are called ‘Intertenancy’ systems. Those that are suitable for non-building code applications i.e. partitions within the same tenancy, are call ‘Sub-Intertenancy’ systems.
SUSTAINABILITY AND THE ENVIRONMENT
Winstone Wallboards is committed to protecting the environment. Environmental matters are integrated into all business activities:
— Our operations strive to exceed all environmental regulatory requirements at all times.
— Protection of the environment is a day-to-day responsibility that we must all accept.
— We allocate appropriate management time and resources to address relevant environmental issues and continuously improve our activities in that area.
— We will achieve our standards of performance through positive action, employee involvement and constant communication with our neighbours, local authorities and customers.

Minimise on-site waste when designing and/or installing GIB® Systems. For larger projects give consideration to our cut-to-length service to reduce waste. GIB® plasterboard off-cuts, if separated from other waste building materials, can be readily recycled. For larger projects, waste can be diverted to compost manufacturers who grind up the GIB® plasterboard and use it in compost. For smaller projects, GIB® plasterboard can be ground up and spread around the building site.

GLOBAL GREENTAGCERT™
The Global GreenTagCert™ certified eco-label acknowledges product as meeting the GreenRate Standard set by Global GreenTagCert™.
Key GIB® plasterboard products are Green Tag Certified.

DECLARE CERTIFICATION
Declare is a database of non-toxic, sustainably sourced building products.
Many GIB® plasterboard products including GIB® Standard, GIB Braceline®/GIB Noiseline®, GIB Fyreline® and GIB Aqualine® have achieved Red List Free status in Declare certification.
For more information on Winstone Wallboards sustainability commitments visit gib.co.nz.

COMPATIBILITY WITH GIB EZYBRACE® SYSTEMS
GIB EzyBrace® Systems are compatible with all GIB Noise Control® Systems that incorporate one or more load bearing timber frames. The exceptions to this rule being GIB Noise Control® Systems that include GIB Rail® and acoustic resilient mounts. These systems are only partially compatible with GIB EzyBrace® Systems.

For GIB Noise Control® Systems with a double layer wall lining, the plasterboard bracing element sheets can be either:
— Applied directly to the framing with fasteners set out as per the bracing instructions and a fastener length as per the GIB Noise Control® System being installed. The inner layer can be left unstopped; or
— Applied to the outer sheets with the outer layer fasteners being installed as per the bracing instructions and fastener length as per the GIB Noise Control® System being installed.

The outer layer is to be taped and stopped as per the GIB® Site Guide.

WET AREA LININGS IN GIB NOISE CONTROL® SYSTEMS
If GIB® Standard or GIB Fyreline® is replaced with the equivalent thickness GIB Aqualine®, the FRR and STC ratings will be retained. If GIB Braceline®/GIB Noiseline® is replaced with the equivalent thickness GIB Aqualine®, the FRR will be retained but the STC rating can reduce as follows:

<table>
<thead>
<tr>
<th>Original specification</th>
<th>Replacement specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>10mm GIB Aqualine®</td>
<td>13mm GIB Aqualine®</td>
</tr>
<tr>
<td>single layer one side</td>
<td>single layer both sides</td>
</tr>
<tr>
<td>-2 STC</td>
<td>-4 STC</td>
</tr>
<tr>
<td>No loss</td>
<td>No loss</td>
</tr>
</tbody>
</table>

GIB Noise Control® Systems have been appraised by the Building Research Association of New Zealand (BRANZ), Appraisal No. 394 (2017) GIB Noise Control® Systems 2017.
It is of prime importance to comply with the details of design, construction and workmanship in this manual.
THE BUILDING ELEMENT
A system may be chosen once a Fire Resistance Rating (FRR) and the level of noise control (STC and/or IIC) have been determined. Factors to consider include:
- Footprint or depth — systems can have different total thickness affecting floor space or available height.
- Impact through walls — cupboards and doors on walls are impact sounds. These are best reduced by walls with acoustic isolation (e.g. double frames).

BUILDING CONNECTIONS
It is usually not sufficient to simply specify a building element. Also consider:
- Junction details: sound travels in all directions — sideways, diagonally, as well as up and down. Suitable junction details must be used to minimise flanking sound.
- Penetration details.
- Services (e.g. HVAC, lifts, plumbing).
- Doors and glazing.
- Where continuous timber flooring occurs performance of wall systems may be limited to less than FSTC 50.

SITE PERFORMANCE AND SOUND FLANKING PATHS
The systems tested in the laboratory are rated using STC or IIC. However, once a system has been installed, a 5 point relaxation is permitted for field testing (FSTC or FIIC). The NZBC requires that both the laboratory and field criteria are complied with.

Sound flanking paths via the surrounding structure must be avoided in order to achieve the published system performance. We recommend engaging a reputable acoustic engineer to provide design advice that will ensure robust on-site noise control performance.

Systems that are predicted to achieve marginal compliance with NZBC require a high degree of care, skill, and site supervision during installation, and should be installed by an experienced person. Flanking paths, such as floor and wall junctions, must also be robust to ensure they do not contribute to a sub-standard result.

Systems that incorporate a deflection head generally require a ceiling below to achieve full performance.

WHICH FRAMING SYSTEM TO CHOOSE?
This book contains a number of options for constructing intertenancy walls using timber or steel framing. These include single frames, single frames with resilient rail or acoustic resilient mount on one side, staggered studs, double frames and double frames with central barrier.

Although all systems achieved the published STC rating in a laboratory, a similar performance on site is often much harder to attain.
- Single stud systems may be used in situations where the wall is installed between concrete floors and where there are no intersecting walls, penetrations, or any fittings (e.g. kitchen joinery) connected to the wall. Minor deviations from the specification or inaccuracies in construction can result in a significant performance loss. Single stud systems are not generally recommended for intertenancy construction.
- Resilient single steel stud systems (GIB® Rondo® Quiet Stud®) are less prone to site variations.
- With resilient rail systems, extreme care must be taken not to bridge the gap between the linings and the framing on the resilient rail side. This can happen by accidentally screw fixing through the rail into the stud, the use of packers to connect joinery, mounting of electrical switch boxes, etc. Flanking paths can also be easily created at wall and floor ceiling junctions. Competent installation and supervision is required when constructing systems with GIB Rail®.
- Staggered stud, double frames and double frames with central barrier deliver by far the most reliable on-site performance and are generally recommended for intertenancy construction. When connections between the frames are required for fire stability or structural reasons, these must be designed with care. Structural connections, such as continuous timber flooring, can reduce the FSTC rating of double stud intertenancy walls.

FLOOR JOIST DEPTH
Some floor/ceiling systems were tested with floor joist depths of 190–240mm. The STC and IIC values of these systems will remain unchanged when the joists are reduced to 140mm deep.

APPLIANCES
Washing machines, wall–mounted driers and speaker boxes, TVs, and even some light switches, transmit sound vibration into the structure. It is easy for this structure-borne sound to then be transmitted to adjacent occupancies.

Following these simple rules will minimise the risk of noise problems:
- Do not mount appliances on intertenancy walls.
- Locate driers and the like on external walls or other non–critical walls. When positioned on the floor, place on resilient mountings.
- Do not mount TVs or speaker boxes on critical intertenancy walls or on partition walls within the unit that separate living areas, such as the lounge, from quiet zones such as a study or a bedroom.
- Never mount electrical outlets back-to-back. This rule does not apply to double frame central barrier systems.

CAVITY INFILL
GIB Noise Control® Systems are typically specified with Pink® Batts® glass wool insulation with a density of 9.6kg/m². When substitution of infill takes place, independent verification must be obtained to confirm that the noise control performance of the system will be maintained.

At time of installation care must be taken not to compress the infill because this may create an acoustic bridge between the wall linings. For example, this can be avoided by neatly slicing the infill material to fit around building services that may be present in the wall or ceiling cavity. Failure to do this may adversely affect the noise control performance of the system.
LOAD-BEARING STEEL STUD WALLS

Stud type and centres as well as allowable height for loadbearing steel frame systems are the subject of specific engineering design.

The noise control performance of loadbearing double stud systems, GIB Rail® systems, and acoustic resilient mount systems, is similar to the STC and Rw ratings published for the equivalent non-loadbearing steel frame specifications published in this technical literature.

The Fire Resistance Rating (FRR) of load-bearing steel frame systems can be obtained by referring to ‘GBS1’ specifications published in the latest issue of the ‘GIB® Fire Rated Systems’ literature, or by specific engineering design when the applied stud load at the time of a fire and the ambient capacity are known.

NON-LOAD-BEARING STEEL STUD WALLS

Steel stud framing sizes and wall heights for non-load-bearing studs in GIB Noise Control® Systems. Studs lined both sides. Follow the framing supplier’s nogging requirements.

Steel stud sizes and wall heights for non-load-bearing wall frames in GIB Noise Control® Systems depend on factors such as:

- Differential pressures and/or wall impact forces.
- Fire resistance requirements and associated thermal deformations, and
- Lining one or both sides of the frame, with associated connections, noggings, etc.

The following tables are a guide to maximum permitted wall height as a function of stud size and centres. The tables are intended for internal walls only and refer to GIB Noise Control® System specifications in this publication. Specific design is required for applications outside the basis for design of these tables.

The basis for design includes:

- Deflection limit at 0.25 kPa is sparv240 to a maximum of 30mm.
- P ultimate = 0.375 kPa.
- P serviceability = 0.250 kPa.
- Fire design considerations1.

Tiled walls may require a lower deflection limit.

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1 Fire design involves assessment of furnace test results and wall deflections as a function of thermal gradients, stud depth and wall height. These considerations often govern the design of fire rated steel stud wall assemblies. Results can thus be more conservative than standard framing tables published by steel stud manufacturers.

---

### TABLE 1: SINGLE STUDS LINED BOTH SIDES

Steel stud framing sizes and wall heights for non-load-bearing studs in GIB Noise Control® Systems. Studs lined both sides. Follow the framing supplier’s nogging requirements.

<table>
<thead>
<tr>
<th>Nominal stud dimensions (mm)</th>
<th>Minimum Base Metal Thickness** (BMT) (mm)</th>
<th>Stud centres (mm)</th>
<th>Maximum wall height (mm)</th>
<th>Expansion tolerance at top of studs (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34</td>
<td>0.50 or 0.55</td>
<td>600</td>
<td>3000</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3200</td>
<td>15</td>
</tr>
<tr>
<td>76 x 34</td>
<td>0.55</td>
<td>600</td>
<td>3200</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3800</td>
<td>20*</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>600</td>
<td>3600</td>
<td>20*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4200</td>
<td>20*</td>
</tr>
<tr>
<td>92 x 34</td>
<td>0.55</td>
<td>600</td>
<td>3800</td>
<td>20*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4200</td>
<td>20*</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>600</td>
<td>4200</td>
<td>20*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4800</td>
<td>25*</td>
</tr>
<tr>
<td>GIB® Rondo® Quiet Stud® 92 x 45</td>
<td>0.55</td>
<td>600</td>
<td>3800</td>
<td>20*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4200</td>
<td>20*</td>
</tr>
</tbody>
</table>

* use a minimum 50mm deep head channel.

** increasing the steel stud BMT to 0.75mm will lower the stated noise control performance of the following single stud specifications GSS132, GSS133, GSS134, GNS132, GNS133, GNS104 and GNS134.

Table 1 can be applied to single stud system specifications GBQSA45, GBQSA60a, GBQSA90, GBQSA30, GBQSA60, GSS132, GSS133, GSS134, GNS132, GNS133, GNS104 and GNS134.

---
### TABLE 2: DOUBLE STUDS, RESILIENT RAILS AND ACOUSTIC RESILIENT MOUNTS

Steel stud framing sizes and wall heights for non-load-bearing studs in GIB Noise Control® Systems. Studs lined one side. Follow the framing supplier’s nogging requirements.

<table>
<thead>
<tr>
<th>Nominal stud dimensions (mm)</th>
<th>Minimum Base Metal Thickness (BMT) (mm)</th>
<th>Stud centres (mm)</th>
<th>Maximum wall height (mm)</th>
<th>Expansion tolerance at top of studs (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34</td>
<td>0.50 or 0.55</td>
<td>600</td>
<td>2700</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3000</td>
<td>15</td>
</tr>
<tr>
<td>76 x 34</td>
<td>0.55</td>
<td>600</td>
<td>3200</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3600</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>600</td>
<td>3600</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4200</td>
<td>15</td>
</tr>
<tr>
<td>92 x 34</td>
<td>0.55</td>
<td>600</td>
<td>3600</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4200</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>600</td>
<td>4200</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>4800</td>
<td>15</td>
</tr>
</tbody>
</table>

* use a minimum 50mm deep head channel.

Table 2 can be applied to central barrier system specifications GBSA60a, GBSA60b and GBSA60c. Table 2 can also be applied to double stud system specifications GBSA30b, GBSA45, GBSA60c, GBSA90c, GBSA90d, and steel stud plus resilient rail and acoustic resilient mount system specifications GBSA 30r, GBSA60r, GBSA90r and GBSIC30a.

### TABLE 3: STAGGERED STUDS

Steel stud framing sizes and wall heights for non-load-bearing studs in GIB Noise Control® Systems. Staggered studs lined one side. No noggings.

Frame spacing indicates the stud centres supporting the linings on one face. The same stud spacing applies on the opposite side of the frame. When taking into account studs on both sides of the frame, the stud centres are half those indicated below.

<table>
<thead>
<tr>
<th>Nominal stud dimensions (mm)</th>
<th>Minimum Base Metal Thickness (BMT) (mm)</th>
<th>Stud centres (mm)</th>
<th>Maximum wall height (mm)</th>
<th>Expansion tolerance at top of studs (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34</td>
<td>0.50 or 0.55</td>
<td>600</td>
<td>2400</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>2700</td>
<td>15</td>
</tr>
<tr>
<td>76 x 34</td>
<td>0.55</td>
<td>600</td>
<td>2600</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>2900</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>600</td>
<td>3000</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3500</td>
<td>15</td>
</tr>
<tr>
<td>92 x 34</td>
<td>0.55</td>
<td>600</td>
<td>2700</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3100</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>600</td>
<td>3200</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>3700</td>
<td>15</td>
</tr>
</tbody>
</table>

* use a minimum 50mm deep head channel.

Table 3 can be applied to staggered stud system specifications GBSA30s and GBSA90s.
Two way FRR – double timber frame with GIB Barrierline® central barrier

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLAB 60a</td>
<td>STC 68</td>
<td>Lining</td>
</tr>
<tr>
<td></td>
<td>Rw 66</td>
<td>Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TIMBER FRAMING</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stud size</td>
<td>Space between frames</td>
<td></td>
</tr>
<tr>
<td>90mm</td>
<td>80–110mm</td>
<td></td>
</tr>
</tbody>
</table>

Framing to comply with:
- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603).

Maximum height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

<table>
<thead>
<tr>
<th>CENTRAL BARRIER</th>
<th></th>
<th></th>
</tr>
</thead>
</table>
- Allow a 25–40mm gap between each timber frame and the GIB Barrierline® central barrier.
- Fix GIB® Rondo® 140 Perimeter Channels to the concrete floor with steel fasteners at 600mm centres and no more than 50mm from channel ends using 3.5mm x 30mm or 4.0mm x 25mm concrete nails or 6mm x 40mm concrete anchors.
- A 5mm gap between GIB® Rondo® 140 Perimeter Channels will let any collected rain water escape.
- GIB® Rondo® 140 Perimeter Channel to be sealed to the floor slab on one side with fire/acoustic sealant.
- Install 25mm GIB Barrierline® into GIB® H-Studs at 600mm centres.
- Cap GIB Barrierline® ends with GIB® Rondo® 140 Perimeter Channel.
- Offset GIB® H-Studs at least 100mm from wall studs to allow attachment of GIB® Wall Clips to both frames. Nog as required where no framing exists.
- Place two GIB® Wall Clips (one each side) no more than 600mm below the top of each GIB® H-Stud, no further apart than 3000mm vertically.
- Fix GIB® Rondo® 140 Perimeter Channel at wall ends to both timber frames with GIB® Wall Clips or GIB® Wall Straps placed no further apart than 3000mm vertically.
- Use no more than two GIB® Wall Clips or GIB® Wall Straps (one each side) for each 3000mm length of GIB® H-Stud or GIB® Rondo® 140 Perimeter Channel.
- In the roof space, fix 16mm GIB Fyreline® to one side of the GIB Barrierline® with 40mm x 8g chipboard screws on a 400mm grid, and at no more than 100mm from sheet edges.
- Extend the 16mm GIB Fyreline® at least 200mm below ceiling level.
- Once erected, protect the GIB Barrierline® and GIB Fyreline® from rain. The use of suitable sheeting can avoid delays in allowing the board to dry before wall linings are installed.

SOUND CONTROL INFILL
Install Pink® Batts® R2.2 (90mm) glass wool insulation between the studs and nogs in both frames.

WALL LINING
2 layers of 10mm GIB® Standard each side.

Fix inner sheets vertically. Where sheet end butt joints are unavoidable they must be formed over framing. Use full height sheets where possible.

Outer layer sheets can be fixed vertically or horizontally. If fixed vertically, outer layer sheet joints must be offset 600mm from those of the inner layer. Use full height sheets where possible.

If the wall lining forms part of the structural bracing system, the inner layer lining type and fixings must comply with the published bracing system. Check requirements for specific bracing element hold-down connections.

FASTENING THE LINING

Fasteners
Inner layer: 32mm x 6g GIB® Grabber® High Thread Drywall Screws.
Outer layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.

Fastener centres
Fix inner layer sheets to each stud and plate with fasteners at 300mm centres. When fixing outer layer sheets vertically, offset sheet joints from the inner layer. Fix the perimeter of each outer layer sheet to the frame with fasteners at 300mm centres. Adhesive fix the outer layer to the inner layer with daubs of GIBFix® adhesive down the centre line at 300mm centres. Do not place GIBFix® adhesive at sheet edges or within 200mm of screw fixings.

If fixing outer layer sheets horizontally, fasteners to be placed at 300mm centres to top and bottom plates and perimeter studs. Install pairs of single fasteners to each stud where the horizontal joint crosses. Adhesive fix the outer layer to the inner layer with daubs of GIBFix® adhesive down the centre line at 300mm centres. Do not place GIBFix® adhesive at sheet edges or within 200mm of screw fixings.

Place screws no closer than 12mm from paperbound sheet edges and 18mm from any sheet end or cut edge.

BUILDING SERVICE PENETRATIONS

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with...
Two way FRR – double timber frame with GIB Barrierline® central barrier

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLAB 60a</td>
<td>STC 68</td>
<td>Lining: 2 x 10mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 66</td>
<td>LB/NLB: Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition: 300–330mm wide</td>
</tr>
</tbody>
</table>

6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.

**WET AREA WALL LINING**

If the outer layer of 10mm GIB® Standard Plasterboard wall lining is substituted with 10mm GIB Aqualine®, the FRR and noise control rating will be retained.

**JOINTING**

Central Barrier: Unstopped.

Inner layer wall lining: Unstopped.

Outer layer wall lining: 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®.

**SUPPLEMENTARY MATERIAL**

For additional information on this system refer to the GIB® Intertenancy Barrier Systems for Terrace Homes Specification and Installation Manual.
Two way FRR – double timber frame with GIB Barrierline® central barrier

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<tbody>
<tr>
<td>GBTLAB 60b</td>
<td>STC 64</td>
<td>Lining 1 x 10mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 63</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 280–310mm wide</td>
</tr>
</tbody>
</table>

**TIMBER FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>90mm</td>
<td>80–110mm</td>
</tr>
</tbody>
</table>

Framing to comply with:

- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603).

Maximum height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**CENTRAL BARRIER**

- Allow a 25–40mm gap between each timber frame and the GIB Barrierline® central barrier.
- Fix GIB® Rondo® 140 Perimeter Channels to the concrete floor with steel fasteners at 600mm centres and no more than 50mm from channel ends using 3.5mm x 30mm or 4.0mm x 25mm concrete nails or 6mm x 40mm concrete anchors.
- A 5mm gap between GIB® Rondo® 140 Perimeter Channels will let any collected rain water escape.
- GIB® Rondo® 140 Perimeter Channel to be sealed to the floor slab on one side with fire/acoustic sealant.
- Install 25mm GIB Barrierline® into GIB® H-Studs at 600mm centres.
- Cap GIB Barrierline® ends with GIB® Rondo® 140 Perimeter Channel.
- Offset GIB® H-Studs at least 100mm from wall studs to allow attachment of GIB® Wall Clips to both frames. Nog as required where no framing exists.
- Place two GIB® Wall Clips (one each side) no more than 600mm below the top of each GIB® H-Stud, no further apart than 3000mm vertically.
- Fix GIB® Rondo® 140 Perimeter Channel at wall ends to both timber frames with GIB® Wall Clips or GIB® Wall Straps placed no further apart than 3000mm vertically.
- Use no more than two GIB® Wall Clips or GIB® Wall Straps (one each side) for each 3000mm length of GIB® H-Stud or GIB® Rondo® 140 Perimeter Channel.
- In the roof space, fix 16mm GIB Fyreline® to one side of the GIB Barrierline® with 40mm x 8g chipboard screws on a 400mm grid, and at no more than 100mm from sheet edges.
- Extend the 16mm GIB Fyreline® at least 200mm below ceiling level.
- Once erected, protect the GIB Barrierline® and GIB Fyreline® from rain. The use of suitable sheeting can avoid delays in allowing the board to dry before wall linings are installed.

**SOUND CONTROL INFILL**

Install Pink® Batts® R2.2 (90mm) glass wool insulation between the studs and nogs in both frames.

**WALL LINING**

A single layer of 10mm GIB Braceline®/GIB Noiseline® fixed vertically or horizontally.

Use full height sheets where possible.

Sheet joints are touch fitted and must occur over framing.

Where sheet end butt joints are unavoidable they must be formed over framing.

If the wall lining forms part of the structural bracing system, the lining type and fixings must comply with the published bracing system. Check requirements for specific bracing element hold-down connections.

**FASTENING THE LINING**

Fasteners

32mm x 6g GIB® Grabber® High Thread Drywall Screws.

Fastener centres

300mm centres to each stud and plate. Place screws no closer than 12mm from paperbound edges and 18mm from any sheet end or cut edges.

**BUILDING SERVICE PENETRATIONS**

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.
Two way FRR – double timber frame with GIB Barrierline® central barrier

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<tr>
<td></td>
<td>Rw 63</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 280–310mm wide</td>
</tr>
</tbody>
</table>

**WET AREA WALL LINING**

If the 10mm GIB Braceline®/GIB Noiseline® wall lining is substituted with 10mm GIB Aqualine® on both sides, the FRR will be retained but a noise control reduction of 4 STC/Rw points can be expected.

If the 10mm GIB Braceline®/GIB Noiseline® wall lining is substituted with 13mm GIB Aqualine®, the FRR and noise control rating will be maintained.

**JOINTING**

Central Barrier: Unstopped.

Wall lining: 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®.

**SUPPLEMENTARY MATERIAL**

For additional information on this system refer to the GIB® Intertenancy Barrier Systems for Terrace Homes Specification and Installation Manual.
**Two way FRR – double timber frame with GIB Barrierline® central barrier**

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<tbody>
<tr>
<td>GBTLAB 60c</td>
<td>STC 67</td>
<td>Lining 1 x 13mm GIB Bracline®/GIB Noiseline® each side</td>
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<tr>
<td></td>
<td>Rw 65</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 286–316mm wide</td>
</tr>
</tbody>
</table>

**TIMBER FRAMING**

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<th>Stud size</th>
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<td>90mm</td>
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Framing to comply with:

- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603).

Maximum height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**CENTRAL BARRIER**

- Allow a 25–40mm gap between each timber frame and the GIB Barrierline® central barrier.
- Fix GIB® Rondo® 140 Perimeter Channels to the concrete floor with steel fasteners at 600mm centres and no more than 50mm from channel ends using 3.5mm x 30mm or 4.0mm x 25mm concrete nails or 6mm x 40mm concrete anchors.
- A 5mm gap between GIB® Rondo® 140 Perimeter Channels will let any collected rain water escape.
- GIB® Rondo® 140 Perimeter Channel to be sealed to the floor slab on one side with fire/acoustic sealant.
- Install 25mm GIB Barrierline® into GIB® H-Studs at 600mm centres.
- Cap GIB Barrierline® ends with GIB® Rondo® 140 Perimeter Channel.
- Offset GIB® H-Studs at least 100mm from wall studs to allow attachment of GIB® Wall Clips to both frames. Nog as required where no framing exists.
- Place two GIB® Wall Clips (one each side) no more than 600mm below the top of each GIB® H-Stud, no further apart than 3000mm vertically.
- Fix GIB® Rondo® 140 Perimeter Channel at wall ends to both timber frames with GIB® Wall Clips or GIB® Wall Straps placed no further apart than 3000mm vertically.
- Use no more than two GIB® Wall Clips or GIB® Wall Straps (one each side) for each 3000mm length of GIB® H-Stud or GIB® Rondo® 140 Perimeter Channel.
- In the roof space, fix 16mm GIB Fyreline® to one side of the GIB Barrierline® with 40mm x 8g chipboard screws on a 400mm grid, and at no more than 100mm from sheet edges.
- Extend the 16mm GIB Fyreline® at least 200mm below ceiling level.
- Once erected, protect the GIB Barrierline® and GIB Fyreline® from rain. The use of suitable sheeting can avoid delays in allowing the board to dry before wall linings are installed.

**SOUND CONTROL INFILL**

Install Pink® Batts® R2.2 (90mm) glass wool insulation between the studs and nogs in both frames.

**WALL LINING**

A single layer of 13mm GIB Braceline®/GIB Noiseline® fixed vertically or horizontally.

Use full height sheets where possible.

Sheet joints are touch fitted and must occur over framing. Where sheet end butt joints are unavoidable they must be formed over framing.

If the wall lining forms part of the structural bracing system, the lining type and fixings must comply with the published bracing system. Check requirements for specific bracing element hold-down connections.

**FASTENING THE LINING**

**Fasteners**

32mm x 6g GIB® Grabber® High Thread Drywall Screws.

**Fastener centres**

300mm centres to each stud and plate. Place screws no closer than 12mm from paperbound edges and 18mm from any sheet end or cut edges.

**BUILDING SERVICE PENETRATIONS**

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.

**WET AREA WALL LINING**

If the 13mm GIB Braceline®/GIB Noiseline® wall lining is substituted with 13mm GIB Aqualine® on both sides, the FRR will be retained but a noise control reduction of 3 STC/Rw points can be expected.
Two way FRR – double timber frame with GIB Barrierline® central barrier

<table>
<thead>
<tr>
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<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>GBTLAB 60c</td>
<td>STC 67</td>
<td>Lining 1 x 13mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 65</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 286–316mm wide</td>
</tr>
</tbody>
</table>

**JOINTING**
Central Barrier: Unstopped.
Wall lining: 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®.

**SUPPLEMENTARY MATERIAL**
For additional information on this system refer to the GIB® Intertenancy Barrier Systems for Terrace Homes Specification and Installation Manual.
Two way FRR – double timber frame with GIB Barrierline® central barrier

### Specification number

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<th>Performance</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GBTLAB 60d</td>
<td>STC 61</td>
<td>Lining 1 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 60</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 286–316mm wide</td>
</tr>
</tbody>
</table>

### TIMBER FRAMING

- Stud size: 90mm
- Space between frames: 80–110mm

Framing to comply with:
- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603).

Maximum height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

### CENTRAL BARRIER

- Allow a 25–40mm gap between each timber frame and the GIB Barrierline® central barrier.
- Fix GIB® Rondo® 140 Perimeter Channels to the concrete floor with steel fasteners at 600mm centres and no more than 50mm from channel ends using 3.5mm x 30mm or 4.0mm x 25mm concrete nails or 6mm x 40mm concrete anchors.
- A 5mm gap between GIB® Rondo® 140 Perimeter Channels will let any collected rain water escape.
- GIB® Rondo® 140 Perimeter Channel to be sealed to the floor slab on one side with fire/acoustic sealant.
- Install 25mm GIB Barrierline® into GIB® H-Studs at 600mm centres.
- Cap GIB Barrierline® ends with GIB® Rondo® 140 Perimeter Channel.
- Offset GIB® H-Studs at least 100mm from wall stud to allow attachment of GIB® Wall Clips to both frames. Nog as required where no framing exists.
- Place two GIB® Wall Clips (one each side) no more than 600mm below the top of each GIB® H-Stud, no further apart than 3000mm vertically.
- Fix GIB® Rondo® 140 Perimeter Channel at wall ends to both timber frames with GIB® Wall Clips or GIB® Wall Straps placed no further apart than 3000mm vertically.
- Use no more than two GIB® Wall Clips or GIB® Wall Straps (one each side) for each 3000mm length of GIB® H-Studs or GIB® Rondo® 140 Perimeter Channel.
- In the roof space, fix 16mm GIB Fyreline® to one side of the GIB Barrierline® with 40mm x 8g chipboard screws on a 400mm grid, and at no more than 100mm from sheet edges.
- Extend the 16mm GIB Fyreline® at least 200mm below ceiling level.
- Once erected, protect the GIB Barrierline® and GIB Fyreline® from rain. The use of suitable sheeting can avoid delays in allowing the board to dry before wall linings are installed.

### SOUND CONTROL INFILL

Install Pink® Batts® R2.2 (90mm) glass wool insulation between the studs and nogs in both frames.

### WALL LINING

A single layer of 13mm GIB® Standard Plasterboard fixed vertically or horizontally.

Use full height sheets where possible.

Sheet joints are touch fitted and must occur over framing.

Where sheet end butt joints are unavoidable they must be formed over framing.

If the wall lining forms part of the structural bracing system, the lining type and fixings must comply with the published bracing system. Check requirements for specific bracing element hold-down connections.

### FASTENING THE LINING

**Fasteners**

32mm x 6g GIB® Grabber® High Thread Drywall Screws.

**Fastener centres**

300mm centres to each stud and plate. Place screws no closer than 12mm from paperbound edges and 18mm from any sheet end or cut edges.

### BUILDING SERVICE PENETRATIONS

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings.

Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.
Two way FRR – double timber frame with GIB Barrierline® central barrier

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<tbody>
<tr>
<td>GBTLAB 60d</td>
<td>STC 61</td>
<td>Lining 1 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 60</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 286–316mm wide</td>
</tr>
</tbody>
</table>

**WET AREA WALL LINING**

If the 13mm GIB® Standard Plasterboard wall lining is substituted with 13mm GIB Aqualine®, the FRR and noise control rating will be retained.

**JOINTING**

Central Barrier: Unstopped.

Wall lining: 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®.

**SUPPLEMENTARY MATERIAL**

For additional information on this system refer to the GIB® Intertenancy Barrier Systems for Terrace Homes Specification and Installation Manual.

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**Diagram**: Two way FRR – double timber frame with GIB Barrierline® central barrier

- Place two GIB® Wall Clips (one each side) no more than 600mm below the top of each GIB® H-Stud, no further apart than 3000mm vertically.
- 13mm GIB® Standard Plasterboard
- GIB® Rondo® 140 Perimeter Channel sealed on one side to floor slab with fire/acoustic sealant.
- Fasteners at 300mm centres to each stud and plate.
- 13mm GIB® Standard Plasterboard

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**Notes**: Place two GIB® Wall Clips (one each side) no more than 600mm below the top of each GIB® H-Stud, no further apart than 3000mm vertically.

- GIB® H-Stud at 600mm centres
- GIB® Rondo® 140 Perimeter Channel
- Fasteners at 300mm centres to each stud and plate
- 13mm GIB® Standard Plasterboard
- Pink® Batts® R2.2 (90mm) glass wool insulation

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**Contact**: GIB® HELPLINE 0800 100 442 OR GIB.CO.NZ FOR MORE INFO

**September 2017**

**GIB NOISE CONTROL® SYSTEMS**
Two way FRR — double steel frame with GIB Barrierline® central barrier

<table>
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<tr>
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<tbody>
<tr>
<td>GBSAB 60a</td>
<td>STC 63</td>
<td>Lining 1 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 63</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~60/60</td>
<td>Partition 219mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return and placed in 64 x 30 x 0.50mm BMT 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.

Allow a minimum 20mm gap between the inside of each steel wall frame and the GIB Barrierline®.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

For wall heights greater than 3000mm a horizontal joint will need to be formed in the central barrier. Refer to page 102 for more information.

**CENTRAL BARRIER**

- Fix GIB® Rondo® 140 Perimeter Channel to floor slab with steel fasteners at 150mm maximum from ends and 600mm maximum centres in between and seal one side with fire/acoustic sealant.
- Fix GIB® Rondo® NZ18 Perimeter Angles or GIBFix® Angles to the slab above along one wall face using steel fasteners at 150mm maximum from ends and 600mm maximum centres in between.
- Cap GIB Barrierline® end with GIB® Rondo® 140 Perimeter Channel and seal one side with fire/acoustic sealant.
- Install GIB Barrierline® in GIB® H-Studs placed at 600mm centres.
- Close the top of the wall and the final panel using GIB® Rondo® NZ18 Perimeter Angles or GIBFix® Angles sealed to GIB Barrierline® one side with fire/acoustic sealant, and fasten as above.

**SOUND CONTROL INFILL**

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the studs in both frames.

**WALL LINING**

A single layer of 13mm GIB® Standard Plasterboard fixed vertically to each side of the frames. Sheets fitted hard to floor. Use full height sheets where possible. Sheet joints are touch fitted and must occur over framing.

**ACOUSTIC SEALANT**

A bead of GIB Soundseal® acoustic sealant is required around the perimeter of the wall lining.

**FASTENING THE LINING**

- **Fasteners**
  25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
- **Fastener centres**
  300mm centres up each stud. Place fasteners 12mm from sheet edges generally and 20mm clear of top and bottom channels.

**BUILDING SERVICE PENETRATIONS**

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.

**WET AREA WALL LINING**

If the 13mm GIB® Standard Plasterboard wall lining is substituted with 13mm GIB Aqualine®, the FRR and noise control rating will be retained.

**JOINTING**

Central barrier: Unstopped.

Wall lining: 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®.
Two way FRR — double steel frame with GIB Barrierline® central barrier

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<td></td>
<td>FRR ~/60/60</td>
<td>Partition 219mm wide</td>
</tr>
</tbody>
</table>

- GIB® H-Stud at 600mm centres
- GIB® Rondo® NZ18 Perimeter Angle or GIBFix® Angle sealed one side to GIB Barrierline® with fire/acoustic sealant
- Steel stud
- GIB® Rondo® 140 Perimeter Channel sealed one side to floor slab with fire/acoustic sealant
- GIB®® Standard Plasterboard
- Pink® Batts® BIB R1.8 (75mm)
Two way FRR — double steel frame with GIB Barrierline® central barrier

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<td></td>
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<td>LB/NLB Non load bearing</td>
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<tr>
<td></td>
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</table>

**Framing**

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return and placed in 64 x 30 x 0.50mm BMT 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.

Allow a minimum of 20mm gap between the inside of each steel wall frame and the GIB Barrierline®.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

For wall heights greater than 3000mm a horizontal joint will need to be formed in the central barrier. Refer to page 102 for more information.

**CENTRAL BARRIER**

- Fix GIB® Rondo® 140 Perimeter Channel to floor slab with steel fasteners at 150mm maximum from ends and 600mm maximum centres in between and seal one side with fire/acoustic sealant.
- Fix GIB® Rondo® NZ18 Perimeter Angles or GIBFix® Angles to the slab above along one wall face using steel fasteners at 150mm maximum from ends and 600mm maximum centres in between.
- Cap GIB Barrierline® end with GIB® Rondo® 140 Perimeter Channel and seal one side with fire/acoustic sealant.
- Install GIB Barrierline® in GIB® H-Studs placed at 600mm centres.
- Close the top of the wall and the final panel using GIB® Rondo® NZ18 Perimeter Angles or GIBFix® Angles sealed to GIB Barrierline® one side with fire/acoustic sealant, and fasten as above.

**SOUND CONTROL INFILL**

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the studs in both frames.

**WALL LINING**

1 layer of 13mm GIB® Standard Plasterboard fixed vertically one side of the frame and 2 layers of 13mm GIB® Standard Plasterboard fixed vertically on the other. Vertical joints of the outer layer are offset 600mm from those of the inner layer. Sheets fitted hard to floor. Use full height sheets where possible. Sheet joints are touch fitted and must occur over framing.

**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 and single layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws

**Fastener centres**

Inner layer and single layer: 300mm centres up each stud. Place fasteners 12mm from sheet edges generally and 20mm clear of top and bottom channels.

Outer layer: 300mm centres up each stud. Place fasteners 12mm from sheet edges generally and 30mm clear of top and bottom channels.

GIBFix® adhesive may be used to replace screws in the field of outer layer sheets. Do not replace screws with GIBFix® adhesive at sheet edges or place adhesive within 200mm of screw fixings.

**BUILDING SERVICE PENETRATIONS**

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.

**WET AREA WALL LINING**

If the 13mm GIB® Standard Plasterboard wall lining is substituted with 13mm GIB Aqualine®, the FRR and noise control rating will be retained.

**JOINTING**

Central barrier: Unstopped.

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 to be reinforced with paper tape and square stopped or finished with GIB-Cove®.
Two way FRR — double steel frame with GIB Barrierline® central barrier

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSAB 60b</td>
<td>STC 67</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard one side</td>
</tr>
<tr>
<td></td>
<td>Rw 66</td>
<td>1 x 13mm GIB® Standard Plasterboard other side</td>
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<tr>
<td></td>
<td>FRR ~60/60</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
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- 2x GIB® Rondo® NZ18 Perimeter Angle or GIBFix® Angle sealed one side to GIB Barrierline® with fire/acoustic sealant
- 13mm GIB® Standard Plasterboard
- Pink® Batts® BIB R1.8 (75mm)
- 2 layers of 13mm GIB® Standard Plasterboard
- GIB® H-Stud at 600mm centres
- GIB Barrierline®
- GIB® Rondo® 140 Perimeter Channel sealed one side to floor slab with fire/acoustic sealant
Two way FRR — double steel frame with GIB Barrierline® central barrier

<table>
<thead>
<tr>
<th>Specification number</th>
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<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>GBSAB 60c</td>
<td>STC 68</td>
<td>Lining 1 x 13mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 66</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ∼/60/60</td>
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</tbody>
</table>

FRAMING
Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return and placed in 64 x 30 x 0.50mm BMT 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.

Allow a minimum of 20mm gap between the inside of each steel wall frame and the GIB® Barrierline®.

WALL HEIGHTS
Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

For wall heights greater than 3000mm a horizontal joint will need to be formed in the central barrier. Refer to page 102 for more information.

CENTRAL BARRIER
- Fix GIB® Rondo® 140 Perimeter Channel to floor slab with steel fasteners at 150mm maximum from ends and 600mm maximum centres in between and seal one side with fire/acoustic sealant.
- Fix GIB® Rondo® NZ18 Perimeter Angles or GIBFix® Angles to the slab above along one wall face using steel fasteners at 150mm maximum from ends and 600mm maximum centres in between.
- Cap GIB Barrierline® end with GIB® Rondo® 140 Perimeter Channel and seal one side with fire/acoustic sealant.
- Install GIB Barrierline® in GIB® H-Studs placed at 600mm centres.
- Close the top of the wall and the final panel using GIB® Rondo® NZ18 Perimeter Angles or GIBFix® Angles sealed to GIB Barrierline® one side with fire/acoustic sealant, and fasten as above.

SOUND CONTROL INFILL
Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the studs in both frames.

WALL LINING
1 layer of 13mm GIB Braceline®/GIB Noiseline® fixed vertically to each side of the frames. Sheets fitted hard to floor. Use full height sheets where possible. Sheet joints are touch fitted and must occur over framing.

ACOUSTIC SEALANT
A bead of GIB Soundseal® acoustic sealant is required around the perimeter of the wall lining.

FASTENING THE LINING
Fasteners
25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres
300mm centres up each stud. Place fasteners 12mm from sheet edges generally and 20mm clear of top and bottom channels.

BUILDING SERVICE PENETRATIONS
Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the GIB Barrierline® central barrier. Penetrating the GIB Barrierline® central barrier may reduce the noise control performance of the system.

WET AREA WALL LINING
If the 13mm GIB Braceline®/GIB Noiseline® wall lining is substituted with 13mm GIB Aquatite®, the FRR will be retained but a noise control reduction of up to 3 STC/Rw points can be expected.

JOINTING
Central barrier: Unstopped.

Wall lining: 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®.
NOISE CONTROL SYSTEMS – INTERTENANCY

Two way FRR — double steel frame with GIB Barrierline® central barrier

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<td>GBSAB 60c</td>
<td>STC 68</td>
<td>Lining 1 x 13mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 66</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~60/60</td>
<td>Partition 219mm wide</td>
</tr>
</tbody>
</table>

2x GIB® Rondo® NZ18 Perimeter Angle or GIBFix® Angle sealed one side to GIB Barrierline® with fire/acoustic sealant

13mm GIB Braceline®/GIB Noiseline®
Two way FRR — staggered stud steel frame, 13mm GIB Fyreline® central barrier

### Specification number

<table>
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<th>Performance</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>GBSAB 60d</td>
<td>STC 56</td>
<td>Lining 1 x 13mm GIB Fyreline® and 1 x 10mm GIB® Standard Plasterboard each side</td>
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<tr>
<td></td>
<td>Rw 56</td>
<td>Non load bearing</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

### Framing

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return and placed in 64 x 30 x 0.50mm BMT 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.

### Wall Heights

Recommended maximum wall height is 4000mm. Specify 50mm deep deflection head channel at top of wall and 20mm expansion tolerance at top of studs for wall heights over 3400mm.

### Central Barrier

- Fix top and bottom channels for the first frame to slabs with steel fasteners at 150mm maximum from ends and 600mm maximum centres in between and install steel studs at 600mm centres.
- Fix 13mm GIB Fyreline® central barrier vertically to one side with 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws at 300mm centres. Place fasteners 12mm from sheet edges and 20mm clear of top and bottom channels. All sheet joints over framing.
- Construct a second frame against the central barrier. Fix tracks to slabs as above and place studs at 600mm centres, offset from first frame studs by 300mm.
- Fix the 13mm GIB Fyreline® central barrier to the studs of the second frame with 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws at 300mm centres. Place fasteners 12mm from sheet edges and 20mm clear of top and bottom channels. All sheet joints over framing.

### Sound Control Infill

Pink® Batts® R1.2 (50mm) glass wool insulation installed between the studs in both frames.

### Wall Lining

Inner layer: 13mm GIB Fyreline® fixed vertically to each open side of the double frame. Sheets fitted hard to floor. Use full height sheets where possible. Sheet joints are touch fitted and must occur over framing.

Outer layer: 10mm GIB® Standard Plasterboard fixed horizontally or vertically. If fixed vertically the joints of the outer layer must be offset by 600mm from 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 GIB® Grabber® Self Tapping Drywall Screws.

**Fastener Centres**

Fix inner layer sheets at 300mm centres to all studs and 20mm clear of top and bottom channels. When fixing outer layer sheets vertically, offset sheet joints from the inner layer. Fix at 300mm centres to all studs with top and bottom fasteners placed 30mm clear of top and bottom channels.

When fixing outer layer sheets horizontally, install fasteners in the sheet tapers where they cross the studs, and at 300mm centres to all studs with top and bottom fasteners placed 30mm clear of the top and bottom channels.

GIBFix® adhesive may be used to replace screws in the field of outer layer sheets. Do not replace screws with GIBFix® adhesive at sheet edges or place adhesive within 200mm of screw fixings.

### Building Service Penetrations

Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the 13mm GIB Fyreline® central barrier. Penetrating the 13mm GIB Fyreline® central barrier may reduce the noise control performance of the system.

### Wet Area Wall Lining

If the outer layer of 10mm GIB® Standard Plasterboard wall lining is substituted with 10mm GIB Aqualine®, the FRR and noise control rating will be retained.

### Jointing

Central barrier: Unstopped.

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®.
NOISE CONTROL SYSTEMS – INTER TENANCY

Two way FRR — staggered stud steel frame, 13mm GIB Fyreline® central barrier

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSAB 60d</td>
<td>STC 56</td>
<td>1 x 13mm GIB Fyreline® and 1 x 10mm GIB® Standard Plasterboard each side</td>
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<tr>
<td></td>
<td>Rw 56</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 2/60/60</td>
<td>Partition 187mm wide</td>
</tr>
</tbody>
</table>

13mm GIB Fyreline® Steel frame
13mm GIB Fyreline® Steel frame

Studs of first frame offset 300mm from studs of second frame
10mm GIB® Standard Plasterboard

10mm GIB® Standard Plasterboard fasteners at 300mm centres to perimeter studs. GIBFix® adhesive at 300mm centres to field of sheet

CONSTRUCTION SEQUENCE

Step 1
Step 2
Step 3
Step 4

GNS001
Two way FRR — staggered stud steel frame, 13mm GIB Fyreline® central barrier

**Specification number** | **Performance** | **Specifications**
---|---|---
GBSAB 60e | STC 57 | Lining 1 x 13mm GIB Fyreline® and 1 x 13mm GIB® Standard Plasterboard each side
 | Rw 58 | LB/NLB Non load bearing
 | FRR ~60/60 | Partition 193mm wide

**FRAMING**
Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return and placed in 64 x 30 x 0.50mm BMT 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.

**WALL HEIGHTS**
Recommended maximum wall height is 4000mm. Specify 50mm deep deflection head channel at top of wall and 20mm expansion tolerance at top of studs or wall heights over 3400mm.

**CENTRAL BARRIER**
- Fix top and bottom channels for the first frame to slabs with steel fasteners at 150mm maximum from ends and 600mm maximum centres in between and install steel studs at 600mm centres.
- Fix 13mm GIB Fyreline® central barrier vertically to one side with 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws at 300mm centres. Place fasteners 12mm from sheet edges and 20mm clear of top and bottom channels. All sheet joints over framing.
- Construct a second frame against the central barrier. Fix tracks to slabs as above and place studs at 600mm centres, offset from first frame studs by 300mm.
- Fix 13mm GIB Fyreline® central barrier to the studs of the second frame with 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws at 300mm centres. Place fasteners 12mm from sheet edges and 20mm clear of top and bottom channels. All sheet joints over framing.

**SOUND CONTROL INFILL**
Pink® Batts® R1.2 (50mm) glass wool insulation installed between the studs in both frames.

**WALL LINING**
Inner layer: 13mm GIB Fyreline® fixed vertically to each open side of the double frame. Sheets fitted hard to floor. Use full height sheets where possible. Sheet joints are touch fitted and must occur over framing.

Outer layer: 13mm GIB® Standard Plasterboard fixed horizontally or vertically. If fixed vertically the joints of the outer layer must be offset by 600mm from 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 GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres
Fix inner layer sheets at 300mm centres to all studs and 20mm clear of top and bottom channels. When fixing outer layer sheets vertically, offset sheet joints from the inner layer. Fix at 300mm centres to all studs with top and bottom fasteners placed 30mm clear of top and bottom channels.

When fixing outer layer sheets horizontally, install fasteners in the sheet tapers where they cross the studs, and at 300mm centres to all studs with top and bottom fasteners placed 30mm clear of the top and bottom channels.

GIBFix® adhesive may be used to replace screws in the field of outer layer sheets. Do not replace screws with GIBFix® adhesive at sheet edges or place adhesive within 200mm of screw fixings.

**BUILDING SERVICE PENETRATIONS**
Plumbing and electrical services are permitted in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide stud bay.

Suitable proprietary fire-stopping is required for larger penetrations, and for penetrations through the 13mm GIB Fyreline® central barrier. Penetrating the 13mm GIB Fyreline® central barrier may reduce the noise control performance of the system.

**WET AREA WALL LINING**
If the 13mm GIB® Standard Plasterboard wall lining is substituted with 13mm GIB Aqualine®, the FRR and noise control rating will be retained.

**JOINTING**
Central barrier: Unstopped.

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®.
Two way FRR — staggered stud steel frame, 13mm GIB Fyreline® central barrier

<table>
<thead>
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<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
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<tr>
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<td>Rw 58</td>
<td>LB/NLB Non load bearing</td>
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<tr>
<td></td>
<td>FRR −/60/60</td>
<td>Partition 193mm wide</td>
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</table>

### CONSTRUCTION SEQUENCE

1. **Step 1**: Steel frame
2. **Step 2**: Steel frame
3. **Step 3**: GIB® Standard Plasterboard
4. **Step 4**: GIB® Standard Plasterboard fasteners at 300mm centres to perimeter studs. GIBFix® adhesive at 300mm centres to field of sheet.
Two way FRR — double timber frame wall

### Specification number | Performance | Specifications
--- | --- | ---
GBTLA 30a | STC 59, Rw 57, FRR 30/30/30 | Lining 2 x 10mm GIB® Standard Plasterboard each side

### FRAMING

<table>
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<th>Stud size</th>
<th>Space between frames</th>
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<tr>
<td>70mm</td>
<td>65mm min</td>
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<tr>
<td>90mm</td>
<td>25mm min</td>
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</table>

Framing to comply with:
- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Framing dimensions and height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

### SOUND CONTROL INFILL

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs and nogs on one side of the double frame.

### WALL LINING

2 layers of 10mm 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 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® High Thread Drywall Screws.
- Outer layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.

**Fastener centres**
- Inner layer and outer layer: 300mm centres around sheet perimeter and 300mm to intermediate studs. 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®.
Two way FRR — double timber frame wall

<table>
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<tbody>
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<td>STC 58</td>
<td>Lining</td>
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<tr>
<td></td>
<td>FRR 30/30/30</td>
<td>Side 2: 2 x 10mm GIB Braceline®/GIB Noiseline®</td>
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FRAMING

<table>
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<tbody>
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<td>25mm min</td>
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Framing to comply with:
- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Framing dimensions and height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

SOUND CONTROL INFILL
Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs and nogs on one side of the double frame.

WALL LINING
Side 1: 1 layer of 10mm GIB Braceline®/GIB Noiseline® fixed vertically.
Side 2: 2 layers of 10mm GIB Braceline®/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 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 Soundsseal® acoustic sealant is required around the perimeter of the inner lining or framing. The outer lining is then bedded onto the bead.

FASTENING THE LINING
Fasteners
Inner or Single Layer: 25mm x 6g GIB® Grabber® High Thread Drywall Screws.
Outer layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.

Fastener centres
Inner layer and outer layer: 300mm centres around sheet perimeter and 300mm to intermediate studs. 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®.
Two way FRR — double timber frame wall

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**FRAMING**

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<td>25mm min</td>
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</tbody>
</table>

Framing to comply with:
- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Framing dimensions and height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs and nogs on one side of the double frame.

**WALL LINING**

2 layers of 10mm 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 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: 41mm x 6g GIB® Grabber® High Thread Drywall Screw.
- Outer layer: 51mm x 7g GIB® Grabber® High Thread Drywall Screw.

**Fastener centres**

Inner layer and outer layer: 300mm centres around sheet perimeter and 300mm to intermediate studs. 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®.
Two way FRR — double timber frame wall

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLA 90c</td>
<td>STC 63</td>
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<tr>
<td></td>
<td>Rw 62</td>
<td>LB/NLB Load bearing</td>
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<tr>
<td></td>
<td>FRR 90/90/90</td>
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**FRAMING**

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<th>Space between frames</th>
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<tbody>
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<td>65mm min</td>
</tr>
<tr>
<td>90mm</td>
<td>25mm min</td>
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Framing to comply with:
- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Framing dimensions and height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs and nogs on one side of the double frame.

**WALL 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 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: 51mm x 7g GIB® Grabber® High Thread Drywall Screws.
- Outer layer: 63mm x 8g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**
- Inner layer and outer layer: 300mm centres around sheet perimeter and 300mm to intermediate studs. 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®.
Two way FRR — double timber frame wall

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
<td>GBTLA 90d</td>
<td>STC 67</td>
<td>Lining 2 x 13mm GIB Braceline®/GIB Noiseline® each side</td>
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<tr>
<td></td>
<td>Rw 66</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 90/90/90</td>
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**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
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<tbody>
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<td>70mm</td>
<td>65mm min</td>
</tr>
<tr>
<td>90mm</td>
<td>25mm min</td>
</tr>
</tbody>
</table>

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.

Framing dimensions and height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs and nogs on one side of the double frame.

**WALL LINING**

2 layers of 13mm GIB Braceline®/GIB Noiseline® 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 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: 51mm x 7g GIB® Grabber® High Thread Drywall Screws.
- Outer layer: 63mm x 8g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**

Inner layer and outer layer: 300mm centres around sheet perimeter and 300mm to intermediate studs. 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®.
Two way FRR — double steel frame wall

<table>
<thead>
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<th>Performance</th>
<th>Specifications</th>
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<tbody>
<tr>
<td>GBSA 30b</td>
<td>STC 55</td>
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<tr>
<td></td>
<td>Rw 56</td>
<td>2 x 13mm GIB® Standard Plasterboard other side</td>
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<tr>
<td></td>
<td>FRR -/30/30</td>
<td>LB/NB Non load bearing</td>
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**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
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<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
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</tbody>
</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

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

**WALL LINING**

1 layer of 13mm GIB® Standard Plasterboard fixed vertically one side of the frame and 2 layers of 13mm GIB® Standard Plasterboard on the other.

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 Soundsafe® 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 and single layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**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®.
Two way FRR — double steel frame wall

**Specifications**

<table>
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<tr>
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</thead>
<tbody>
<tr>
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<td>STC 59</td>
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<tr>
<td></td>
<td>Rw 58</td>
<td>2 x 10mm GIB Braceline®/GIB Noiseline® other side</td>
</tr>
<tr>
<td></td>
<td>FRR ~60/60</td>
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**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
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<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
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Steel studs dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

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

**WALL LINING**

1 layer of 13mm GIB Fyreline® fixed vertically one side of the frame and 2 layers of 10mm GIB Braceline®/GIB Noiseline® on the other.

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 Soundsel® 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 and single layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
- Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**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®.

![Diagram of a double steel frame wall setup with GIB Fyreline®, GIB Braceline®, GIB Noiseline®, and Pink® Batts® BIB R1.8.](image)
Two way FRR — double steel frame wall

<table>
<thead>
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<th>Performance</th>
<th>Specifications</th>
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</thead>
<tbody>
<tr>
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<td>Rw 59</td>
<td>LB/NLB Non load bearing</td>
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<td></td>
<td>FRR ~45/45</td>
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**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>25mm min</td>
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</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

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

**WALL 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 GIB® Grabber® Self Tapping Drywall Screws.

**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®.
### Two way FRR — double steel frame wall

<table>
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<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSA 90c</td>
<td>STC 61</td>
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<td></td>
<td>FRR ~90/90</td>
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#### FRAMING

<table>
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<tr>
<th>Stud size</th>
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<td>64 x 34 x 0.50mm</td>
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Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

#### WALL HEIGHTS

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

#### SOUND CONTROL INFILL

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

#### WALL LINING

2 layers of 13mm GIB Fyreline® 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 GIB® Grabber® Self Tapping Drywall Screws.

**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®.
Two way FRR — double steel frame wall

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<tr>
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<th>Specifications</th>
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<tbody>
<tr>
<td>GBSA 90d</td>
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<td></td>
<td>FRR 90/90</td>
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### Framing

<table>
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<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
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</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

### Wall Heights

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

### Sound Control Infill

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

### Wall Lining

2 layers of 13mm GIB Braceline®/GIB Noiseline® 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 GIB® Grabber® Self Tapping Drywall Screws.

**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®.

---

2 layers of 13mm GIB Braceline®/GIB Noiseline®

Pink® Batts® BIB R1.8 (75mm)

Double steel studs
Two way FRR — timber frame wall — GIB Rail®

<table>
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<tr>
<th>Specification number</th>
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<th>Specifications</th>
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<tr>
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<td>STC 55</td>
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**Framing**

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<th>Space between frames</th>
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Framing to comply with:

- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VMT Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool 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.

**WALL 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**

**Fasteners**

- **Framing side**
  - Inner layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.
  - Outer layer: 51mm x 7g GIB® Grabber® High Thread Drywall Screws.

- **GIB Rail® side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**

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

Warning: Systems that utilise GIB Rail® require particular attention to ensure the sheet fasteners do not compromise acoustic performance. 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. Marking the position of the studs on the floor will help to avoid screwing into the studs.

**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®.
Two way FRR — timber frame wall — GIB Rail®

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<th>Specifications</th>
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<tbody>
<tr>
<td>GBTLA 60r</td>
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</tr>
<tr>
<td></td>
<td>Rw 54</td>
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**FRAMING**

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<th>Stud size</th>
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</table>

Framing to comply with:
- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool 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 face 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. 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.

**WALL LINING**

2 layers of 10mm GIB Braceline®/GIB Noiseline® 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 the 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**

**Framing side**

Inner layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.

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

**GIB Rail® side**

Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**

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

Warning: Systems that utilise GIB Rail® require particular attention to ensure the sheet fasteners do not compromise acoustic performance. 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. Marking the position of the studs on the floor will help to avoid screwing into the studs.

**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®.
Two way FRR — timber frame wall — GIB Rail®

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLA 90r</td>
<td>STC 55</td>
<td>Lining 2 x 13mm GIB Fyreline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 55</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 90/90/90</td>
<td>Partition 155mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

- **Stud size**
  - 90mm

- **Space between frames**
  - N/A

Framing to comply with:
- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool 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 face 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. 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.

**WALL 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 timber on the framing side. Where sheet end joints are unavoidable they must be over nogs or rail and the 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**
- **Framing side**
  - Inner layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.
  - Outer layer: 51mm x 7g GIB® Grabber® High Thread Drywall Screws.
- **GIB Rail® side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

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

Warning: Systems that utilise GIB Rail® require particular attention to ensure the sheet fasteners do not compromise acoustic performance. 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. Marking the position of the studs on the floor will help to avoid screwing into the studs.

**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®.
Two way FRR — timber frame wall — acoustic resilient mount

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLIC 45</td>
<td>STC 61</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 59</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 45/45/45</td>
<td>Partition 182mm wide</td>
</tr>
</tbody>
</table>

FRAMING

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>90mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Framing to comply with:

- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

SOUND CONTROL INFILL

Pink® Batts® R2.2 (90mm) glass wool 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.

WALL LINING

2 layers of 13mm GIB® Standard Plasterboard fixed vertically to the frame on one side and to the furring channel on the other.

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 the furring channel, 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

- Framing side
  - Inner layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.
  - Outer layer: 51mm x 7g GIB® Grabber® High Thread Drywall Screws.

- Furring channel side
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres

Fixings at 300mm centres to each stud and plate, and along each furring channel. Place fasteners no closer than 12mm to 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®.
Two way FRR — timber frame wall — acoustic resilient mount

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLC 60</td>
<td>STC 62</td>
<td>Lining 2 x 10mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 60</td>
<td>LB/NL Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>Partition 170–175mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>90mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Framing to comply with:

- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool 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.

**WALL LINING**

2 layers of 10mm GIB Braceline®/GIB Noiseline® 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 ends joints are unavoidable they must be over nogs and the 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

- **Framing side**
  - Inner layer: 41mm x 6g GIB® Grabber® High Thread Drywall Screws.
  - Outer layer: 51mm x 7g GIB® Grabber® High Thread Drywall Screws.

- **Furring channel side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres

Fixings at 300mm centres to each stud and plate, and along each furring channel. Place fasteners no closer than 12mm to 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®.
Two way FRR — timber frame wall — acoustic resilient mount

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBTLC 60a</td>
<td></td>
<td>Framing side 1 x 13mm GIB Braceline®/GIB Noiseline®</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Furring Channel side 2 x 13mm GIB Braceline®/GIB Noiseline®</td>
</tr>
<tr>
<td></td>
<td>STC 57</td>
<td>Load bearing</td>
</tr>
<tr>
<td></td>
<td>Rw 56</td>
<td>Partition 169–174mm wide</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td></td>
</tr>
</tbody>
</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>90mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Framing to comply with:

- NZBC B1 — Structure: AS1 Clause 3 — Timber (NZS 3604) or VM1 Clause 6 — Timber (NZS 3603).
- Studs at 600mm centres maximum.
- Nogs at 1350mm centres maximum.

Height as determined by NZS 3604 stud and top plate tables for load-bearing walls.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool 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.

**WALL LINING**

Framing side: 1 layer of 13mm GIB Braceline®/GIB Noiseline®.

Furring channel side: 2 layers of 13mm GIB Braceline®/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**

**Fasteners**

**Framing side**

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

**Furring channel side**

Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**

Fixings at 300mm centres to each stud and plate, and along each furring channel. Place fasteners no closer than 12mm to 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®.
**Two way FRR — steel frame wall — GIB Rail®**

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSA 30r</td>
<td>STC 55</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 55</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~30/30</td>
<td>Partition 129mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

Pink® Batts® BIB R1.8 (75mm) glass wool 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.

**WALL 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 studs on the framing side. Where sheet end joints are unavoidable they must be over nogs and the 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**

- **Framing side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

- **GIB Rail® side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**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.

Warning: Systems that utilise GIB Rail® require particular attention to ensure the sheet fasteners do not compromise acoustic performance. 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. Marking the position of the studs on the floor will help to avoid screwing into the studs.

**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®.
### Specification number | Performance | Specifications
---|---|---
GBSA 60r | STC 55
 | Rw 54
 | FRR ~60/60
Lining | 2 x 10mm GIB Braceline®/GIB Noiseline® each side
LB/NLB | Non load bearing
Partition | 117mm wide

#### FRAMING

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

#### WALL HEIGHTS
Recommended maximum wall height is 2700mm. For greater wall heights refer to steel stud centres and wall heights section on pages 14–15 of this publication.

#### SOUND CONTROL INFILL
Pink® Batts® BIB R1.8 (75mm) glass wool 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 Drywall 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.

#### WALL LINING
2 layers of 10mm GIB Braceline®/GIB Noiseline® 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 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**
  - **Framing side**
    - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
    - Outer layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - **GIB Rail® side**
    - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
    - Outer layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
- **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.
  - Warning: Systems that utilise GIB Rail® require particular attention to ensure the sheet fasteners do not compromise acoustic performance. 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. Marking the position of the studs on the floor will help to avoid screwing into the studs.

#### 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®.
Two way FRR — steel frame wall — GIB Rail®

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSA 90r</td>
<td>STC 57</td>
<td>Lining 2 x 13mm GIB Fyreline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 56</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~90/90</td>
<td>Partition 129mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 2700mm. For greater wall heights refer to steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

Pink® Batts® BIB R1.8 (75mm) glass wool 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.

**WALL 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**

<table>
<thead>
<tr>
<th>Fasteners</th>
<th>Framing side</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.</td>
</tr>
<tr>
<td></td>
<td>Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fasteners</th>
<th>GIB Rail® side</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.</td>
</tr>
<tr>
<td></td>
<td>Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fastener centres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixings at 300mm centres to each stud and along each rail. Place fasteners 12mm from sheet edges generally and 50mm from sheet ends.</td>
</tr>
<tr>
<td>Warning: Systems that utilise GIB Rail® require particular attention to ensure the sheet fasteners do not compromise acoustic performance. 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. Marking the position of the studs on the floor will help to avoid screwing into the studs.</td>
</tr>
</tbody>
</table>

**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®.
Two way FRR — steel frame wall — acoustic resilient mount

### Specification number

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSIC 45a</td>
<td>STC 55</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 54</td>
<td>LB/NB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR −/45/45</td>
<td>Partition 155–160mm wide</td>
</tr>
</tbody>
</table>

### FRAMING

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Steel stud dimensions 64 x 34 x 0.50mm BMT with 6mm return placed in 64 x 30 x 0.50mm BMT 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.

### WALL HEIGHTS

Recommended maximum wall height is 2700mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

### SOUND CONTROL INFILL

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the studs.

### ACOUSTIC RESILIENT MOUNT (ST-001)

The ST-001 clip is placed at 600mm centres vertically and fixed every second stud using a single 51mm x 7g GIB® Grabber® Self Tapping Drywall Screw. When adjusting the clip for depth, 3mm of rubber must remain between the underside of the steel spacerhead and 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.

### WALL 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 studs on the framing side. Where sheet end joints are unavoidable they must be over nogs and the 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

**Fasteners**

- **Furring channel side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

- **Framing side**
  - Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
  - Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**

Fixings at 300mm centres to each stud 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®.
Two way FRR — steel frame wall — staggered stud

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSA 30s</td>
<td></td>
<td>Lining</td>
</tr>
<tr>
<td></td>
<td>STC 55</td>
<td>1 x 13mm GIB® Standard Plasterboard one side</td>
</tr>
<tr>
<td></td>
<td>Rw 53</td>
<td>2 x 13mm GIB® Standard Plasterboard other side</td>
</tr>
<tr>
<td></td>
<td>FRR ~30/30</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Partition 131mm wide</td>
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</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Steel stud dimensions 64 x 30 x 0.50mm BMT with 6mm return placed in 92 x 30 x 0.50mm BMT steel channel.

Channel is fixed to floor and ceiling, and studs placed staggered at 300mm centres to form 600mm centres maximum at each side of the channel. Studs are placed to allow a 15mm expansion gap at the top of the frame. Rondo® staggered stud clips are used top and bottom of studs to friction fit studs to channel. No other fixings to channels are allowed.

**WALL HEIGHTS**

Recommended maximum wall height is 2400mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the studs. 600mm wide batts require splitting to 300mm.

**WALL LINING**

1 layer of 13mm GIB® Standard Plasterboard one side and 2 layers 13mm GIB® Standard Plasterboard on the other side.

All layers fixed vertically. 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. Where sheet end joints are unavoidable they must be over nogs and outer layer joints offset from the inner. Sheet joints are touch fitted and must occur over framing.

**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. On the single layer side the sealant is placed around the frame.

**FASTENING THE LINING**

**Fasteners**

- Inner or single layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
- Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**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®.
Two way FRR — steel frame wall — staggered stud

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBSA 90s</td>
<td>STC 60</td>
<td>Lining 1 x 13mm GIB Braceline®/GIB Noiseline® and 1 x 10mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 58</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~90/90</td>
<td>Partition 138mm wide</td>
</tr>
</tbody>
</table>

FRAMING

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>64 x 34 x 0.50mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Steel stud dimensions 64 x 30 x 0.50mm BMT with 6mm return placed in 92 x 30 x 0.50mm BMT steel channel.

Channel is fixed to floor and ceiling, and studs placed staggered at 300mm centres to form 600mm centres maximum at each side of the channel. Studs are placed to allow a 15mm expansion gap at the top of the frame. Rondo® staggered stud clips are used top and bottom of studs to friction fit studs to channel. No other fixings to channels are allowed.

WALL HEIGHTS

Recommended maximum wall height is 2400mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

SOUND CONTROL INFILL

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the studs. 600mm wide batts require splitting to 300mm.

WALL LINING

1 layer of 13mm GIB Braceline®/GIB Noiseline® and 1 layer of 10mm GIB Braceline®/GIB Noiseline® on each side.

All layers fixed vertically. 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. Where sheet end joints are unavoidable they must be over nogs and outer layer joints offset from the inner. Sheet joints are touch fitted and must occur over framing.

ACOUSTIC SEALANT

A bead of GIB Soundsel® 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 GIB® Grabber® Self Tapping Drywall Screws.

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®.
### Two way FRR — steel frame wall — GIB® Rondo® Quiet Stud®

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBQSA 45</td>
<td>STC 56</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard each side</td>
</tr>
<tr>
<td></td>
<td>Rw 56</td>
<td>LB/NLB Non load bearing</td>
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<tr>
<td></td>
<td>FRR −/45/45</td>
<td>Partition 144mm wide</td>
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</tbody>
</table>

#### FRAMING

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>92 x 45 x 0.55mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

GIB® Rondo® Quiet Stud® resilient steel stud 92 x 45 x 0.55mm BMT and placed in 92 x 30 x 0.55mm BMT 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.

#### WALL HEIGHTS

Recommended maximum wall height is 3800mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

#### SOUND CONTROL INFILL

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs.

#### WALL 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. 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 GIB® Grabber® Self Tapping Drywall Screws.

**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®.
Two way FRR — steel frame wall — GIB® Rondo® Quiet Stud®

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBQSA 60a</td>
<td>STC 55</td>
<td>Lining</td>
</tr>
<tr>
<td></td>
<td>Rw 55</td>
<td>1 x 13mm and 1 x 10mm GIB Braceline®/GIB Noiseline® one side</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60</td>
<td>1 x 13mm GIB Braceline®/GIB Noiseline® on other side</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LB/NLB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non load bearing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Partition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>128mm wide</td>
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</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>92 x 45 x 0.55mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

GIB® Rondo® Quiet Stud® resilient steel stud 92 x 45 x 0.55mm BMT and placed in 92 x 30 x 0.55mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 3800mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs.

**WALL LINING**

1 layer of 13mm GIB Braceline®/GIB Noiseline® and 1 layer of 10mm GIB Braceline®/GIB Noiseline® one side and 1 layer of 13mm GIB Braceline®/GIB Noiseline® other side fixed vertically to 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 GIB® Grabber® Self Tapping Drywall Screws.

**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®.
Two way FRR — steel frame wall — GIB® Rondo® Quiet Stud®

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBQSA 90</td>
<td>STC 58</td>
<td>Lining 1 x 13mm and 1 x 10mm GIB Braceline®/GIB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 59</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~90/90</td>
<td>Partition 138mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>92 x 45 x 0.55mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

GIB® Rondo® Quiet Stud® resilient steel stud 92 x 45 x 0.55mm BMT and placed in 92 x 30 x 0.55mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 3800mm. For greater wall heights refer to the steel stud centres and wall heights section on pages 14–15 of this publication.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs.

**WALL LINING**

1 layer of 13mm and 1 layer of 10mm GIB Braceline®/GIB Noiseline® 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 GIB® Grabber® Self Tapping Drywall Screws.

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®.
Floor/ceiling — timber joists

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 60b</td>
<td>STC 57</td>
<td>Lining 2 x 13mm GIB Fyreline®</td>
</tr>
<tr>
<td></td>
<td>Rw 56</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>IIC* 47–69</td>
</tr>
</tbody>
</table>

**FLOOR FRAMING**
Floor joists shall comply with NZS 3604. Joists shall be spaced at 600mm centres maximum and shall have a depth of 190mm minimum.

**Alternative floor framing**
Use either Hyspan® or Hybeam® HJ series joists designed for strength and serviceability, no less than 190mm deep and spaced at no more than 600mm. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor-ceiling to wall junctions.

**FLOORING**
Flooring shall be nominal 20mm particle board or 20mm oriented strand board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer’s specifications. Flooring sheet joints must have a tongue and groove jointer, or be formed over framing.

If 17mm thick structural plywood is selected as the flooring material, one of the following floor coverings must be installed to achieve the listed STC and Rw performance:

- 4mm cushion-back vinyl; or,
- Wooden strip flooring; or,
- Ceramic tile; or,
- 40oz cut pile carpet loose laid on 8mm foam underlay.

**CEILING BATTEN AND DIRECT FIX CLIP SYSTEM**
The clips shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling batten system. Fasten each clip to the joist with 3 x 32mm x 8g GIB® Grabber® Self Tapping Water Head Screws. The battens shall be spaced at 600mm centres maximum.

**SOUND CONTROL INFILL**
Ceiling overlaid with Pink® Batts® BIB R1.8 (75mm) glass wool insulation.

**CEILING LINING**
2 layers of 13mm GIB Fyreline® fixed at right angles to the steel battens.

Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on the battens and are offset between the first and second layers. Sheet joints are touch fitted.

**FASTENING THE LINING**

**Fasteners**
Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres (both layers)**
200mm centres along each batten and at 100mm centres along sheet end butt joints. Place fasteners no closer than 12mm to the sheet edges.

**ACOUSTIC SEALANT**
A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter. The outer lining is then bedded onto the bead.

**WALL/CEILING JUNCTIONS**
The internal angle between the ceiling and walls are finished with 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**
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.

*I Impact Insulation Class (IIC)*
A performance of IIC 47 is achieved by a bare floor.
A performance of IIC 50 is achieved with a floor covering of 4mm cushion-backed vinyl.
A performance of IIC 69 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

*Note: See page 90 for perimeter details.*
Floor/ceiling — timber joists

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 60b</td>
<td>STC 57</td>
<td>Lining 2 x 13mm GIB Fyreline®</td>
</tr>
<tr>
<td></td>
<td>Rw 56</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>IIC* 47–69</td>
</tr>
</tbody>
</table>

- GIB® Rondo® metal ceiling batten on GIB® Direct Fix Clip
- Pink® Batts® BIB R1.8 (75mm)
- 2 layers of 13mm GIB Fyreline®
Floor/ceiling — timber joists

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 60d</td>
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<td></td>
<td>Rw 65</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>IIC* 57–76</td>
</tr>
</tbody>
</table>

**FLOOR FRAMING**

Floor joists shall comply with NZS 3604, be spaced at 450mm centres maximum and have a depth of 190mm minimum.

**ALTERNATIVE FLOOR FRAMING**

Use either Hyspan® or Hybeam® HJ series joists designed for serviceability, no less than 200mm deep and spaced at no more than 450mm. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

**FLOORING**

James Hardie Secura Interior Flooring fixed at right angles to the timber floor joists. Sheet edges other than tongue and groove must be supported by floor joists. Sheets must be laid in a staggered pattern. The minimum length for a cut sheet is 900mm. Apply a 6mm continuous bead of adhesive to joists prior to installation of sheets.

**FASTENING THE FLOORING**

Adhesive

- Bostik Seal ‘n’ Flex 1; or,
- Sika Sikaflex 11FC; or,
- Holdfast 220LM.

Fasteners

- 40mm x 10g wood thread self embedding screws; or,
- 50 x 2.87mm stainless steel ring RounDrive nails; or,
- 50 x 2.87mm Dekfast HD galvanised RounDrive nails.

Fastener Centres (both layers)

200mm centres along each joist. Place fasteners no closer than 25mm to longitudinal sheet edges and 12mm from transverse sheet edges. Place fasteners no closer than 50mm to sheet corners.

**FLOATING FLOOR AND FLOORING VOID SOUND CONTROL INFILL**

Space the James Hardie Acoustic Cradles at 450mm maximum centres on the bottom layer of James Hardie Secura Interior Flooring. The James Hardie Acoustic Cradles do not need to be aligned with the timber floor joists and are not to be fixed down to the bottom layer of James Hardie Secura Interior Flooring.

Place the James Hardie Acoustic Channels in the James Hardie Acoustic Cradles. Space James Hardie Acoustic Channels at 450mm maximum centres.

Place 50mm thick sound control infill between James Hardie Acoustic Channels. Minimum density 9.6 kg/m³. A suitable product is Pink® Batts® R1.2 (50mm) glass wool insulation.

James Hardie Secura Interior Flooring fixed at right angles to the James Hardie Acoustic Channels. Sheet edges other than tongue and groove must be supported by channels. Sheets must be laid in a staggered pattern. The minimum length for a cut sheet is 900mm. Ensure the sheets are laid the correct way down depending on the final finish i.e. tiles or vinyl. Apply a 6mm continuous bead of adhesive to joists prior to installation of sheets.

Allow a 5mm minimum gap where sheet edges butt into external/ internal walls. Fill gap with GIB Soundseal® acoustic sealant.

In designated wet areas there is a need to seal the sheet joints and apply a waterproof membrane. If tiles are to be applied as a final finish there may be a requirement to form one or more control joints.

**GIB QUICK CLIP® AND BATTENS**

The GIB Quiet Clip® shall be fastened to the joists at maximum 1200mm centres (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling battens.

**INSTALLING THE GIB QUICK CLIP®**

Use 3 x 32mm x 8g GIB® Grabber® Self Tapping Wafer Head Screws. Insert the first screw into the middle rubber grommet, tighten enough to hold the GIB Quiet Clip® in place, adjust the clip to the correct height, insert the remaining two screws and tighten. Do not overtighten the screws to the point where the grommet is crushed. The screws should be tightened enough to allow the flexibility to remain in the connection between the grommet and the timber joists.

**CEILING VOID SOUND CONTROL INFILL**

Place minimum 75mm thick sound control infill on top of the GIB® Rondo® metal ceiling battens. Minimum density 9.6 kg/m³. A suitable product is Pink® Batts® BIB R1.8 (75mm) glass wool insulation.

**CEILING LINING**

2 layers of 13mm GIB Fyreline® fixed at right angles to the steel battens.

Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on the battens and are offset between the first and second layers. Sheet joints are touch fitted.

**FASTENING THE LINING**

Fasteners

Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres (both layers)

200mm centres along each batten and at 100mm centres along sheet end butt joints. Place fasteners no closer than 12mm to the sheet edges.

**ACOUSTIC SEALANT**

A bead of GIB Soundseal® acoustic sealant is required around the ceiling perimeter.

**WALL/CEILING JUNCTIONS**

The internal angle between 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.
Floor/ceiling — timber joists

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<tr>
<th>Specification number</th>
<th>Performance</th>
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<td>GBDFA 60d</td>
<td>STC 67</td>
<td>Lining 2 x 13mm GIB Fyreline®</td>
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<tr>
<td></td>
<td>FRR 60/60/60</td>
<td>IIC* 57–76</td>
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</table>

**JOINTING**
All fastener heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.

**SUPPLEMENTARY MATERIAL**
For additional information covering general and wet area installations of James Hardie Secura Interior Flooring, refer to the James Hardie Secura Interior Flooring Installation Manual.

*IImpact Insulation Class (IIC)*
A performance of IIC 57 is achieved with a bare floor.
A performance of IIC 57 is achieved with a floor covering of 4mm cushion-backed vinyl.
A performance of IIC 76 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

*Note: See page 90 for perimeter details.*

**CONSTRUCTION DETAIL**

![Diagram of construction detail](attachment:diagram.png)
Floor/ceiling — timber joists

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<tr>
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<td></td>
<td>FRR 60/60/60</td>
<td>IIC* 56–72</td>
</tr>
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</table>

**FLOOR FRAMING**

Floor joists shall comply with NZS 3604, be spaced at 600mm centres maximum and have a depth of 190mm minimum.

**ALTERNATIVE FLOOR FRAMING**

Use either Hyspan® or Hybeam® HJ series joists designed for serviceability, no less than 190mm deep and spaced at no more than 600mm. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

**FLOORING**

Laminex Strandfloor® Tongue & Groove or Laminex Strandfloor® H3.1 Tongue & Groove flooring fixed at right angles to the floor joists. Sheet edges other than tongue and groove must be supported by floor joists. No nogging required to support longitudinal sheet joints. Sheets must be laid in a staggered pattern. The minimum length for a cut sheet is 900mm. Apply a 6mm continuous bead of adhesive to joists prior to installation of sheets.

**FASTENING THE FLOORING**

Adhesive is recommended for use in conjunction with mechanical fastening on both layers.

- Adhesive
  - Bostik – Alpha Grip; or,
  - Sika – Nailbond Premium; or,
  - Holdfast – Gorilla Grip; or,
  - HB Fuller – Sturdi Bond.

Adhesive shall be applied in a continuous 5mm bead to all floor joists and between sheet ends. A 2mm bead shall be applied along the tongue of the tongue & groove panels as they are laid.

**Fasteners**

45mm x 8g wood thread self drilling screws (corrosion resistant).

**Fastener Centres (both layers)**

200m centres along each joist. Place fasteners no closer than 15mm to longitudinal and transverse sheet edges. Place fasteners no closer than 50mm to sheet corners.

**FLOATING FLOOR AND FLOORING VOID SOUND CONTROL INFILL**

Space AcoustiFlor™ Acoustic Cradles at 450mm maximum centres on the bottom layer of Laminex Strandfloor® Tongue & Groove flooring. The AcoustiFlor™ Acoustic Cradles do not need to be aligned with the timber floor joists and are not to be fixed down to the bottom layer of Laminex Strandfloor® Tongue & Groove flooring.

Place the AcoustiFlor™ Structural Battens in the AcoustiFlor™ Acoustic Cradles. Space AcoustiFlor™ Structural Battens at 400mm maximum centres.

Place 50mm thick sound control infill between Acoustiflor™ Structural Battens. Minimum density 9.6 kg/m³. A suitable product is Pink® Batts® R1.2 (50mm) glass wool insulation.

Laminex Strandfloor® Tongue & Groove flooring, fixed at right angles to the AcoustiFlor™ Structural Battens. Sheet edges other than tongue and groove must be supported by battens. Sheets must be laid in a staggered pattern. The minimum length for a cut sheet is 900mm. Ensure the sheets are laid the correct way down depending on the final finish i.e. tiles or vinyl. Apply a 6mm continuous bead of adhesive to joists prior to installation of sheets.

Allow a 5mm minimum gap where sheet edges butt into external/ internal walls. Fill gap with GIB Soundseal® acoustic sealant.

In designated wet areas there is a need to seal the sheet joints and apply a waterproof membrane. If tiles are to be applied as a final finish there may be a requirement to form one or more control joints.

**GIB QUIET CLIP® AND BATTENS**

The GIB Quiet Clip® shall be fastened to the joists at maximum 1200mm centres (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling battens.

**INSTALLING THE GIB QUIET CLIP®**

Use 3 x 32mm x 8g GIB® Grabber® Self Tapping Wafer Head Screws. Insert the first screw into the middle rubber grommet, tighten enough to hold the GIB Quiet Clip® in place, adjust the clip to the correct height, insert the remaining two screws and tighten. Do not overtighten the screws to the point where the grommet is crushed. The screws should be tightened enough to allow the flexibility to remain in the connection between the grommet and the timber joists.

**CEILING VOID SOUND CONTROL INFILL**

Place minimum 75mm thick sound control infill on top of the GIB® Rondo® metal ceiling battens. Minimum density 9.6 kg/m³. A suitable product is Pink® Batts® BIB R1.8 (75mm) glass wool insulation.

**CEILING LINING**

2 layers of 13mm GIB Fyreline® fixed at right angles to the steel battens.

Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on the battens and are offset between the first and second layers. Sheet joints are touch fitted.

**FASTENING THE LINING**

**Fasteners**

Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres (both layers)**

200mm centres along each batten and at 100mm centres along sheet end butt joints. Place fasteners no closer than 12mm to the sheet edges.
Floor/ceiling — timber joists

### Specification number

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<th>GBDFA 60e</th>
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<td>Rw 64</td>
<td>Load bearing</td>
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<td>FRR 60/60/60</td>
<td>IIC* 56–72</td>
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### ACOUSTIC SEALANT

A bead of GIB Soundseal® acoustic sealant is required around the ceiling perimeter.

### WALL/CEILING JUNCTIONS

The internal angle between 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.

### SUPPLEMENTARY MATERIAL

For additional information covering general and wet area installations of Laminex Strandfloor® Tongue & Groove or Laminex Strandfloor® H3.1 Tongue & Groove flooring, refer to the Laminex Strandfloor® Technical Manual.

*Impact Insulation Class (IIC)*

A performance of IIC 56 is achieved with a bare floor.

A performance of IIC 57 is achieved with a floor covering of 4mm cushion-backed vinyl.

A performance of IIC 72 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

Note: See page 90 for perimeter details.
Floor/ceiling — steel joists

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<td>FRR 45/45/45</td>
<td>IIC* 48–72</td>
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**FLOOR FRAMING**
Steel floor joists shall be a minimum 190mm deep C-section with 45mm flanges and a thickness of 1.55mm, spaced at no more than 600mm centres.

**FLOORING**
Flooring shall be nominal 20mm particle board or 20mm oriented strand board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer’s specifications. Flooring sheet joints must have a tongue and groove jointer, or be formed over framing.

If 17mm thick structural plywood is selected as the flooring material, one of the following floor coverings must be installed to achieve the listed STC and Rw performance:
- 4mm cushion-back vinyl; or,
- Wooden strip flooring; or,
- Ceramic tile; or,
- 40oz cut pile carpet loose laid on 8mm foam underlay.

**GIB QUIET CLIP® AND BATTENS**
The GIB Quiet Clip® is fastened to the joists at a maximum of 1200mm centres and minimum 900mm centres to support the GIB® Rondo® metal ceiling battens. Fasten each clip to the joist with 3 x 30mm x 10g Drill-Point Wafer Head Screws. The battens are spaced at a maximum of 600mm. A perimeter channel or GIBFix® Angle is required around the perimeter of the ceiling.

**CEILING LINING**
2 layers of 13mm GIB Fyreline® fixed at right angles to the battens.

Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on battens and are offset between first and second layers. Sheet joints are touch fitted.

**SOUND CONTROL INFILL**
Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the joists.

**FASTENING THE LINING**
**Fasteners**
Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres (both layers)**
200mm centres along each batten and 100mm centres at butt end joints. Place fasteners 12mm from sheet edges.

**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.

**ACOUSTIC SEALANT**
A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter. The outer lining is then bedded onto the bead.

**JOINTING**
All fastener heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled GIB® Site Guide.

*Impact Insulation Class (IIC)*
A performance of IIC 48 is achieved by a bare floor.
A performance of IIC 51 is achieved with a floor covering of 4mm cushion-backed vinyl.
A performance of IIC 72 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

Note: See page 90 for perimeter details.
**Floor/ceiling — steel joists**

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<td>LB/NLB</td>
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<td>IIC*</td>
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<td>48–72</td>
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</tbody>
</table>

- GIB® Rondo® metal ceiling batten on GIB Quiet Clip®
- 2 layers of 13mm GIB Fyreline®
- Pink® Batts® BIB R1.8 (75mm)
Floor/ceiling — steel joists

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<th>Specification number</th>
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<td>GBSJA 60</td>
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<td>Load bearing</td>
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<td>FRR 60/60/60</td>
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**FLOOR Framing**
Steel floor joists shall be a minimum 190mm deep C-section with 45mm flanges and a thickness of 1.55mm, spaced at no more than 600mm centres.

**Flooring**
Flooring shall be nominal 20mm particle board or 20mm oriented strand board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer’s specifications. Flooring sheet joints must have a tongue and groove jointer, or be formed over framing.

If 17mm thick structural plywood is selected as the flooring material, one of the following floor coverings must be installed to achieve the listed STC and Rw performance:
- 4mm cushion-back vinyl; or,
- Wooden strip flooring; or,
- Ceramic tile; or,
- 40oz cut pile carpet loose laid on 8mm foam underlay.

**GIB Quiet Clip® and Battens**
The GIB Quiet Clip® is fastened to the joists at a maximum of 1200mm centres and minimum 900mm centres to support the GIB® Rondo® metal ceiling battens. Fasten each clip to the joist with 3 x 30mm x 10g Drill-Point Wafer Head Screws. The battens are spaced at a maximum of 600mm. A perimeter channel or GIBFix® Angle is required around the perimeter of the ceiling.

**Ceiling Lining**
1 layer 16mm (inner) and 1 layer 13mm GIB Fyreline® (outer) fixed at right angles to the battens.

Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on battens and are offset between first and second layers. Sheet joints are touch fitted.

**Sound Control Infill**
Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the joists.

**Fastening the Lining**
**Fasteners**
- Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
- Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres (both layers)**
200mm centres along each batten and 100mm centres at butt end joints. Place fasteners 12mm from sheet edges.

**Acoustic Sealant**
A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter. The outer lining is then bedded onto the bead.

**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**
- 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.

*Impact Insulation Class (IIC)*
- A performance of IIC 49 is achieved by a bare floor.
- A performance of IIC 52 is achieved with a floor covering of 4mm cushion-backed vinyl.
- A performance of IIC 73 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

Note: See page 90 for perimeter details.
Floor/ceiling — steel joists

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GBR® Rondo® metal ceiling batten on GIB Quiet Clip®

1 layer of 16mm GIB Fyreline®

Pink® Batts® BIB R1.8 (75mm)

1 layer of 13mm GIB Fyreline®
Floor/ceiling — suspended grid

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<td>IIC* 39–71</td>
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FLOOR FRAMING
Floor joists shall comply with NZS 3604. Joists shall be spaced at 600mm centres maximum and shall have a depth of 140mm minimum.

FLOORING
Minimum flooring shall be 20mm thick particle board or 20mm oriented strand board or 17mm thick structural plywood fixed to joists in accordance with the manufacturer’s instructions. Nogs are required behind sheet joints. If tongue and groove flooring is used verification of performance must be obtained from the supplier of the flooring system.

SUSPENSION SYSTEM
USG Boral ScrewFix® steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting DJ38 strongback channels spaced at 1200mm centres and FC37 furring channels spaced at 600mm centres maximum. An alternative suspension system with at least equivalent layout, material properties, strength and stiffness may be used. The suspension system shall be installed in accordance with the manufacturer’s instructions. The cavity depth shall be 275mm minimum (i.e. the distance between the underside of the flooring and the top of the ceiling linings).

SOUND CONTROL INFILL
Ceiling overlaid with Pink® Batts® BIB R1.8 (75mm) glass wool insulation.

CEILING LINING
2 layers of 13mm GIB Fyreline® fixed at right angles to the furring channels.
Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints must occur on the furring channel with those of the outer layer offset from those of the inner layer. Sheet joints are touch fitted.

FASTENING THE LINING
Fasteners
Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.
Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Fastener centres (both layers)
200mm centres around the ceiling perimeter and along each furring channel. 100mm centres where sheet end butt joints occur. Place fasteners no closer than 12mm to the sheet edges.

ACOUSTIC SEALANT
A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter. The outer lining is then bedded onto the bead.

WALL/CEILING JUNCTIONS
The internal angle between the ceiling and walls are finished with 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
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.

*Impact Insulation Class (IIC)
A performance of IIC 39 is achieved with a bare floor.
A performance of IIC 43 is achieved with a floor covering of 4mm cushion-backed vinyl.
A performance of IIC 71 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

Note: See page 90 for perimeter details.
Floor/ceiling — suspended grid

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USG Boral ScrewFix® suspension system

2 layers of 13mm GIB Fyreline®

Pink® Batts® BIB R1.8 (75mm)
Floor/ceiling — suspended grid

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**FLOOR FRAMING**

Floor joists shall comply with NZS 3604. Joists shall be spaced at 600mm centres maximum and shall have a depth of 140mm minimum.

**FLOORING**

Minimum flooring shall be 20mm thick particle board or 20mm oriented strand board or 17mm thick structural plywood fixed to joists in accordance with the manufacturer’s instructions. Nogs are required behind sheet joints. If tongue and groove flooring is used verification of performance must be obtained from the supplier of the flooring system.

**SUSPENSION SYSTEM**

USG Boral ScrewFix® steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting DJ38 strongback channels spaced at 1200mm centres and FC37 furring channels spaced at 600mm centres maximum. An alternative suspension system with at least equivalent layout, material properties, strength and stiffness may be used. The suspension system shall be installed in accordance with the manufacturer’s instructions. The cavity depth shall be 275mm minimum (i.e. the distance between the underside of the flooring and the top of the ceiling linings).

**SOUND CONTROL INFILL**

Pink® Batts® BIB R1.8 (75mm) glass wool insulation installed between the joists.

**CEILING LINING**

1 layer of 13mm GIB Fyreline® (inner layer) plus 1 layer of 16mm GIB Fyreline® fixed at right angles to the furring channels. Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints must occur on the furring channels with those of the outer layer offset from those of the inner layer. Sheet joints are touch fitted.

**FASTENING THE LINING**

**Fasteners**

Inner layer: 32mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres (both layers)**

200mm centres around the ceiling perimeter and along each furring channel. 100mm centres where sheet end butt joints occur. Place fasteners no closer than 12mm to the sheet edges.

**ACOUSTIC SEALANT**

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

**WALL/CEILING JUNCTIONS**

The internal angle between the ceiling and walls are finished with 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**

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.

*Impact Insulation Class (IIC)*

A performance of IIC 39 is achieved with a bare floor.

A performance of IIC 44 is achieved with a floor covering of 4mm cushion-backed vinyl.

A performance of IIC 72 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

Note: See page 90 for perimeter details.
## Floor/ceiling — suspended grid

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USG Boral ScrewFix® suspension system

Pink® Batts® BIB R1.8 (75mm)

1 layer of 13mm GIB Fyreline®

1 layer of 16mm GIB Fyreline®
Two way FRR — steel frame wall — GIB® Rondo® Quiet Stud®

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<td>GBQSA 30</td>
<td>STC 52</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard one side</td>
</tr>
<tr>
<td></td>
<td>Rw 51</td>
<td>1 x 13mm GIB® Standard Plasterboard other side</td>
</tr>
<tr>
<td></td>
<td>FRR ~/30/30</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Partition 131mm wide</td>
</tr>
</tbody>
</table>

**Framing**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>92 x 45 x 0.55mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

GIB® Rondo® Quiet Stud® resilient steel stud 92 x 45 x 0.55mm BMT and placed in 92 x 30 x 0.55mm BMT steel channel. Channel is fixed to floor and ceiling. Studs are friction fitted at 600mm centres with a 15mm expansion gap at the top of the frame. No fixings to the top channel.

**WALL HEIGHTS**

Recommended maximum wall height is 3800mm. For wall heights up to 4200mm place studs at 400mm centres. For greater heights please contact the GIB® Helpline.

**Sound Control Infill**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs.

**Wall Lining**

2 layers of 13mm GIB® Standard Plasterboard one side and 1 layer of 13mm GIB® Standard Plasterboard the other side.

Linings are fixed vertically to 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 and single layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**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®.
Two way FRR — steel frame wall — GiB® Rondo® Quiet Stud®

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBQSA 60</td>
<td>STC 49</td>
<td>Lining 1 x 13mm GiB Braceline®/GiB Noiseline® each side</td>
</tr>
<tr>
<td></td>
<td>Rw 50</td>
<td>LB/NLB Non load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR ~60/60</td>
<td>Partition 118mm wide</td>
</tr>
</tbody>
</table>

**FRAMING**

<table>
<thead>
<tr>
<th>Stud size</th>
<th>Space between frames</th>
</tr>
</thead>
<tbody>
<tr>
<td>92 x 45 x 0.55mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

GiB® Rondo® Quiet Stud® resilient steel stud 92 x 45 x 0.55mm BMT and placed in 92 x 30 x 0.55mm BMT 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.

**WALL HEIGHTS**

Recommended maximum wall height is 3800mm. For wall heights up to 4200mm place studs at 400mm centres. For greater heights please contact the GiB® Helpline.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs.

**WALL LINING**

1 layer of 13mm GiB Braceline®/GiB Noiseline® fixed vertically each side of the frame.

Vertical joints are offset 600mm from those of the opposing side. Sheets 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.

**ACOUSTIC SEALANT**

A bead of GiB Soundseal® acoustic sealant is required around the perimeter of the frame. The lining is then bedded onto the bead.

**FASTENING THE LINING**

**Fasteners**

25mm x 6g GiB® Grabber® Self Tapping Drywall Screws.

**Fastener centres**

300mm centres up each stud.

Place fasteners 12mm from sheet edges generally and 50mm from sheet ends.

**JOINTING**

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®.
Single steel frame wall

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Linings</th>
<th>Thickness</th>
<th>Layers Side 1</th>
<th>Layers Side 2</th>
<th>STC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSS132</td>
<td>GIB® Standard Plasterboard</td>
<td>13mm</td>
<td>1</td>
<td>1</td>
<td>41</td>
</tr>
<tr>
<td>GSS133</td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>44</td>
</tr>
<tr>
<td>GSS134</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td>48</td>
</tr>
<tr>
<td>GNS104</td>
<td>GIB Braceline®/GIB Noiseline®</td>
<td>10mm</td>
<td>2</td>
<td>2</td>
<td>48</td>
</tr>
<tr>
<td>GNS132</td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
<td>43</td>
</tr>
<tr>
<td>GNS133</td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>45</td>
</tr>
<tr>
<td>GNS134</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td>52</td>
</tr>
</tbody>
</table>

**FRAMING**

Framing to comply with all relevant sections and clauses of the New Zealand Building Code. Minimum stud size 64 x 34 x 0.50mm BMT.

*Warning:* The STC performance figures listed in the table above are based on studs spaced at 600mm centres. Reducing stud centres to less than 600mm will significantly lower the STC performance of these systems.

**SOUND CONTROL INFILL**

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

**WALL LINING**

GIB® plasterboard as prescribed in the tables above.

Joints of the outer layer are generally offset 600mm from those of the inner layer. The outer layer may be fixed horizontally over vertical inner layer.

Full height sheets are used where possible. Where sheet end butt joints are unavoidable they must be formed over nogs with those of the outer layer offset from those of the inner layer. Sheet joints are touch fitted.

Where a Fire Resistance Rating (FRR) is required, refer to the GIB® Fire Rated Systems Manual for special fastener lengths and centres requirements.

**ACOUSTIC SEALANT**

A bead of GIB Soundseal® acoustic sealant is required around the perimeter of the framing (on single layers) and around the perimeter of the inner lining on double layers. The linings are then bedded onto the bead.

**FASTENING THE LINING**

Fasten the linings in accordance with the GIB® Site Guide. If an FRR is required refer to the relevant specification sheet in the GIB® Fire Rated Systems Manual for the correct fastener type and layout.

**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®.
Single timber frame wall

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Linings</th>
<th>Thickness</th>
<th>Layers Side 1</th>
<th>Layers Side 2</th>
<th>STC</th>
</tr>
</thead>
<tbody>
<tr>
<td>GST102</td>
<td>GIB® Standard Plasterboard 10mm</td>
<td>1</td>
<td>1</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>GST103</td>
<td>GIB® Standard Plasterboard 10mm</td>
<td>1</td>
<td>2</td>
<td>42</td>
<td></td>
</tr>
<tr>
<td>GST104</td>
<td>GIB® Standard Plasterboard 10mm</td>
<td>2</td>
<td>2</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>GST132</td>
<td>GIB® Standard Plasterboard 13mm</td>
<td>1</td>
<td>1</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>GST133</td>
<td>GIB® Standard Plasterboard 13mm</td>
<td>1</td>
<td>2</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>GST134</td>
<td>GIB® Standard Plasterboard 13mm</td>
<td>2</td>
<td>2</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>GNT102</td>
<td>GIB Braceline®/GIB Noiseline® 10mm</td>
<td>1</td>
<td>1</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>GNT103</td>
<td>GIB Braceline®/GIB Noiseline® 10mm</td>
<td>1</td>
<td>2</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>GNT104</td>
<td>GIB Braceline®/GIB Noiseline® 10mm</td>
<td>2</td>
<td>2</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>GNT132</td>
<td>GIB Braceline®/GIB Noiseline® 13mm</td>
<td>1</td>
<td>1</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>GNT133</td>
<td>GIB Braceline®/GIB Noiseline® 13mm</td>
<td>1</td>
<td>2</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>GNT134</td>
<td>GIB Braceline®/GIB Noiseline® 13mm</td>
<td>2</td>
<td>2</td>
<td>48</td>
<td></td>
</tr>
</tbody>
</table>

**FRAMING**

Framing to comply with all relevant sections and clauses of the New Zealand Building Code. Minimum stud size 70 x 45mm.

Warning: The STC performance figures listed in the table above are based on studs spaced at 600mm centres. Reducing stud centres to less than 600mm will significantly lower the STC performance of these systems.

**SOUND CONTROL INFILL**

Pink® Batts® R2.2 (90mm) glass wool insulation installed between the studs and nogs.

**WALL LINING**

GIB® plasterboard as prescribed in the tables above. Joints of the outer layer are generally offset 600mm from those of the inner layer. The outer layer may be fixed horizontally over vertical inner layer.

Full height sheets are used where possible. Where sheet end butt joints are unavoidable they must be formed over nogs with those of the outer layer offset from those of the inner layer. Sheet joints are touch fitted.

Where a Fire Resistance Rating (FRR) is required, refer to the GIB® Fire Rated Systems Manual for special fastener lengths and centres requirements.

**ACOUSTIC SEALANT**

A bead of GIB Soundseal® acoustic sealant is required around the perimeter of the framing (on the single layer side) and around the perimeter of the inner lining on the other side. The linings are then bedded onto the bead.

**FASTENING THE LINING**

Fasten the linings in accordance with the GIB® Site Guide. If an FRR is required refer to the relevant specification sheet in the GIB® Fire Rated Systems Manual for the correct fastener type and layout.

**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®.
Floor/ceiling — timber joists

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 30a</td>
<td>STC 53</td>
<td>Lining 2 x 13mm GIB® Standard Plasterboard</td>
</tr>
<tr>
<td></td>
<td>Rw 52</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 30/30/30</td>
<td>IIC* 42–65</td>
</tr>
</tbody>
</table>

### FLOOR FRAMING

Floor joists shall comply with NZS 3604. Joists shall be spaced at 600mm centres maximum and shall have a depth of 140mm minimum.

**Alternative Floor framing**

Use either Hyspan® or Hybeam® HJ series joists designed for strength and serviceability, no less than 150mm deep and spaced at no more than 600mm. Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

### FLOORING

Flooring shall be nominal 20mm particle board or 20mm oriented strand board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer’s specifications. Flooring sheet joints must have a tongue and groove jointer, or be formed over framing.

### GIB QUIET CLIP® AND BATTENS

The GIB Quiet Clip® shall be fastened to the joists at maximum 1200mm centres (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling battens. The battens shall be spaced at 600mm centres maximum.

### INSTALLING THE GIB QUIETCLIP®

Use 3 x 32mm x 8g GIB® Grabber® Self Tapping Wafer Head Screws. Insert the first screw into the middle rubber grommet, tighten enough to hold the GIB Quiet Clip® in place, adjust the clip to the correct height, insert the remaining two screws and tighten. Do not over tighten the screws to a point where the grommet is crushed. The screws should be tightened enough to allow the flexibility to remain in the connection between the grommet and the joists.

### SOUND CONTROL INFILL

Ceiling overlaid with Pink® Batt® Silencer® (100mm) glass wool insulation.

### CEILING LINING

2 layers of 13mm GIB® Standard Plasterboard fixed at right angles to the steel battens. Offset the joints of the outer layer by 600mm from those of the inner layer. All sheet end butt joints shall occur on the battens and are offset between the first and second layers. Sheet joints are touch fitted.

### FASTENING THE LINING

**Fasteners**

Inner layer: 25mm x 6g GIB® Grabber® Self Tapping Drywall Screws. Outer layer: 41mm x 6g GIB® Grabber® Self Tapping Drywall Screws.

**Fastener centres (both layers)**

200mm centres along each batten and at 100mm centres along sheet end butt joints. Place fasteners no closer than 12mm to the sheet edges.

### ACOUSTIC SEALANT

A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter.

### WALL/CEILING JUNCTIONS

The internal angle between the ceiling and walls are finished with 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

**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.

*Impact Insulation Class (IIC)*

A performance of IIC 42 is achieved with a bare floor. A performance of IIC 44 is achieved with a floor covering of 4mm cushion-backed vinyl. A performance of IIC 65 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

*Note: See page 90 for perimeter details.*
Floor/ceiling — timber joists

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 30a</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>STC 53</td>
<td>Lining</td>
</tr>
<tr>
<td></td>
<td>Rw 52</td>
<td>2 x 13mm GIB® Standard Plasterboard</td>
</tr>
<tr>
<td></td>
<td>FRR 30/30/30</td>
<td>LB/NLB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Load bearing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IIC* 42–65</td>
</tr>
</tbody>
</table>

- 2 layers of 13mm GIB® Standard Plasterboard
- GIB® Rondo® metal ceiling batten on GIB Quiet Clip®
- Pink® Batts® Silencer® (100mm)
**Floor/ceiling — timber joists**

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 30d</td>
<td>STC 51</td>
<td>Lining 1 x 13mm GIB Braceline®/GIB Noiseline®</td>
</tr>
<tr>
<td></td>
<td>Rw 51</td>
<td>Load bearing LB/NL</td>
</tr>
<tr>
<td></td>
<td>FRR 30/30/30</td>
<td>IIC* 41–65</td>
</tr>
</tbody>
</table>

**FLOOR FRAMING**

Floor joists shall comply with NZS 3604, be spaced at 600mm centres maximum and have a depth of 190mm minimum.

**Alternative Floor framing**

Use either Hyspan® or Hybeam® HJ series joists designed for strength and serviceability, no less than 150mm deep and spaced at no more than 600mm. Consult the joist manufacturer regarding construction of the solid blocking contained in the Floor/ceiling to wall junctions.

**FLOORING**

Flooring shall be nominal 20mm particle board or 20mm oriented strand board or minimum 17mm thick structural plywood fixed to the joists in accordance with the manufacturer's specifications. Flooring sheet joints must have a tongue and groove jointer, or be formed over framing.

**GIB QUIT CLIP® AND BATTENS**

The GIB Quiet Clip® shall be fastened to the joists at maximum 1200mm centres (and no less than 900mm centres) to support the GIB® Rondo® metal ceiling battens. The battens shall be spaced at 600mm centres maximum.

**INSTALLING THE GIB QUIETCLIP®**

Use 3 x 32mm x 8g GIB® Grabber® Self Tapping Wafer Head Screws. Insert the first screw into the middle rubber grommet, tighten enough to hold the GIB Quiet Clip® in place, adjust the clip to the correct height, insert the remaining two screws and tighten. Do not over tighten the screws to a point where the grommet is crushed. The screws should be tightened enough to allow the flexibility to remain in the connection between the grommet and the joists.

**SOUND CONTROL INFILL**

Ceiling overlaid with Pink® Batts® Silencer® (100mm) glass wool insulation.

**CEILING LINING**

1 layer of 13mm GIB Braceline®/GIB Noiseline® fixed at right angles to the battens.

All sheet end butt joints shall occur on the battens. Sheet joints are touch fitted. Where a Fire resistance rating is required all joints must be back-blocked in accordance with the publication entitled GIB® Site Guide.

*Note: If a Fire resistance rating is required, refer GBSC 30 in the publication GIB® Fire Rated Systems.*

**FASTENING THE LINING**

**Fasteners**

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

**Fastener centres**

200mm centres along each batten and 100mm centres along sheet end butt joints. Place fasteners no closer than 12mm to the sheet edges.

**ACOUSTIC SEALANT**

A bead of GIB Soundseal® acoustic sealant is required on the inner lining around the ceiling perimeter.

**WALL/CEILING JUNCTIONS**

The internal angle between the ceiling and walls are finished with 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.

*Impact Insulation Class (IIC)*

A performance of IIC 41 is achieved with a bare floor.

A performance of IIC 43 is achieved with a floor covering of 4mm cushion-backed vinyl.

A performance of IIC 65 is achieved with a floor covering of 40oz cut pile carpet loose laid on 8mm foam underlay.

*Note: See page 90 for perimeter details.*
## Floor/ceiling — timber joists

<table>
<thead>
<tr>
<th>Specification number</th>
<th>Performance</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBDFA 30d</td>
<td>STC 51</td>
<td>Lining 1 x 13mm GIB Braceline®/GIB Noiseline®</td>
</tr>
<tr>
<td></td>
<td>Rw 51</td>
<td>LB/NLB Load bearing</td>
</tr>
<tr>
<td></td>
<td>FRR 30/30/30</td>
<td>IIC* 41–65</td>
</tr>
</tbody>
</table>

![Diagram of noise control system](image)

1 layer of 13mm GIB Braceline®
GIB Noiseline®

GIB® Rondo® metal ceiling batten on GIB Quiet Clip®
Pink® Batts® Silencer® (100mm)
Introduction

Any penetration in a wall, floor, or ceiling (e.g. light fitting, power outlet, pipe, HVAC, door) has the potential to degrade noise control.

Fire Resistance Ratings

It is important to note that penetrations can also degrade fire resistance ratings. The degree of degradation depends on the specific system and components involved. If a fire resistance rating is required, the fire resistance rating of the penetration detail must be assessed. Refer to the relevant sections in this publication, GIB® Fire Rated Systems and GIB® Intertenancy Barrier Systems for Terrace Homes for appropriate penetration details.

How penetrations and fixings degrade noise control

Common ways penetrations degrade noise control are:

- Introduction of leaks e.g. minute air gaps through door jambs or light switches, or small gaps around pipes or through down lights.
- Replacing a portion of a GIB Noise Control® System with a material that has less noise control e.g. a door, flush box or down light into a wall or ceiling.
- Introduction of a structural connection between linings e.g. a service pipe connected to both sides of a wall.
- Placement of a sound source within a building system e.g. a water pipe in a wall or ceiling introduces a noise source into the cavity. Moreover, mounting the pipe on a frame or lining causes the lining to radiate sound directly which can amplify the sound.
- Mounting fixtures and appliances that are likely to be a source of noise to intertenancy walls e.g. telephones, TV sets, dryers, stereos and cupboards with doors.

To avoid the degradation of the noise control performance, locate appliances on external or other non-critical walls. When positioned on the floor, place them on resilient mountings.

To limit transmission of impact noise on walls, soft close drawers and cupboard doors are a simple and effective solutions for cabinetry.

Building service penetrations in central barrier walls

Walls with GIB Barrierline® and 13mm GIB Fyreline® central barriers allow installation of plumbing and electrical services in the cavities either side of the central barrier. Back-to-back services and penetrations are permitted within the limitations given below. A minimum of 10mm clearance must be provided between plumbing or electrical services and the central barrier.

Metal and PVC plumbing services up to 65mm in diameter do not need specialist fire-stopping where they penetrate the wall linings. Penetrations through wall linings must have neatly cut holes with 6mm maximum clearance around the plumbing service. Fill the gap with a general purpose flexible sealant.

Electrical services up to 90 x 50mm that penetrate wall linings do not need to be fire-stopped. Limit flush boxes to two per nominally 600mm wide framing cavity.

Suitable proprietary fire-stopping is required for wall lining penetrations larger than 90 x 50mm or 65mm diameter, and for penetrations through the GIB Barrierline® or 13mm GIB Fyreline® central barriers.

The importance of sound sealant

Even minute gaps degrade noise control. Think of filling a room with water; where the water can leak, so can sound.

To illustrate this, compare a wall measured in an acoustic laboratory before and after applying sealant to the perimeter. Even though the gaps were tiny (under bottom plates and around plasterboard fixed firmly against plates), without sound sealant the STC rating dropped 20 dB.

Mouldings (e.g. architraves), paint and wallpaper are generally not sufficient to stop sound leaks. GIB Soundseal® offers high mass and elasticity to accommodate building movement; do not use a general purpose gap filler.
Flush boxes

All timber and steel frame GIB® Central Barrier Walls allow for installation of electrical flush boxes either side of the central barrier, without any acoustic or fire sealing required. Back-to-back services and penetrations are permitted within limitations.

For all other wall types offset flush boxes in adjacent stud bays. Use GIB Soundseal® around the flush box perimeter, and continue insulation behind the box. Where this is not possible use surface mounted boxes. Use a fire rated sealant around the perimeter of a fire rated flush box.

The diagrams on the following page provide options for flush box placement, cavity insulation, and framing scenarios. Results are for single size flush boxes, no more than four each side of a wall. Note that some options degrade noise control. For single and staggered framed walls rated higher than STC 55 and double framed walls higher than STC 60 the expected degradation may be greater.

Back-to-back flush box remedy

Double frame walls:

A baffle may be used (see details on next page), when:

- The baffle does not bridge the two frames.
- Cavity insulation is placed:
  1. In the box created by the baffle, and
  2. Between the baffle and the lining on the other wall frame.

Down lights

It is best practice to avoid recessed lights in intertenancy ceilings. However, where necessary, recessed lights may be used with minimal impact provided:

- They are positioned less than one every 4m²,
- Insulation is used in the ceiling cavity,
- They are limited to 100mm x 100mm per downlight, and
- They are installed in accordance with the manufacturer’s specification and relevant standards with respect to ventilation requirements.
Flush boxes to be fire rated as required
GIB Soundseal® around flush boxes. Use a fire rated sealant around the perimeter of a fire rated flush box

Insulation
Flush boxes to be offset by at least one stud bay

BACK TO BACK Flush Box Detail

Insulation
GIB® plasterboard
Flush box to be fire rated as required on non-baffle side
GIB Soundseal® around flush boxes. Use a fire rated sealant around the perimeter of a fire rated flush box

Electrical fitting and flush box
GIB® plasterboard baffle of same thickness and type as wall lining

GIB® plasterboard
Timber nog
GIB® Soundseal® around flush boxes. Use a fire rated sealant around the perimeter of a fire rated flush box
Insulation
GIB® plasterboard baffle of same thickness and type as wall lining
Doors

The NZBC has no noise control requirements for doors, including doors from dwellings to corridors. However, doors usually limit the noise control performance of a system and a minimum performance is required to meet design acoustic comfort and satisfy occupants.

The noise control rating of a wall with a door will usually be limited by the performance of the door, as shown below. Here a 10m² wall is rated STC 55 (without a door) and a 1.8m² door assembly rated STC 30 (e.g., a solid core door with perimeter seals) is installed. The total STC for the wall with the door is only STC 36. The door has reduced the wall performance significantly. If the rating of the wall was increased to STC 65, the total rating would still be STC 36.

ACOUSTIC RATED WALL SYSTEM LIMITED BY DOOR PERFORMANCE

<table>
<thead>
<tr>
<th>Door and wall area (m²)</th>
<th>36mm hollow core door — no gaps = STC 18</th>
<th>36mm solid core door with seals = STC 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>24</td>
<td>34</td>
</tr>
<tr>
<td>10</td>
<td>25</td>
<td>36</td>
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<tr>
<td>15</td>
<td>27</td>
<td>38</td>
</tr>
<tr>
<td>20</td>
<td>28</td>
<td>39</td>
</tr>
</tbody>
</table>

The table above provides examples of how combining different doors and walls affects STC. Wall size relative to door size can make a modest difference.

Therefore, it is essential to select a door assembly consistent with the design comfort level.

A range of door options are:

- Solid core — seals, STC ~ 28 to 32 suitable with entry level noise control walls.
- Double door set, STC ~ 45 to 50 pairs of back-to-back doors (solid core with seals) separated by 30mm or more, with sound absorbing material on one face.
- Proprietary noise control doors, STC ~ 36 to 50.
- Sound lobby, STC ~ 50+. Usually comprises two solid doors with seals separated by a small room. Note: Where sound passes through a door, along a corridor, and through another door there is essentially a sound lobby.

SOLID CORE DOOR SYSTEM EXAMPLE

- GIB Soundseal®
- Planted Stop
- Solid Core door leaf 18kg/m²
- Wedge or packers
- Proprietary door seal
- Door jamb
- 75mm (R1.8) sound control infill

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Stud and GIB Rail®

**GIB Rail®**

Set lining screws to the side of the studs and nogs, they must not touch or penetrate the framing.

Timber Stud

32mm x 8g GIB® Grabber® wafer head screw

**GIB® Noise Control Systems**

Stud and Resilient Rail Wide

**Stud and ST-001 Clip**

Rondo® 308 or USG FC37 furring channel

Set lining screws to the side of the studs and nogs, they must not touch or penetrate the framing.

ST-001 Clip fixed with a 63mm x 8g self tapping screw

**GIB® Noise Control Systems**

Ceiling lining GIB Soundseal®

Bottom plate GIB Soundseal®

GIB Rail® (bottom rail only may be fixed upside down for ease of attachment)

GIB Soundseal® attachment

75mm max.

600mm centres

50mm max.

GIB Rail® (bottom rail only may be fixed upside down for ease of attachment)
SUSPENDED

For superior low frequency performance, substitute the GIB® Direct Fix Clip with the GIB Quiet Clip®. The GIB Quiet Clip® offers up to 8 dB improved attenuation in the frequency range 50Hz to 125Hz. As foot fall and other common domestic sounds are often in this range, the GIB Quiet Clip® offers significant advantage over direct fix systems.

To support the battens, the clip shall be fastened to the joists at 1200mm centres maximum and no less than 900mm centres.
**DETAIL AT EXTERNAL TIMBER FRAME WALL (PLAN VIEW)**

- **GIB® plasterboard**
- **Wall underlay**
- **GIB Barrierline®**
- External wall cladding to comply with NZBC E2
- Fix solid H3.1 treated timber batten to GIB® Rondo® 140 Perimeter Channel only. Timber batten for fire stopping, not for cladding fixing. Do not connect timber batten to timber frames on each side
- Control joint opposite GIB Barrierline®. Detail by cladding supplier
- GIB® Rondo® 140 Perimeter Channel vertically at outer ends of wall
- GIB® Wall Clips or GIB® Wall Straps at wall ends both sides
- GIB® Wall Clips at each GIB® H-Stud, both sides
- Timber wall framing

**INTER TENANCY WALL PROJECTION AT EXTERNAL TIMBER FRAME WALL (PLAN VIEW)**

- **GIB® plasterboard**
- **Wall underlay**
- **GIB Barrierline®**
- External wall cladding to comply with NZBC E2
- Fix solid H3.1 treated timber batten to GIB® Rondo® 140 Perimeter Channel only. Timber batten for fire stopping, not for cladding fixing. Do not connect timber batten to timber frames on each side
- Control joint opposite GIB Barrierline®. Detail by cladding supplier
- GIB® Rondo® 140 Perimeter Channel vertically at outer ends of wall
- GIB® Wall Clips or GIB® Wall Straps at wall ends both sides
- GIB® Wall Clips at each GIB® H-Stud, both sides
- Timber wall framing
Fill void between battens with mineral wool or ceramic fibre cavity insulation, 300mm min. width, 40kg/m² min. density.

Flexible fire retardant underlay.

Roofing material.

Nominal 10mm gap between top of GIB® Barrierline® and roof batten.

GIB® Wall Clips at each GIB® H-Stud both sides of wall.

Continuous GIB® Rondo® 140 Perimeter Channel fixed back to back at 600mm centres.

Roof framing.

GIB Clip®.

GIB® plasterboard.

Required insulation minimum Pink® Batts® R2.2 (115mm) glasswool.

GIB® Rondo® 340 Perimeter Channel.

GIB® Wall Clips at each GIB® H-Stud both sides of wall.

GIB® Barrierline®.

16mm GIB Fyreline® fixed to GIB Barrierline® with chipboard screws at 400mm max. centres.

9mm minimum gap.

25 mm ~40mm gap each side of wall.

200mm minimum.

Pink® Batt R2.2 (115mm) glasswool.
**DETAIL AT RETURN IN EXTERNAL BRICK VENEER WALL (PLAN VIEW)**

- **GIB® Rondo® 140 Perimeter Channel**
- **GIB® Barrierline®**
- **GIB® Wall Strap**
- **GIB® Wall Clips at each GIB® H-Stud, both sides**

**GIB® Wall Clips or GIB® Wall Straps at wall ends both sides**

**Fit solid H3.2 treated timber batten to gap. Fix batten to GIB® Rondo® 140 Perimeter Channel only. Do not connect timber batten to timber frames on each side**

**DPC. Minimum width 100mm**

**Wall underlay**

**Brick veneer**

**GIB® Barrierline®**

**Timber wall framing**

**GIB® Wall Clips at each GIB® H-Stud, both sides**

**GIB® plasterboard**

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**DETAIL AT EXTERNAL BRICK VENEER WALL (PLAN VIEW)**

- **GIB® Rondo® 140 Perimeter Channel**
- **GIB® Barrierline®**
- **GIB® Wall Strap**

**GIB® Wall Clips or GIB® Wall Straps at wall ends both sides**

**Fit solid H3.2 treated timber batten to gap. Fix batten to GIB® Rondo® 140 Perimeter Channel only. Do not connect timber batten to timber frames on each side**

**Control joint opposite GIB® Barrierline®. Detail by cladding supplier**

**DPC. Minimum width 100mm**

**Brick veneer**

**GIB® Barrierline®**

**GIB® plasterboard**

**GIB® Wall Clips at each GIB® H-Stud, both sides**
DETAIL AT ROOF/CEILING AND PARAPET (END ELEVATION)

- Fill void with mineral wool or ceramic fibre cavity insulation, 40kg/m² min. density
- GIB® Wall Clips at each GIB® H-Stud both sides of wall
- Continuous GIB® Rondo® 140 Perimeter Channel fixed back to back at 600mm centres
- GIB® Rondo® 140 Perimeter Channel at top of GIB® Barrierline®
- Parapet cladding detail to comply with NZBC E2
- 9mm minimum gap
- Gutter detail to comply with NZBC E2
- Metal angle

DETAIL FOR JUNCTION WITH NON FIRE-RATED WALL (PLAN VIEW)

- GIB® plasterboard
- GIB® Wall Clips at each GIB® H-Stud both sides of wall
- GIB® Barrierline®
- Timber wall framing

Note: As an alternative install GIBFix® Angles at the wall junction. Refer to the GIBFix® Framing System Manual for more details.
**FIXING DETAIL FOR 16MM GIB FYRELINE®**

16mm GIB Fyreline® fixed to GIB Barrierline® with 40mm x 8g chipboard screws

25mm GIB Barrierline®, 16mm GIB Fyreline® fixed to GIB Barrierline® with 40mm x 8g chipboard screws

**ROOF VOID DETAIL WITH HORIZONTAL SHEETING (SIDE ELEVATION)**

- Leave 10mm gap between top of GIB Barrierline® and underside of battens and fill all gaps with mineral wool or ceramic fibre cavity insulation.
- Roofing material: GIB® Rondo® 140 Perimeter Channel
- GIB Barrierline® within framing formed with GIB® Rondo® 140 Perimeter Channel
- GIB® H-Studs at 600mm max. centres for eaves over 600mm high or over 1200mm wide
- GIB® Wall Clips each side of fire barrier fixed to GIB® Rondo® 140 Perimeter Channel and ends of rafters
- Screw fix all connections
- Eaves lining: Fit solid H3.2 treated timber batten to gap at end of wall. Fix batten to GIB® Rondo® 140 Perimeter Channel only
- Wall underlay: GIB® Intertenancy Barrier System
GIB® Intertenancy Barrier Systems

ROOF VOID DETAIL WITH HORIZONTAL SHEETING (SIDE ELEVATION)

- GIB® Wall Clips or GIB® Wall Straps at 600mm max. centres, both sides of wall
- GIB® Barrierline® installed horizontally
- Nominal 10mm gap between top of GIB® Barrierline® and roof batten
- Back to back GIB® Rondo® 140 Perimeter Channels installed horizontally
- Trimmer placed in trusses each side of wall to allow fixing of GIB® Wall Clips
- 16mm GIB® Fyreline® fixed to GIB® Barrierline® with chipboard screws at 400mm x 400mm max. centres
- GIB® Barrierline® installed vertically
- Wall framing
- GIB® Barrierline® installed vertically
- Truss chord
- Truss bottom chord

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Issue: 1601
Scale: 1:10
Date: CBI06619 July 2016
Reference: CBI066 Roof Void Detail with Horizontal Sheeting (Side Elevation)

For more info: GIB® HELPLINE 0800 100 442 OR GIB.CO.NZ
STEEL FRAME GIB BARRIERLINE® WALL CORNER

- **GIB® Rondo® 140 Perimeter Channel** at both ends of central barrier
- **GIB® H-Stud**
- **GIB® H-Stud**
- **GIB® Barrierline®**
- Refer to the System Specification Sheet for wall lining and insulation
- Minimum 20mm gap each side

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STEEL FRAME GIB BARRIERLINE® WALL TO SINGLE STEEL FRAME WALL

- **End stud screwed into locking stud or nogs at 800mm centres**
- **Internal GIB® plasterboard wall**
- **GIB® H-Stud**
- **GIB® Barrierline®**
- **Refer to the System Specification Sheet for wall lining and insulation**
- Minimum 20mm gap each side
STC rating may degrade if concrete wall less than 150mm thick

GIB® Rondo® 140 Perimeter Channel fixed to concrete with steel anchors at 150mm max. centres from ends and 600mm max. centres between

Refer to the System Specification Sheet for wall lining and insulation

Seal GIB® Rondo® 140 Perimeter Channel to concrete on one side with fire/acoustic sealant

Minimum 20mm gap each side

GIB® H-Stud

GIB Barrierline®

Fix solid H3.1 treated timber batten to GIB® Rondo® 140 Perimeter Channel only. Timber batten for fire stopping, not for cladding fixing. Do not connect timber batten to steel frames on each side

Control joint opposite GIB Barrierline®. Detail by cladding supplier

External wall cladding to comply with NZBC E2

Wall underlay
GIB® Barrierline®

GIB® Rondo® 140 Perimeter Channel fixed to concrete slab with steel anchors at 150mm max. centres from ends and 600mm max. centres between.

Refer to the System Specification Sheet for wall lining and insulation.

GIB® Rondo® 140 Perimeter Channel fixed to concrete on one side with fire/acoustic sealant.

GIB® Rondo® NZ18 metal angle or GIBFix® metal angle fixed to concrete slab with steel anchors at 150mm max. centres from ends and 600mm max. centres between.

GIB® Soundseal®

Minimum 20mm gap each side.

STC rating may degrade if concrete floor less than 150mm thick.

Minimum 20mm gap each side.

STC rating may degrade if concrete floor less than 150mm thick.

Continuous plasterboard strips as per wall lining.

Refer to the System Specification Sheet for wall lining and insulation.
STC rating may degrade if concrete floor less than 150mm thick. Minimum 20mm gap each side.

Deflection head gap
- GIB® Rondo® NZ18 metal angle or GIBFix® metal angle sealed to GIB Barrierline® one side with fire/acoustic sealant

Continuous GIB® Rondo® 140 perimeter channel fixed back to back at 600mm centres

GIB® Wall Clips at each GIB® H-Stud both sides of wall fixed to steel or timber nogs

Steel wall framing

STC rating may degrade if concrete floor less than 150mm thick.
STAGGERED STUD STEEL FRAME BARRIER WALL CORNER

13mm GIB Fyreline® central barrier

End stud screwed into locking stud or nog at 800mm centres

Refer to the System Specification Sheet for wall lining and insulation

STAGGERED STUD STEEL FRAME BARRIER WALL TO SINGLE STEEL FRAME BARRIER WALL

13mm GIB Fyreline® central barrier

End stud screwed into locking stud or nog at 800mm centres

Refer to the System Specification Sheet for wall lining and insulation
STAGGERED STUD STEEL FRAME BARRIER WALL TO CONCRETE OR FILLED MASONRY

- 13mm GIB Fyreline® central barrier
- GIB Soundseal®
- Refer to the System Specification Sheet for wall lining and insulation
- Studs at 600mm centres both sides of the central barrier. Offset studs by 300mm.
- STC rating may degrade if concrete wall less than 150mm thick

STAGGERED STUD STEEL FRAME BARRIER WALL TO EXTERNAL WALL

- 13mm GIB Fyreline® central barrier
- Wall underlay
- GIBFix® angle at corner
- Fix solid H3.1 treated timber batten to steel studs. Timber batten for fire stopping, not cladding fixing.
- Control joint opposite GIB Fyreline®. Detail by cladding supplier
- External wall cladding to comply with NZBC E2
- GIBFix® angle at corner
STAGGERED STUD STEEL FRAME BARRIER WALL BASE DETAIL AT SLAB

13mm GIB Fyreline® central barrier

Refer to the System Specification Sheet for wall lining and insulation

STC rating may degrade if concrete floor less than 150mm thick

STAGGERED STUD STEEL FRAME BARRIER WALL TO SUSPENDED SLAB HEAD DETAIL

Deflection head gap

STC rating may degrade if concrete floor less than 150mm thick

Continuous plasterboard strips as per wall lining

Deflection head gap

13mm GIB Fyreline® central barrier

Refer to the System Specification Sheet for wall lining and insulation
DOUBLE TIMBER FRAME WALL TO EXTERNAL WALL

1. **External wall to comply with NZBC E2**
2. **Do not bridge with nogs or dwangs**
3. **Insulation**
4. **GIB® plasterboard**
5. **Pink® Batts® R2.2 (90mm) glass wool insulation**

DOUBLE TIMBER FRAME WALL TO DOUBLE TIMBER FRAME WALL

1. Fire stopping full width of stud bay (Mineral wool or ceramic fibre)
2. **GIB® plasterboard**
3. **GIB® Soundseal®**
4. **GIB® plasterboard**

GNS200

GNS201
GIB® plasterboard

GIB Soundseal®

Pink® Batts® R2.2 (90mm) glass wool insulation

Note: If the FRR of the double frame wall is more than 30 minutes greater than the FRR of the single frame wall, the double linings on the double frame wall must continue through as shown here.

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Issue: 1 | 2
Scale: 1 : 5
Date: April 2017
Reference: CBI01128
File: 1601

GIB® Noise Control Systems

GIB® HELPLINE 0800 100 442 OR GIB.CO.NZ FOR MORE INFO

SEPTEMBER 2017 GIB® HELPLINE 0800 100 442 OR GIB.CO.NZ FOR MORE INFO GIB NOISE CONTROL® SYSTEMS 107
DOUBLE TIMBER FRAME WALL DETAILS

DOUBLE TIMBER FRAME WALL INTERNAL/EXTERNAL CORNER

Unit layout

STC rating may degrade if concrete floor is less than 150mm thick

GNS204

DOUBLE TIMBER FRAME WALL DEFLECTION HEAD DETAIL

Unit layout

STC rating may degrade if concrete floor is less than 150mm thick

GNS205
DOUBLE STEEL FRAME WALL DEFLECTION HEAD DETAIL

- STC rating may degrade if concrete floor is less than 150mm thick.
- Continuous plasterboard strips as per wall lining.
- Wall frame top channel.
- Steel Stud.
- GIB® plasterboard.
- Insulation in one frame cavity only.

DOUBLE STEEL FRAME WALL TO DOUBLE STEEL FRAME WALL

- Studs at 600mm centres.
- GIB® plasterboard.
- Pink® Batts® BIB (75mm) glass wool insulation.
- End stud screwed to the locking stud.
SINGLE TIMBER FRAME WALL TO SINGLE TIMBER FRAME/GIB RAIL® WALL

- **Note:** Wall junction must not occur on the rail side or the wall. STC performance will be reduced by up to 5 STC points.

SINGLE TIMBER FRAMES TO SINGLE TIMBER/GIB RAIL® WALL

- **Note:** If the FRR of the double frame wall is more than 30 minutes greater than the FRR of the single frame wall, the double linings on the double frame wall must continue through as shown here.
**SINGLE STEEL FRAMES TO SINGLE STEEL/GIB RAIL® WALL**

Unit layout

End stud screwed to GIB Rail®

GIB® plasterboard

Care must be taken when lining this wall. Do not force linings into place as it may compress the GIB Rail®

GIB® plasterboard

GIB® plasterboard

End stud screwed to locking stud

Pink® Batts® BIB (75mm) glass wool insulation

Studs at 600mm centres

GIB® plasterboard

**SINGLE STEEL FRAME/GIB RAIL® WALL INTERNAL CORNER**

Unit layout

GIB® plasterboard

Pink® Batts® BIB (75mm) glass wool insulation

GIB® plasterboard

GIB® plasterboard

GIB® plasterboard

GIB® Soundseal®

Screw fix at 300mm centres

GIBFix® Angle

GIB Rail®
SINGLE STEEL FRAME/WALL DETAILS

GIB® Noise Control Systems

GIB® Single Steel Frame/GIB Rail® - External Corner

CBI10528 April 2017

1601

CBI105 Resilient Rail External Corner

Unit layout

Screw fix at 300mm centres

GIBFix® Angle

GIB® plasterboard

Pink® Batts® BIB (75mm) glass wool insulation

GIB Rail®

GIB® Soundseal®

GIB® plasterboard
**GIB® RONDO® QUIET STUD® DETAILS**

**GIB® RONDO® QUIET STUD® T-INTERSECTION**

Unit layout

![Diagram of GIB® Rondo® Quiet Stud® T-intersection]

- GIB® plasterboard
- GIB® Rondo® Quiet Stud®
- Pink® Batts® R2.2 (90mm) glass wool insulation
- GIB® Soundseal®

Minimum 10mm gap

**GIB® RONDO® QUIET STUD® CORNER**

Unit layout

![Diagram of GIB® Rondo® Quiet Stud® corner]

- GIB® plasterboard
- Pink® Batts® R2.2 (90mm) glass wool insulation
- GIB® Rondo® Quiet Stud®

Gap to outer lining

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Date:

Reference:

File:
**GIB® RONDO® QUIET STUD® BOTTOM CHANNEL DETAIL**

![Diagram of bottom channel detail]

- GIB® plasterboard
- Pink® Batts® R2.2 (60mm) glass wool insulation
- GIB Soundseal®
- Bottom channel
- GIB® Soundseal®

**GIB® RONDO® QUIET STUD® DEFLECTION HEAD DETAIL**

![Diagram of deflection head detail]

- Continuous plasterboard strips as per wall lining
- Top channel
- 15mm expansion gap
- GIB® plasterboard
- Pink® Batts® R2.2 (60mm) glass wool insulation
- GIB® plasterboard
### STEEL NOG

- Track flanges cut with 3mm minimum clearance to each side of stud
- Two rivets to each stud
- GIB® Rondo® Quiet Stud®
- 90x30mm Rondo® Channel

### TIMBER NOG

- 2 x 20mm max length wafer head screws to face
- 4mm minimum gap to stud
- 2 x 25mm wafer head screws to end of nog
- 18mm maximum thickness ply or timber nog
- 4mm minimum gap to stud
FLOOR/CEILING WITH BATTENS TO DOUBLE TIMBER FRAME WALL (JOISTS PERPENDICULAR)

Unit layout

FLOOR/CEILING WITH BATTENS TO DOUBLE TIMBER FRAME WALL (JOISTS PARALLEL)

Unit layout
SPLIT LEVEL FLOOR/CEILINGS TO DOUBLE TIMBER FRAME WALL

- Standard floor ceiling system
- GIB® plasterboard
- GIB® Soundseal®
- Pink® Batts® R2.2 (90mm) glass wool insulation
- Fire Stopping (Mineral wool or ceramic fibre)
- Solid blocking

Unit layout

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GNS304

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Date:

Reference

File:

1 : 5

GIB® Noise Control Systems

Junctions Split Level Floor/Ceilings to Double Timber Frame Wall CBI02628 April 2017

1601

CBI026 Junctions Split Level Floor/Ceilings to Double Timber Frame Wall

GIB NOISE CONTROL® SYSTEMS GIB® HELPLINE 0800 100 442 OR GIB.CO.NZ FOR MORE INFO SEPTEMBER 2017

GIB NOISE CONTROL® SYSTEMS GIB® HELPLINE 0800 100 442 OR GIB.CO.NZ FOR MORE INFO SEPTEMBER 2017
FLOOR/CEILING DETAILS

FLOOR/CEILING TO EXTERNAL WALL

- GIB Soundseal®
- GIB-Cove® or square stopped
- GIB® Clip®
- GIB® Rondo® ceiling batten
- GIB® plasterboard
- Insulation
- R1.8 (75mm) Pink® Batts® glass wool insulation
- GIB® Fix® Angle

External wall to comply with NZBC E2
**SINGLE FRAME FIRE RATED WALL TO ROOF CAVITY**

1. **Roof cladding**
2. **Fire stopping (mineral wool or ceramic fibre)**
3. **Required fire rated construction in the roof cavity. Refer to “GIB® Fire Rated Systems”**
4. **Roof truss**
5. **GIB® Rondo® ceiling batten**
6. **GIB® plasterboard**
7. **GIB-Cove® or square stopped**
8. **10mm gap filled with fire/acoustic sealant**
9. **Pink® Batts® R2.2 (90mm) glass wool insulation**
10. **GIB Rail®**

**DOUBLE FRAME FIRE RATED WALL TO ROOF CAVITY**

1. **Roof cladding**
2. **Fire stopping (mineral wool or ceramic fibre)**
3. **Required fire rated construction in the roof cavity. Refer to “GIB® Fire Rated Systems”**
4. **Roof truss**
5. **Sub frame**
6. **GIB® plasterboard**
7. **GIB® Rondo® ceiling batten**
8. **GIB® Cove® or square stopped**
9. **Pink® Batts® R2.2 (90mm) glass wool insulation**

**GNS307**

**GNS308**
SYSTEM COMPONENTS

GIB BARRIERLINE®
- Glass fibre reinforced core encased in a heavy duty liner board.
- 25mm thickness (approximate mass 20.0kg/m²).
- 3000mm long, 600mm wide.
- Modified core for additional water and mould resistance.
- Square edges.

GIB BRACELINE®/GIB NOISELINE®
- Dual purpose board that provides high-level bracing performance when used in GIB EzyBrace® Systems and helps reduce noise transmission through walls and ceilings.
- Tapered edges to assist in producing a smooth, even and continuous surface once jointed.
- High density, glass fibre reinforced core.
- 10mm and 13mm thickness (approximate mass 9.0kg/m² and 12.0kg/m²).

GIB® STANDARD PLASTERBOARD
- Tapered edges to assist in producing smooth, even and continuous surface once jointed.
- Square edges and square edge/tapered edge available.
- Glass fibre reinforced core.
- 10mm and 13mm thickness (approximate mass 6.5kg/m² and 8.5kg/m²).

GIB® RONDO® METAL CEILING BATTEN
Forms a strong and stable substrate for ceilings lined with GIB® plasterboard. Compatible with GIB Quiet Clip®.

GIB FYRELINE®
- High density modified core resists exposure to fire longer than regular plasterboard.
- Tapered edges to assist in producing a smooth even and continuous surface once jointed.
- 13mm and 16mm thickness (approximate mass 10.5kg/m² and 14.5kg/m²).

GIB RAIL®
Improves the STC rating of timber and steel single frame walls.
**GIB QUIET CLIP®**
Provides additional noise attenuation when used in noise control floor/ceiling assemblies. Compatible with GIB® Rondo® metal ceiling batten.

**GIB® H-STUD**
Supports GIB Barrierline® at all vertical joints.

**ST-001**
Improves the STC rating of timber and steel single frame walls. Compatible with Rondo® 308 and USG FC37 furring channel.

**GIB® RONDO® 140 PERIMETER CHANNEL**
Supports GIB Barrierline® top and bottom and at wall ends.
GIB® WALL CLIP
Provides lateral support to both sides of the GIB® H-stud.

GIB® WALL STRAP
Provides lateral support to the GIB® Rondo® 140 Perimeter Channel at wall ends.

GIB® QUIET TIE®
Provides a structural connection between the frames of double stud walls, whilst maintaining the STC rating of the system.
SYSTEM COMPONENTS

PINK® BATTS® R1.2 GLASS WOOL INSULATION
— Made from over 80% recycled glass.
— Thickness 90mm.
— Nominal total area per pack 13.4m².
— Each section pre-cut to 1140 x 560mm.

PINK® BATTS® BIB R1.8 GLASS WOOL INSULATION
— Made from over 80% recycled glass.
— Thickness 100mm.
— Nominal total area per pack 19.2m².
— Each roll pre-cut to 8000 x 1200mm.

PINK® BATTS® R2.2 GLASS WOOL INSULATION
— Made from over 80% recycled glass.
— Thickness 50mm.
— Nominal total area per pack 17.0m².
— Each section pre-cut to 1220 x 580mm.

PINK® BATTS® SILENCER® GLASS WOOL INSULATION
— Made from over 80% recycled glass.
— Thickness 75mm.
— Nominal total area per pack 19.2m².
— Each section pre-cut to 1140 x 560mm.
GIB® Quiet Ties® have been designed to provide connection between the studs and plates of double timber frame walls, whilst maintaining the system’s published noise control STC/Rw rating.

GIB® Quiet Ties® are not suitable for use with double timber frame wall systems that incorporate a GIB Barrierline® central barrier.

If connections are required to resist a lateral force of 0.5kPa, as specified in New Zealand Building Code Clause B1/VM1, then the recommended spacing is one GIB® Quiet Tie® at no more than 1.8 metres spaced horizontally along the suspended floor wall bottom plate (as illustrated), for an inter-storey height of 3 metres. GIB® Quiet Ties® can also be used at roof level if no other connections exist, such as continuous roofing iron.

When they are required to achieve lateral connection between frames as part of a specific engineering design, the Structural Engineer shall determine the appropriate spacing of GIB® Quiet Ties®. The GIB® Quiet Tie® has a design capacity of 4 kN in tension and 2 kN in compression (compression loads will also be partially absorbed by mineral fibre packing between frames at floor levels).

GIB® Quiet Tie® is distributed by MiTek New Zealand. Fastening instructions are included in the packaging.
**Acoustic** Concerned with sound or the sense of hearing, including how sound behaves within a room or between rooms.

**Airborne sound** Sound energy transmitted through the air.

**ASTM** American Society for Testing and Materials.

**BIB** Building Insulation Blanket.

**BMT** Bare Metal Thickness. The base metal thickness of light gauge, galvanised steel profiles.

**dB** An abbreviation for decibel. A decibel is the unit of measure for sound pressure level. A decibel is a tenth of a Bel.

**DPC** Damp Proof Course. Used to stop the transfer of moisture.

**FIIC** Field Impact Insulation Class: In essence, an IIC measurement undertaken on a building site.

**Flanking** Sound transmission to a receiving room by a path other than the building element of interest.

**FSTC** Field Sound Transmission Class: In essence, a STC measurement undertaken on a building site.

**FRR** Fire Resistance Rating. The term used to describe the minimum fire resistance of primary and secondary elements as determined in the standard test for fire resistance or in accordance with a specific calculation method verified by experimental data from standard fire resistance tests. It comprises three numbers giving the time in minutes for which each of the criteria (structural adequacy, integrity and insulation) are satisfied. It is always presented in that order expressed as xx/yy/zz.

**IIC** Impact Insulation Class: A rating for the impact sound insulation capability of a Floor/ceiling system in a laboratory. The measurement range is 100 to 3150Hz. Generally, the higher the rating the better the performance.

**Impact sound** Sound energy generated by striking a floor or wall surface (e.g. footsteps, closing a door, dropping an object, etc.). This energy becomes structure-borne sound that then re-radiates into neighbouring spaces as audible sound.

**ISO** Abbreviation for ‘International Standards Organisation’.

**LB** Load bearing. Indicates that the element being referred to can resist a structural load.

**Noise** Sound that is unwanted by the listener.

**Noise control system — intertenancy** A building element suitable for use as a separation between two tenancies.

**Noise control system — sub-intertenancy** A building element suitable for use within a single tenancy.

**NLB** Non load bearing. Indicates that the element being referred to cannot resist any structural load.

**NZBC** New Zealand Building Code.

**Rw** Weighted Sound Reduction Index: A rating of airborne sound reduction through a building element in a laboratory. Rw is an ISO rating and is derived from transmission loss measurements between 100 to 3150Hz. Generally, the higher the rating the better the performance.

**Sound** A travelling vibration through an elastic medium that may be detected by a hearing system.

**STC** Sound Transmission Class: A rating of airborne sound reduction through a building element in a laboratory. STC is an ASTM rating and is derived from transmission loss measurements between 125 to 4000Hz. Generally, the higher the rating the better the performance.

**Structure-borne sound** Sound energy transmitted through a solid (e.g. along joists or service pipes).

**Transmission loss** The measure of a wall or floor system's ability to attenuate the transfer of sound — specified at each octave or third-octave frequency band.
GIB Noise Control® Systems, September 2017

Winstone Wallboards Ltd accepts no liability if the GIB Noise Control® Systems and junction details are not installed in strict accordance with instructions contained in this publication.

USE ONLY THE CURRENT SPECIFICATION
This publication may be superseded by a new publication. Winstone Wallboards accepts no liability for reliance upon publications that have been superseded. You should check the GIB® website to ensure you are using the current publication. If you are unsure whether this is the current publication, simply call the GIB® Helpline on 0800 100 442.

SUBSTITUTION
GIB Noise Control® Systems have been specifically designed and tested to achieve the listed STC, Rw and FRR stated for each system. To maintain the GIB® Product and System Warranty, all system components detailed in this publication must be used when specifying and installing GIB Noise Control® Systems. You should check the GIB® website to ensure you are using the current publication.

TRADEMARKS
The names GIB®, GIB Fyreline®, GIB Ultraline®, GIB Toughline®, GIB Braceline®/GIB Noiseline®, GIB Aqualine®, GIB Nail®, GIB Tradeset®, GIB Plus 4®, GIB-Cove®, GIB Lite Blue®, GIB Fix®, GIB Quiet Stud®, GIB Rail®, GIB Barrierline®, GIB Soundseal®, GIB Clip®, the colour mauve for GIB Toughline®, the colour blue for GIB Braceline®, the colour pink for GIB Fyreline®, the colour green for GIB Aqualine®, and the shield device are registered trademarks of Fletcher Building Holdings Limited.

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COUNTRY OF ORIGIN
We make GIB® plasterboard in New Zealand*, for New Zealand conditions, giving you 100% certainty.

*Note: GIB Barrierline® plasterboard is manufactured to Winstone Wallboards’ specific specification from a reputable overseas manufacturer.

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