GypWall QUIET SF is a non-loadbearing partition which provides very high levels of sound insulation and is capable of exceeding national Building Regulations Part E separating wall standards. The partition is specified in many types of buildings, both new-build and refurbishment.
### Key facts

- Single stud framework, maximising available floor space
- Resilient bars provide acoustic separation
- Sound insulation up to $R_w$ 65dB to meet separating wall requirements
- Satisfies BS 5234 strength and robustness requirements for Severe Duty
- 60 - 120 minutes fire resistance
- Accommodates services within stud cavity
- Durable, high performance Gyproc linings

**Diagram:**

1. Gypframe 'C' Stud
2. Gypframe RB1 Resilient Bar
### Components

#### Gyproc board products

<table>
<thead>
<tr>
<th>Gyproc WallBoard $^2$</th>
<th>Thickness 12.5, 15mm</th>
<th>200m$^2$ per layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 1200mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gyproc SoundBloc $^2$</th>
<th>Thickness 12.5, 15mm</th>
<th>200m$^2$ per layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 1200mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gyproc Plank</th>
<th>Thickness 19mm</th>
<th>200m$^2$ per layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 600mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gyproc DuraLine $^2$</th>
<th>Thickness 15mm</th>
<th>200m$^2$ per layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 1200mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gyproc FireLine $^2$</th>
<th>Thickness 15mm</th>
<th>200m$^2$ per layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width 1200mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Gyproc metal products

<table>
<thead>
<tr>
<th>Gypframe 70 S 50 'C' Stud</th>
<th>Length 2400, 2700, 3000, 3600, 4200mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypframe 92 S 50 'C' Stud</td>
<td>Length 3600, 4200mm</td>
</tr>
<tr>
<td>Gypframe 146 S 50 'C' Stud</td>
<td>Length 3000, 3600, 4200mm</td>
</tr>
<tr>
<td>Gypframe Standard Floor &amp; Ceiling Channels</td>
<td></td>
</tr>
<tr>
<td>72 C 50</td>
<td></td>
</tr>
<tr>
<td>94 C 70</td>
<td></td>
</tr>
<tr>
<td>148 C 70</td>
<td></td>
</tr>
<tr>
<td>All channels are available in 3600mm only.</td>
<td></td>
</tr>
</tbody>
</table>

1. Quantities are based on 100m$^2$ of straight partition with a double layer of board each side. Quantities are approximate and for guidance only; no allowance has been made for waste, openings, abutments, etc. Refer to Section 11 – Quantity take-off details.

2. Moisture resistant boards are specified in intermittent wet use areas e.g. shower cubicles.
<table>
<thead>
<tr>
<th>Gypframe metal products (cont’d)</th>
<th>Take-off quantities¹</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gypframe 99 FC 50 Fixing Channel</strong>&lt;br&gt;Length 2400mm</td>
<td>as required</td>
</tr>
<tr>
<td><strong>Gypframe 150 FC 90 Fixing Channel</strong>&lt;br&gt;Length 1194mm</td>
<td>as required</td>
</tr>
<tr>
<td><strong>Gypframe RB1 Resilient Bar</strong>&lt;br&gt;Length 3000mm</td>
<td>210m per side</td>
</tr>
<tr>
<td><strong>Gypframe GFS1 Fixing Strap</strong>&lt;br&gt;Length 2400mm</td>
<td>as required</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fixing and finishing products</th>
<th>Take-off quantities¹</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gyproc Drywall Screws</strong>&lt;br&gt;For fixing boards to stud framing up to 0.79mm thick.</td>
<td>1st layer - 1700&lt;br&gt;2nd layer - 2200</td>
</tr>
<tr>
<td><strong>Gyproc Wafer Head Drywall Screws</strong>&lt;br&gt;For metal-to-metal fixing up to 0.79mm thick.</td>
<td>as required</td>
</tr>
<tr>
<td><strong>Gyproc Sealant</strong>&lt;br&gt;For sealing airpaths for optimum sound insulation.</td>
<td>1 cartridge per 35m based on 6-10mm bead</td>
</tr>
<tr>
<td><strong>Gyproc jointing materials</strong>&lt;br&gt;For seamless jointing.</td>
<td>as required</td>
</tr>
<tr>
<td><strong>Gyproc edge beads</strong>&lt;br&gt;Protecting and enhancing board edges.</td>
<td>as required</td>
</tr>
</tbody>
</table>
### Components

#### Fixing and finishing products

<table>
<thead>
<tr>
<th>Description</th>
<th>Take-off quantities&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gyproc Control Joint</td>
<td>as required</td>
</tr>
<tr>
<td>To accommodate structural movement.</td>
<td></td>
</tr>
<tr>
<td>Gyproc FireStrip</td>
<td>as required</td>
</tr>
<tr>
<td>For fire-stopping deflection heads.</td>
<td></td>
</tr>
<tr>
<td>Thistle Multi-Finish or Thistle Board Finish</td>
<td>10m² per 25kg bag</td>
</tr>
<tr>
<td>To provide a plaster skim finish.</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Thistle Durafinish</td>
<td>10m² per 25kg bag</td>
</tr>
<tr>
<td>To provide improved resistance to accidental damage.</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Thistle Spray Finish</td>
<td>11m² per 25kg bag</td>
</tr>
<tr>
<td>Gypsum finish plaster for spray or hand application.</td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup> Quantities are based on 100m² of straight partition with a double layer of board each side. Quantities are approximate and for guidance only, no allowance has been made for waste, openings, abutments, etc. Refer to Section 11 – Quantity take-off details.

#### Fixing and finishing products

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<tr>
<th>Description</th>
<th>Take-off quantities&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isover APR 1200</td>
<td>100m²</td>
</tr>
<tr>
<td>For enhanced acoustic performance. 25, 50mm.</td>
<td></td>
</tr>
</tbody>
</table>
Construction tips

- The following points should be considered in addition to the construction tips for GypWall **CLASSIC**
- The estimated construction time is 1m² - 1.5m² / man hour ready for finishing
- Gypframe RB1 Resilient Bar noggings must be used at perimeters and doors to maintain screw-fixing centres
- Select correct length screws to eliminate contact with metal studs when board fixing to Gypframe RB1 Resilient Bar
- Gypframe RB1 Resilient Bar may be fixed to one or both sides, as specified
Installation

- Gypframe Floor & Ceiling Channel is fixed to the floor and soffit.

**Fixing floor and ceiling channels**
- Floor channels must be securely fixed with a line of fixings at 600mm maximum centres. With 94mm and 148mm channels, staggered fixings are required, each line at 600mm centres and each fixing 25mm in from the flange. If the floor is uneven a 38mm thick timber sole plate equal to the width of the channel should be used. If the concrete or screeded floor is new, consideration should be given to the installation of a damp proof membrane between the floor surface and the channel or sole plate.
- Head channels must be securely fixed at 600mm maximum centres. With 94mm and 148mm channel, staggered fixings are required, each line at 600mm centres and each fixing 25mm in from the flange.
Gypframe ‘C’ Studs are fitted vertically at 600mm centres to a friction-fit within the channel sections, and to abutments, to form the framework.

Gypframe RB1 Resilient Bars are fixed horizontally to the stud framing at 600mm centres. Bars are joined by nesting them together over a stud, with the base flange fixed to the stud. The bars are normally fixed with the base flange on the top side, with the exception of the uppermost bar which is fixed base flanged down to provide board fixing at the partition head.

Noggings of Gypframe RB1 Resilient Bars are fixed vertically to studs between horizontal bars at perimeters and doors.

Any openings must be constructed with care so as to minimise loss of the acoustic performance. Specialist acoustic door sets may be required.
Both layers of boards are fixed vertically to the Gypframe RB1 Resilient Bars with joints staggered. Where Gyproc Plank is required as an inner layer fixed to the resilient bar, it is positioned vertically and fixed across its width at each bar position with two Gyproc Drywall Screws. Other boards, inner and outer, are fully fixed to all framing members at 300mm centres.

Board joints to be staggered between Gyproc Plank and Gyproc SoundBloc by nominal 300mm.

Services

- Install services (by appropriate trades), normally after one side is boarded. Pass horizontal runs through cut-outs in the studs.
- Install Gypframe 99 FC 50 Fixing Channel or Gypframe Floor & Ceiling Channel between studs to provide support for recessed switch boxes, or use a high performance socket box detail.

- Fix Gypframe GA1 Steel Angle to web of metal studs with two Gyproc Wafer Head Screws. The face layer of pattress to be equal in specification to face layer of partition boarding.
- The second layer of board forming pattress to be equal in specification to face layer of partition board or, alternatively, an equal thickness of plywood if preferred. The boards are screw-fixed to the Gypframe GA1 Steel Angle with Gyproc Drywall Screws.
Fixtures

- Additional framing is installed as required to support fixtures. For light to medium fixtures, Gypframe 99 FC 50 Fixing Channel can be used. Install Gypframe 150 FC 90 Fixing Channels to accommodate heavyweight fixtures. If a plywood pattress is required, Gypframe Service Support Plates should be used. These are solutions for the non-Gypframe RB1 Resilient Bar side only.

- Alternatively, Hilti CP617 Putty Pads can be used, contact Hilti for full details. Telephone: 0800 886100.

- All performance substantiation has to be provided by the fire-stopping manufacturer as is the case for any fire-stopping material.

- Install Isover insulation (as required) progressively as boarding proceeds.

- Isover insulation can be hung within the partition by trapping at the partition head using Gypframe Steel Angle.