Party Wall Design & Installation
Introduction

The CSR Gyprock Party Wall system is designed to provide a separating wall for dwellings that are side-by-side such as town houses and row houses.

Gyprock Party Wall comprises a double frame wall with a 25mm Shaft Liner Panel fire barrier between the frames. The basis of the fire performance is the central fire barrier that provides the primary fire resistance, with the frame lining on each side contributing to some extent. This allows the wall linings to be installed as for normal decorative linings, and to incorporate penetrations.

The basis of the acoustic performance is the double cavity system that provides effective sound transmission performance, as well as impact isolation. Insulation in both cavities is used to deliver a range of performance levels, including allowance for certain penetrations and services that may occur.

Applications

CSR Gyprock Party Wall intertenancy systems are designed as separating walls for Class 1 buildings. Systems are available for steel and timber framing with FRL 60/60/60 and sound ratings of $R_W + C_T = 50$ or more. The systems have some elements that are common to the adjoining buildings, and are suitable for buildings with shared title on single allotments.

Systems for other classes of buildings, and for other Fire Resistance Levels are also available. Contact CSR Gyprock for information on construction for these systems.
Advantages

- Steel and timber frame options.
- Systems for $R_W + C_T 50$ and discontinuous construction.
- Room linings installed as for non-rated systems.
- No setting joints of central fire barrier.

- Services simply incorporated.
- Minimal use of sealants.
- Plasterboard and fibre cement options for wet areas.
- Rapid installation.
- No additional trades.

Figure 1: CSR Gyprock Party Wall Overview

Figure 2: Typical Gyprock Party Wall Applications For Class 1 Buildings
Gyprock Plasterboard Selection

Gyprock plasterboard products are available in a large range of sheet lengths. Lengths vary by state, and a full list is available at www.gyprock.com.au. Standard width is 1200mm. Some products are also available in 900, 1350 and 1400mm widths (lead times may apply). Shaft Liner Panel is supplied in 600mm width only. Colour shading behind each product name approximates the colour of the product face liner sheet.

Table 1: Gyprock Plasterboard Features, Applications & Specifications

<table>
<thead>
<tr>
<th>GYPROCK® PLASTERBOARD</th>
<th>APPLICATIONS – WALLS &amp; CEILINGS</th>
<th>THICKNESS (mm)</th>
<th>MASS kg/m²</th>
<th>FIRE</th>
<th>MOISTURE RESISTANT</th>
<th>ENHANCED IMPACT RESISTANCE</th>
<th>ENHANCED SOUNDBUILD RESISTANCE</th>
<th>ENHANCED SOUNDBUILD AIR</th>
<th>MOULD RESISTANT</th>
<th>LOW VOC</th>
<th>RECIA ACCREDITED</th>
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</thead>
<tbody>
<tr>
<td><strong>Residential – Select Range</strong></td>
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<tr>
<td><strong>Plus™</strong></td>
<td>A 10mm thick sheet primarily designed for residential walls. Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed.</td>
<td>10</td>
<td>5.7</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td></td>
<td>Made with Optimised Core technology that delivers an advanced performance-to-weight ratio, meaning greater breaking strength in a substantially lighter board that continues to exceed the performance requirements of AS/NZS2588.</td>
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<td></td>
<td>Optimised Core technology delivers improved handling and installed performance, as well as crisper score and snap.</td>
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<tr>
<td><strong>Supacell™</strong></td>
<td>A 10mm thick sheet designed to span up to 600mm in ceiling applications. Can also be used for wall applications. Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed.</td>
<td>10</td>
<td>6.1</td>
<td>✓</td>
<td>✓</td>
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<td></td>
<td>Made with Optimised Core technology that delivers an advanced performance-to-weight ratio, meaning greater breaking strength in a substantially lighter board that continues to exceed the performance requirements of AS/NZS2588.</td>
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<tr>
<td><strong>Aquachek™</strong></td>
<td>Both the core and linerboard facing are treated in manufacture to withstand the effects of moisture and high humidity. Recessed long edges allow flush jointing to other Recessed Edge plasterboard types.</td>
<td>10</td>
<td>7.9</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td><strong>Residential – Specialty Options</strong></td>
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<tr>
<td><strong>Soundchek™</strong></td>
<td>Designed to provide enhanced acoustic resistance. A machine made sheet composed of a high density gypsum core encased in a heavy duty linerboard. Long edges are recessed for flush jointing.</td>
<td>10</td>
<td>9.3</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td></td>
<td>Approved by the National Asthma Council’s Sensitive Choice® program as a better choice for asthma and allergy sufferers.</td>
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<td></td>
<td>Gyprock Sensitive provides moisture and mould resistance.</td>
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<td></td>
<td>Long edges are recessed for flush jointing.</td>
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<tr>
<td><strong>Sensitive</strong></td>
<td>Manufactured with a very dense core and heavy duty facing producing high impact and sound resistance, Superchek has a white paper face to assist in paint coverage. Will span 600mm in ceiling applications. Double the force to impose a discernible surface indentation compared to standard plasterboard. Walls lined with Superchek provide a clearly noticeable reduction in perceived loudness compared to standard plasterboard. Long edges are recessed for flush jointing.</td>
<td>10</td>
<td>10.4</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td><strong>Superchek™</strong></td>
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<tr>
<td><strong>Commercial – Select Range</strong></td>
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<tr>
<td><strong>Standard Plasterboard</strong></td>
<td>RE – Recessed Edge Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed.</td>
<td>13</td>
<td>8.5</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td></td>
<td>RE/SE – 1 Recessed Edge, 1 Square Edge Typically used on walls with a single horizontal joint. One long edge is recessed to assist in producing a smooth, even and continuous surface once jointed.</td>
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<td></td>
<td>One long edge is square to enable easy fixing of skirting and cornice at the top and bottom of walls. SE – 2 Square Edges Long edges are square, and can be butted together without jointing, or covered with aluminium, timber or vinyl mouldings.</td>
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<th>ENHANCED SOUND RESISTANCE</th>
<th>ENHANCED WATER RESISTANCE</th>
<th>MOULD RESISTANCE</th>
<th>LOW VOC</th>
<th>GCIA ACCREDITED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aquachek™</strong></td>
<td>• Refer to Residential Select Range for details.</td>
<td>13</td>
<td>9.8</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td><strong>Soundchek™</strong></td>
<td>• Refer to Residential Specialty Options for details.</td>
<td>13</td>
<td>13.0</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td><strong>Impactchek™</strong></td>
<td>• Fire grade board reinforced with a woven fibreglass mesh to produce a high strength plasterboard which resists soft body impact damage. • Ideal for high traffic areas such as hallways, stairways, playrooms and garages. • Long edges are recessed for flush jointing.</td>
<td>13</td>
<td>10.5</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>Fyrchek™</strong></td>
<td>• Fire grade board composed of a specially processed glass fibre reinforced gypsum core encased in a heavy duty linerboard. • Ideal for high performance fire and acoustic rated walls and ceilings. • Long edges are recessed for flush jointing.</td>
<td>13</td>
<td>10.5</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td></td>
<td>• Fire grade board with moisture resistant properties. • Both the core and the liner board are treated in manufacture to withstand the effects of high humidity and moisture. • Long edges are recessed for flush jointing.</td>
<td>16</td>
<td>12.5</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td></td>
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<tr>
<td><strong>Fyrchek™ MR</strong></td>
<td>• Fire grade board with moisture resistant properties.</td>
<td>13</td>
<td>10.8</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td></td>
<td>• Both the core and the liner board are treated in manufacture to withstand the effects of high humidity and moisture. • Long edges are recessed for flush jointing.</td>
<td>16</td>
<td>12.9</td>
<td>✓</td>
<td>✓</td>
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<td><strong>Commercial – Specialty Options</strong></td>
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<tr>
<td><strong>EC08™ Impact</strong></td>
<td>• This product features higher levels of recycled content, making it a superior choice for Green Building projects. • EC08 Impact is a fire grade board offering increased density for greater resistance to soft and hard body impact for high traffic areas such as hallways and stairs in education and health facilities. • Long edges are recessed for flush jointing.</td>
<td>13</td>
<td>12.1</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>EC08™ Impact MR</strong></td>
<td>• This product features higher levels of recycled content, making it a superior choice for Green Building projects. • A fire grade board specially treated for wet area/high humidity locations subject to increased impact risk, such as bathrooms, kitchens, laundries, walkways for hospitals, aged care, educational and commercial buildings. • Long edges are recessed for flush jointing.</td>
<td>13</td>
<td>12.4</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td><strong>EC08™ Complete</strong></td>
<td>• This product features higher levels of recycled content, making it a superior choice for Green Building projects. • Approved by the National Asthma Council's Sensitive Choice® program as a better choice for asthma and allergy sufferers. Gyprock EC08 Complete is a premium internal lining solution which integrates an efficient mould inhibitor, scuff resistance, soft and hard body impact resistance, moisture resistance, sound resistance and fire resistance into a low VOC plasterboard. • Long edges are recessed for flush jointing.</td>
<td>13</td>
<td>12.4</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>Shaft Liner Panel</strong></td>
<td>• Fire grade board used extensively in Gyprock shaft systems, services systems, party wall and intertenancy wall applications. • A 25mm thick sheet composed of a glass fibre reinforced gypsum core encased in a heavy duty linerboard. • 600mm wide square edge sheets.</td>
<td>25</td>
<td>19.8</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td><strong>Flexible</strong></td>
<td>• A 6.5mm thick plasterboard with an enhanced core to allow bending to small radii for curved walls and ceilings. • Designed for installation as a two layer system. • Long edges are recessed for flush jointing.</td>
<td>6.5</td>
<td>4.3</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>
Components

Fasteners

Gyprlock Acrylic Stud Adhesive
• Gyprlock Acrylic Stud Adhesive is coloured blue for easy identification. It can be used in temperatures not less than 5°C.
• Contact surfaces must be free of oil, grease or other foreign materials before application. The adhesive is applied with a broad knife to form 25mm diameter by 15mm high walnuts. This product is suitable for use with pre-painted metal battens and some treated timbers. Always follow directions on packaging.

WARNING
• Stud adhesive must not be relied on in fire rated systems.
• Daubs of adhesive must never coincide with fastener points.
• Stud adhesive does not constitute a fixing system on its own and it must be used in conjunction with nail or screw fasteners.

Pack Qty Order No.
Sausage 900g 95082
Bucket 5.5kg 10091

Components

Fasteners

Fasteners For Fixing Clips/Straps to Timber Framing
• Type S, bugle head, needle point, coarse thread screw.

<table>
<thead>
<tr>
<th>Size</th>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6g x 25mm</td>
<td>Loose</td>
<td>1000</td>
<td>169067</td>
</tr>
<tr>
<td>(softwood/hardwood)</td>
<td>Collated</td>
<td>1000</td>
<td>162775</td>
</tr>
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</table>

• Clouts, hot-dip galvanised for fixing Wall Clip and Aluminium Straps to timber plate.

<table>
<thead>
<tr>
<th>Size (Framing)</th>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>2.0 x 25mm</td>
<td>Loose</td>
<td>0.5kg</td>
<td>12786</td>
</tr>
<tr>
<td>(softwood/hardwood)</td>
<td>Loose</td>
<td>2.5kg</td>
<td>11332</td>
</tr>
</tbody>
</table>

Screws For Fixing Components To Steel Framing
• Drill-point, wafer-head screw for joining J-track back-to-back, for fixing Wall Clips, Aluminium Straps and J-tracks to steel framing.

<table>
<thead>
<tr>
<th>Size</th>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>10g x 16mm</td>
<td>Loose</td>
<td>100</td>
<td>40914</td>
</tr>
<tr>
<td></td>
<td>Loose</td>
<td>1000</td>
<td>39367</td>
</tr>
</tbody>
</table>

• Drill-point, wafer-head screw for fixing Wall Clip to H-Stud through Gyprock Fyrchek plasterboard.

<table>
<thead>
<tr>
<th>Size</th>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>10g x 30mm</td>
<td>Loose</td>
<td>100</td>
<td>40915</td>
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<tr>
<td></td>
<td>Loose</td>
<td>1000</td>
<td>39368</td>
</tr>
</tbody>
</table>

• Type S plasterboard laminating screw, coarse thread, for fixing 16mm Gyprock Fyrchek plasterboard to Shaft Liner Panels.

<table>
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<tr>
<th>Size</th>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>10g x 38mm</td>
<td>Loose</td>
<td>500</td>
<td>109259</td>
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</table>

Bottom Plate Fasteners
• Must be steel e.g. Power actuated concrete nails, flat or round head expansion anchors. Supplied by others.
Steel H-Stud

The Gyprock Party Wall System incorporates 25mm H-Studs to support the Shaft Liner Panels at all vertical joints. It is made from 0.55mm BMT G275 galvanised steel.

<table>
<thead>
<tr>
<th>Length</th>
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<tbody>
<tr>
<td>3000mm</td>
<td>39156</td>
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<tr>
<td>3600mm</td>
<td>122926</td>
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</tbody>
</table>

Gyprock Aluminium Wall Clip

- Used to support the H-Stud, and are critical in the fire performance of systems. They are manufactured from 1.6mm aluminium.

<table>
<thead>
<tr>
<th>Pack Qty</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>1</td>
<td>81408</td>
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</table>

Aluminium Strap

- Used as an alternative to wall clips at wall ends. Minimum size 50x110x1.6mm. Supplied by others.

Sealants

- Gyprock Fire Mastic fire rated sealant for use where detailed.

<table>
<thead>
<tr>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>Sausage</td>
<td>600ml</td>
<td>10922</td>
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</tbody>
</table>

- CSR FireSeal fire rated sealant for use where detailed.

<table>
<thead>
<tr>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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</thead>
<tbody>
<tr>
<td>Sausage</td>
<td>600ml</td>
<td>121022</td>
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</tbody>
</table>

- Gyprock Wet Area Acrylic Sealant.

<table>
<thead>
<tr>
<th>Pack</th>
<th>Qty</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>Tube</td>
<td>450g</td>
<td>10902</td>
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</table>
J-track

- Steel J-track (Rondo NºP140) is used in the following applications:
  - Support of Shaft Liner Panels at the top and the bottom of the wall.
  - Support of Shaft Liner Panels at the ends of the wall.
  - Back-to-back at all horizontal joints in Shaft Liner Panels.

Steel Folding Track

- Gyprock Folding Track may be used as an alternative for ease of installation.

### Insulation Materials

CSR Fire and Acoustic Systems incorporate Bradford glasswool and rockwool insulation. These products have undergone significant acoustic testing and have a proven track record of performance and durability in service. Additional information on Bradford Insulation materials is available by telephoning CSR Bradford on 1300 850 305.

Although insulation materials are often specified for thermal resistance, they can contribute significantly to the acoustic performance of wall and ceiling systems. CSR only recommends materials that have been tested for fire and acoustic applications, have proven durability, and are supported by their manufacturer for these applications. Should other insulation materials be used, the manufacturer of those materials must verify the performance of the complete system, CSR will not support the performance of substitute materials.

<table>
<thead>
<tr>
<th>Product</th>
<th>Abbreviation</th>
</tr>
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<tbody>
<tr>
<td>75mm Bradford Gold Wall Batts R2.0</td>
<td>75 Gold Batts 2.0</td>
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<tr>
<td>90mm Bradford Gold Wall Batts R2.7</td>
<td>90 Gold Batts 2.7</td>
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<tr>
<td>50mm Bradford Acoustigard R1.3 (14kg/m³)</td>
<td>50 GW Acoustigard 14kg</td>
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<tr>
<td>75mm Bradford Acoustigard R1.8 (14kg/m³)</td>
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<tr>
<td>110mm Bradford Acoustigard R2.5 (11kg/m³)</td>
<td>110 GW Acoustigard 11kg</td>
</tr>
<tr>
<td>88mm Bradford Soundscreen R2.5</td>
<td>88 Soundscreen R2.5</td>
</tr>
<tr>
<td>50mm Bradford Fireseal Party Wall Sealer</td>
<td>50mm Fireseal</td>
</tr>
</tbody>
</table>

CeminSeal Wallboard

CeminSeal Wallboard features an embedded micro waterblock technology that repels water, preventing water penetration into the panel and hence providing a durable sheet that will not rot, swell or warp when properly installed.

Wallboard is a superior lining for wet areas such as bathrooms and laundries, and for the construction of impact resistant walls. Cemintel Wallboard has a recess on both long edges so that sheets may be taped and set. Once jointed it may be tiled, painted or wall papered as desired.
Design Considerations

Building Design
Gyprock Party Wall systems consist of vertically spanning elements, typically extending from the ground slab or footing to the roof. Where walls extending upwards from other levels are permitted, details are available, for example from a cantilevered balcony. It may not be possible to start the Party Wall system over a void or above cavity masonry while maintaining both fire and acoustic ratings. Consideration of roof framing is also important to avoid penetrating the fire barrier with trusses, ties, hip beams, etc.

Maximum overall height for the central fire barrier is 12m, with maximum ceiling-to-ceiling heights of 3m. The ceiling-to-ceiling heights may be increased to 3.6m with components to special order, for overall wall heights up to 10.8m. For ground floor limits, refer to Figure 3.

Details are provided to allow the adjoining buildings to be offset in height, with the higher-level walls treated as fire rated external walls. Gyprock Party Wall systems are suited to buildings with aligned facades, and details for off-set facades are also provided.

Structural Design
All walls must be designed for the applied loads. Timber framing shall be in accordance with AS1684 or AS1720.1 and steel framing shall be designed to AS/NZS 4600 or AS 3623. The building designer must ensure load-bearing walls have been designed assuming no contribution to axial strength from the wall linings.

Gyprock Party Wall Systems may be exposed to wind during construction for up to three months during construction, for wind zones N1 and N2. For higher wind loads or longer exposure, the H-Studs must be adequately propped until the building is enclosed.

Fire Resistance
The Gyprock Party Wall systems in this manual have been assessed by Exova Warringtonfire in accordance with the general principles of AS1530.4. They are suitable for the stated FRL when designed in accordance with the noted building and structural considerations, and when installed in accordance with the details in this manual. The load bearing element of the FRL applies only to walls supporting non-fire rated structures such as floors and roofs within the same fire compartment.

The systems are designed to allow one side to collapse in a fire, leaving the central barrier and the opposing wall in place. In the roof space and the floor/ceiling zone where there are no stud linings, 16mm Fyrchek plasterboard is laminated to the Shaft Liner to maintain the rating. The aluminium clips used in single Shaft Liner systems are intended to melt on the fire side only, allowing collapse without damage to the remaining system.
For all systems, penetrations may be made in Shaft Liner Panels in the roof space only, and must be fire sealed to suit the system fire rating. Systems lined with Cemintel Wallboard must include Bradford glasswool or rockwool insulation to each frame to achieve the stated fire resistance.

Insulation is an essential component for some systems to achieve the stated FRL and cannot be omitted or substituted.

Installation of System Wall Clips and Straps
Aluminium Wall Clips used in the system allow gaps of 20mm to 40mm between the wall framing and the Shaft Liner panel. Areas with 16mm Fyrchek laminated to one side of the Shaft Liner may have the gap reduced to 4mm. In all areas, suitable allowance for construction tolerance should be made to ensure the minimum gap is maintained.

Clips must be screw fixed to H-stud or J-track framing, and fixing directly to the Shaft Liner Panel is not permissible. Each Clip is also fixed to the wall framing at plates/tracks, trimmers, noggins or trusses. They may be fixed to framing studs if the alignment permits.

Clips must be closely aligned on opposite sides of the wall, and are to be fixed to framing at no more than 600mm below the top of Shaft Liner panels. In roof voids, clips may be offset vertically by 150mm maximum.

Aluminium straps 50 x 90 x 1.6mm (supplied by others) may be used instead of Wall Clips at terminating junctions.

Acoustic Performance
The acoustic performance of wall systems is expressed in terms of $R_W$ and $R_W + Ctr$. The systems have been assessed by PKA Acoustic Consulting, and the ratings refer to expected laboratory performance. The site performance of the systems may be affected by sound flanking, the effectiveness of workmanship, and the inclusion of structural elements and bridging items. The building designer must pay special attention to airborne and structural flanking paths to minimise the difference between laboratory and field performance.

Wall clips are only to be installed at or within floor and ceiling zones as shown in the details. Using additional clips within the storey height will reduce the acoustic performance of the wall, and may not meet the requirement for discontinuous construction.

For flanking sound control, it is required that the ceiling of each story consists of plasterboard 10mm or thicker, and that insulation extends 1200mm minimum on each side of the wall over the ceiling. The insulation is to be glasswool or rockwool 75mm or thicker, such as Bradford R1.5 Gold batts. Ceiling penetrations for downlights and fixtures must not be located within 1200mm of the Party Walls.

It is assumed no rating is required between the two adjoining roof spaces and that the spaces are not able to be occupied. It is proposed that the detail is an alternative solution, and is to be confirmed by the certifier.

All systems achieve $R_W > 45$ and $R_W + Ctr > 40$ for services in the adjoining unit.

Substitution
Plasterboard, fibre cement, and insulation materials must be as specified in the construction details and system selection tables. No statement of performance will be provided by CSR when other brand products are used.

Exposure to Weather
Once erected, it is recommended that the central barrier of Gyprock Shaft Liner Panels and Fyrchek plasterboard are protected from rain. The use of suitable sheeting can prevent the formation of mould, and avoid delays in allowing boards to dry before internal linings are applied. In any case, the central barrier may be left exposed to weather for up to one month if required. Panels with physical damage to either the core or paper face must be replaced.

Fibre Cement & Plasterboard Fixing
Walls may be built to achieve a specified ‘Level of Finish’ as defined in AS/NZS2589.1. The Level of Finish specified can have requirements for frame alignment, jointing and back blocking methods, and sheet orientation.

Cemintel Wallboard and Gyprock plasterboard may be installed vertically or horizontally, although for some Levels of Finish horizontal sheeting must be used. Walls lined with Gyprock plasterboard or Cemintel Wallboard may be finished with tiles. Refer to the appropriate installation manual:
- GYP547 Gyprock Residential Installation Guide
- GYP548 Gyprock Commercial Installation Guide
- Cemintel Wet Area Systems
- Cemintel Texture Coating System

Fyrchek Laminated Layer
The installation of Fyrchek laminated to the central Shaft Liner barrier is required in some areas, including:
- The roof space.
- Floor framing junctions.
- The sub-floor space.
- The eaves space (when using party wall eaves separation method).
- Cantilevered wall locations.

The laminated layer must extend vertically at least 200mm beyond any unlined area and may be installed on either side of the Shaft Liner panel. It should not be installed on both sides in any location where discontinuous construction is required.

Vertical joints between sheets should be positioned so that they do not coincide with vertical H-stud locations. The sheet joins must be neatly formed with gaps not greater than 3mm and need not be taped or set.
The Fyrchek laminated layer must be fixed with laminating screws at spacings detailed in the installation diagram.

Services

CSR Gypsum Party Wall systems allow penetrations to be made in the stud wall linings. Back-to-back services are permitted. Penetrations for plumbing and electrical services may be installed without the need for acoustic caulking, baffles or fire seals.

No penetrations are permitted through the central fire barrier, except within the roof space where they must be fire sealed.

Systems have been fire tested with services including PVC (65mm max. diameter), copper plumbing, and electrical services installed in both wall leaves with acceptable performance. Services may be installed through the stud framing or, with a minimum 10mm clearance to the central Shaft Liner barrier, and may be fixed to the back of studs. Simply prepare neat cut holes with a 6mm maximum clearance.

No fire or acoustic sealant is required at junction of shaft liner panel with H-Studs or between the track and an even floor slab. No fire caulking is required in the outer linings.

Figure 4: Typical Penetration Features

NOTE: Shower Wall Niches ARE NOT PERMITTED within the party wall

CeminSeal Wallboard or Gyprock MR plasterboard to wet areas

Gyprock Shaft Liner Panel (no penetration permitted through this lining except in roof space)
### System Selection

## Timber Frame Internal Wall Systems – Party Wall with Timber Stud Framing

<table>
<thead>
<tr>
<th>System Specification</th>
<th>Wall Linings</th>
<th>Stud Depth mm</th>
<th>Cavity Infill (Both Sides)</th>
<th>Rw / Rw+Ctr</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRL Report/Opinion</strong></td>
<td><strong>System Nº</strong></td>
<td><strong>WALL LININGS</strong></td>
<td>(Refer to Insulation Materials)</td>
<td><strong>NOTE:</strong></td>
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<tr>
<td>~60/60 60/60/60* (from both sides)</td>
<td>CSR 2402</td>
<td>BOTH SIDES: • 1 x 6mm CeminSeal Wallboard.</td>
<td>(a) 75 Gold Batts 2.0: 61/48 62/50</td>
<td>Applicable only to walls supporting non-fire rated structures such as floors and roofs.</td>
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<td>(a) 75 Gold Batts 2.0: 63/50 64/52</td>
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</tbody>
</table>

### System Selection

- **Lining material as per system table.**
- **Timber studs at 600mm maximum centres.**
- **Cavity insulation as per system table.**
- **20-40mm air gap.**

**NOTE:**

- *Applicable only to walls supporting non-fire rated structures such as floors and roofs.*

---

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System Specifications

Timber Frame Internal Wall Systems – Party Wall with Timber Stud Framing

Lining material as per system table.
Timber studs at 600mm maximum centres.
Cavity insulation as per system table.
25mm Gyprock Shaft Liner Panel in H-studs at 600mm maximum centres.
20-40mm air gap.

**NOTE:**
*Applicable only to walls supporting non-fire rated structures such as floors and roofs.

### System Specification

**Acooustic Opinion: PKA Predictor V16**
Discontinuous Construction

<table>
<thead>
<tr>
<th>FRL Report/Opinion</th>
<th>System N°</th>
<th>Wall LININGS</th>
<th>Stud Depth mm</th>
<th>CAVEITY INFILL (Both Sides)</th>
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</thead>
</table>
| ~60/60 60/60/60* (from both sides) EWFA 45743 | CSR 2415 | BOTH SIDES
• 2 x 10mm Gyprock Plus Plasterboard. | 70 | (a) 75 Gold Batts 2.0 62/49 63/51 |
| | | | | (b) 90 Gold Batts 2.7 64/51 65/53 |
| | | | | (c) 88 Soundscreen 2.5 65/52 66/54 |
| | | | | (e) 110 Acoustigard 2.5 64/51 65/53 |
| | | | Minimum Wall Thickness mm 245 285 |
| ~60/60 60/60/60* (from both sides) EWFA 45743 | CSR 2417 | BOTH SIDES
• 2 x 10mm Gyprock Sensitive Plasterboard. | 70 | (a) 75 Gold Batts 2.0 63/51 64/52 |
| | | | | (b) 90 Gold Batts 2.7 65/53 66/54 |
| | | | | (c) 88 Soundscreen 2.5 66/54 67/55 |
| | | | | (e) 110 Acoustigard 2.5 65/53 66/54 |
| | | | Minimum Wall Thickness mm 245 285 |
| ~60/60 60/60/60* (from both sides) EWFA 45743 | CSR 2435 | SIDE ONE
• 1 x 13mm Gyprock Soundcheck Plasterboard. | 70 | (a) 75 Gold Batts 2.0 61/48 63/51 |
| | | | | (b) 90 Gold Batts 2.7 63/50 65/53 |
| | | | | (c) 88 Soundscreen 2.5 64/54 66/54 |
| | | | | (e) 110 Acoustigard 2.5 63/50 65/53 |
| | | | Minimum Wall Thickness mm 224 264 |
| ~60/60 60/60/60* (from both sides) EWFA 45743 | CSR 2441 | BOTH SIDES
• 1 x 13mm Gyprock Standard Plasterboard. | 70 | (a) 75 Gold Batts 2.0 61/48 62/50 |
| | | | | (b) 90 Gold Batts 2.7 63/50 64/52 |
| | | | | (c) 88 Soundscreen 2.5 64/51 65/53 |
| | | | | (e) 110 Acoustigard 2.5 63/50 64/52 |
| | | | Minimum Wall Thickness mm 231 271 |
| ~60/60 60/60/60* (from both sides) EWFA 45743 | CSR 2443 | SIDE ONE
• 1 x 13mm Gyprock Aquachek Plasterboard. | 70 | (a) 75 Gold Batts 2.0 61/48 62/50 |
| | | | | (b) 90 Gold Batts 2.7 63/50 64/52 |
| | | | | (c) 88 Soundscreen 2.5 64/51 65/53 |
| | | | | (e) 110 Acoustigard 2.5 63/50 64/52 |
| | | | Minimum Wall Thickness mm 231 271 |
SYSTEM SPECIFICATIONS

Timber Frame Internal Wall Systems – Party Wall with Timber Stud Framing

Lining material as per system table.
Timber studs at 600mm maximum centres.
Cavity insulation as per system table.
25mm Gyprock Shaft Liner Panel in H-studs at 600mm maximum centres.
20-40mm air gap.

FRL Report/Opinion
SYSTEM Nº WALL LININGS

STUD DEPTH mm 70 90

CAVITY INFILL (Both Sides) (Refer to Insulation Materials) $R_W / R_{W+Ctr}$

Minimum Wall Thickness mm

NOTE:
*Applicable only to walls supporting non-fire rated structures such as floors and roofs.

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# SYSTEM SPECIFICATIONS

## Steel Frame Internal Wall Systems – Party Wall with Steel Stud Framing

<table>
<thead>
<tr>
<th>SYSTEM SPECIFICATION</th>
<th>WALL LININGS</th>
<th>STUD BMT mm</th>
<th>Rw / Rw+Ctr</th>
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<td><strong>FRL</strong></td>
<td><strong>SYSTEM Nº</strong></td>
<td><strong>STUD DEPTH mm</strong></td>
<td><strong>CAVITY INFILL</strong> (Refer to Insulation Materials)</td>
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<td>– /60/60 60/60/60*</td>
<td>CSR 1502</td>
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<td>(b) 75 GW Acoustigar 14kg – each side</td>
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<td>(c) 88 Soundscreen 2.5 – each side</td>
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<td>Minimum Wall Thickness mm</td>
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### SYSTEM SPECIFICATIONS

#### Steel Frame Internal Wall Systems – Party Wall with Steel Stud Framing

- **Lining material** as per system table.
- **Steel studs** at 600mm maximum centres.
- **Cavity insulation** as per system table.
- **25mm Gyprock Shaft Liner Panel** in H-studs at 600mm maximum centres.
- **20-40mm air gap.**

### SYSTEM SPECIFICATION

<table>
<thead>
<tr>
<th>FRL Report/Opinion</th>
<th>SYSTEM N°</th>
<th>WALL LININGS</th>
<th>ACOUSTIC OPINION: PKA Predictor V16 Discontinuous Construction</th>
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<td>Minimum Wall Thickness mm</td>
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**NOTE:** Acoustic performance valid for studs with BMT stated in table.
*Applicable only to walls supporting non-fire rated structures such as floors and roofs.
<table>
<thead>
<tr>
<th>FRL Report/Opinion</th>
<th>SYSTEM N°</th>
<th>WALL LININGS</th>
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<td>• 1 x 13mm Gyprock Soundchek Plasterboard.</td>
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<td>(b) 75 GW Acoustigard 14kg – each side</td>
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<td>(c) 88 Soundscreen 2.5 – each side</td>
<td>65/52</td>
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<td>Minimum Wall Thickness mm</td>
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<td>64/51</td>
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<td>(c) 88 Soundscreen 2.5 – each side</td>
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<td>Minimum Wall Thickness mm</td>
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NOTE: Acoustic performance valid for studs with BMT stated in table.
*Applicable only to walls supporting non-fire rated structures such as floors and roofs.
Typical Installation Sequence

A typical construction sequence consists of installation of framing for an occupancy on one or more levels, installation of the Party Wall central barrier, and installation of the second occupancy framing. An alternative sequence is to erect framing for both occupancies and then to insert the Party Wall central barrier. In this case sufficient access must be provided to install all wall components by, for example, temporarily omitting some framing.

Figure 5: Ground Floor Fire Barrier Installed

Figure 6: Unit 2 Frame And Floor Installed

Figure 7: First Floor Fire Barrier Installed

Figure 8: Unit 2 First Floor Framing Installed
Typical Construction Details

Fire appraisal WFRA 45743, unless noted otherwise.

**Figure 9: Fixing Of Wall Clip to Timber Stud Framing And H-stud**

- Clip fixed to steel H-stud with 2 screws
- Clip fixed to timber framing with 2 nails or 2 screws
- Short section of inverted track fixed to base track

**Figure 10: Fixing Of Wall Clip to Steel Stud Framing And H-stud**

- Clip fixed to steel H-stud with 2 screws
- Clip fixed to steel stud framing with 2 screws

**Figure 11: Fixing Aluminium Straps At End Of Wall**

- Fix aluminium strip to steel framing with 2 screws
- Fix aluminium strip to Party Wall framing with 2 screws

**Figure 12: Base At Flat Slab With Pinned J-Track**

- 20-40mm gap on each side
- 25mm Gyprock Shaft Liner Panel with steel H-studs at vertical panel joints
- Fire rated sealant only required at gaps
- Refer to System Table for wall lining and insulation
- Steel track fixed to concrete slab at 150mm max. from ends and 600mm max. centres between

**Figure 13: Alternative Base With Clips**

- 20-40mm gap on each side
- 25mm Gyprock Shaft Liner Panel with steel H-studs at vertical panel joints
- Fire rated sealant only required at gaps
- Refer to System Table for wall lining and insulation
- Wall Clips fixed at each H-Stud

**Figure 14: Base Detail At Framed Floor**

- Refer to System Table for wall lining and insulation
- 20-40mm gap on each side
- Timber or steel stud wall framing

Concrete slab

- Timber or steel subfloor members
- Continuous strip of 16mm Gyprock Fyrchek screw laminated to Gyprock Shaft Liner Panel
- Concrete or masonry wall with FRL equal to Gyprock Party Wall above. Dampcourse and termite barrier as required

Approval: EWFA 45743 UNO
Timber or steel stud wall framing
Concrete to engineer's detail with FRL equal to Gyprock Party Wall above. Dampcourse and termite barrier as required

Refer to System Table for wall lining and insulation

20-40mm gap on each side
Timber or steel stud wall framing
25mm Gyprock Shaft Liner Panel between steel H studs at 600mm centres

Concrete to engineer's detail with FRL equal to Gyprock Party Wall above. Dampcourse and termite barrier as required

Figure 16: Base At Stepped Slab – Alternative

20-40mm gap on each side
Timber or steel stud wall framing
25mm Gyprock Shaft Liner Panel between steel H studs at 600mm centres

Concrete to engineer's detail with FRL equal to Gyprock Party Wall above. Dampcourse and termite barrier as required

Figure 15: Base At Stepped Slab

Figure 17: Junction Of Party Wall And Non-Fire Rated Internal Timber Framed Wall – Plan View

Wall Clips at each H-Stud, both sides of wall
Timber stud wall framing
20-40mm gap on each side
Timber or steel stud wall framing
25mm Gyprock Shaft Liner Panel between steel H studs at 600mm centres

Fire rated sealant only required at gaps under track

Figure 18: Junction Of Party Wall And Non-Fire Rated Internal Steel Framed Wall – Plan View

Wall Clips at each H-Stud, both sides of wall
Timber stud wall framing
20-40mm gap on each side
Timber or steel stud wall framing
25mm Gyprock Shaft Liner Panel between steel H studs at 600mm centres

Continuous system lining (refer to Party Wall System Table for wall lining)

Figure 19: Junction Of Party Wall And Non-Fire Rated Internal Steel Framed Wall – Alternative Method – Plan View

Wall Clips at each H-Stud, both sides of wall
Timber stud wall framing
20-40mm gap on each side
Timber or steel stud wall framing
25mm Gyprock Shaft Liner Panel between steel H studs at 600mm centres

Insulation in this zone to be rockwool or glasswool only

Min. R1.5 Glasswool or R1.6 Rockwool to 600mm min. from Party Wall

Non fire-rated wall

Figure 17: Junction Of Party Wall And Non-Fire Rated Internal Timber Framed Wall – Plan View

© CSR Gyprock 2018
25mm Gyprock Shaft Liner Panel

16mm Gyprock Fyrchek laminated to Shaft Liner Panel

Joints in laminated layer are not to coincide with H-studs

Setting of joints is not required

Refer to Party Wall System Table for wall lining and insulation

Figure 20: Junction Party Wall To Party Wall At 4-Way Intersection – Plan View

Figure 21: Installation Of Fyrchek Plasterboard Lamination
16mm Gyprock Fyrckek screw laminated to one side (can be on either side of shaft liner panel). Butt together neatly at sheet joins.

J-track fixed back to back at 600mm max. centres (butt neatly together at joins)

Floor joists may be perpendicular or parallel to wall

Floor joists may be perpendicular or parallel to wall

Gyprock Shaft Liner Panel with H-Studs at panel joints

Floor joists

Steel floor beam

Refer to Party Wall System Table for insulation and wall linings

Gyprock Shaft Liner Panel with H-Studs at panel joints

Figure 22: Detail At Upper Storey Framed Floor

Figure 23: Detail For Steel Column And Beam Support
Refer to Party Wall System Table for wall lining and insulation.

16mm Gyprock plasterboard internal lining

External cladding

Roofing

Sarking

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

Required acoustic insulation 75mm min. Bradford Gold batts

200mm min.

4mm min.

Floor joists may be perpendicular or parallel to wall

Required acoustic insulation 75mm min. Bradford Gold batts

Wall Clips to each H-Stud on both sides of wall

Refer to Party Wall System Table for wall lining and insulation

20-40mm gap each side of wall

Gyprock external fine rated wall system with FRL 60/60/60. (Refer to The Red Book for details)

Fill void at top of wall with Bradford Fireseal Party Wall Sealer

16mm Gyprock Fyrecek

Gyprock Shaft Liner Panel

Figure 24: Detail At Roof/Ceiling At Transition From Single To Two Storey

Gyprock® Party Wall Design & Installation Guide
Refer to Party Wall System Table for wall lining and insulation.
Refer to Party Wall System Table for wall lining and insulation

Gyprock Shaft Liner Panel

25mm gap over Gyprock Shaft Liner Panel

Wall Clips at each H-Stud on both sides of wall

Optional track along top of Gyprock Shaft Liner Panel

Fill void at top of wall with Bradford Fireseal Party Wall Sealer

Required acoustic insulation 75mm min. Bradford Gold batts

Blocking 45mm thick between trusses

Wall Clips at each H-Stud on both sides of wall

Refer to Party Wall System Table for wall lining and insulation

4mm min. gap

Cladding system to project specifications

45mm min. thick ledger with joist hanger

16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres

Refer to Party Wall System Table for wall lining and insulation

20-40mm gap each side of wall

Figure 26: Detail At Roof/Ceiling And Valley Gutter

Figure 27: Detail At Roof/Ceiling And Parapet
Roof battens

Roof framing

Non-combustible roofing

Gyprock Shaft Liner Panel

Refer to Party Wall System Table for wall lining and insulation

Nominal 10mm gap to top of Gyprock Shaft Liner Panel (track optional)

16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres

Fill void between battens with Bradford Fireseal Party Wall Sealer, 300mm min. width

Wall Clips to each H-Stud on both sides of wall at 600mm max. from top of Shaft Liner Panel (clips may be vertically offset from each other by 150mm max.)

200mm min.

4mm min. gap

Refer to Party Wall System Table for wall lining and insulation

600mm max.

Wall Clips at each H-Stud both sides of wall

Required acoustic insulation 75mm min. Bradford Gold batts

Gyprock Shaft Liner Panel

20-40mm gap each side of wall

Figure 28: Detail At Roof/Ceiling With Continuous Roofing Over Party Wall

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Roof battens may be continuous over Party Wall. Refer to BCA requirements.

Non-combustible roofing

1 x 25mm Gyprock Shaft Liner Panel in H-stud framing

Wall Clips at each H-Stud

20-40mm gap each side of wall

16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel, fixed with laminating screws at 400 x 400mm max. centres

Roof sarking

600mm max. from clips

Wall Clips to each H-Stud on both sides of wall at 600mm max. from top of Shaft Liner Panel (clips may be vertically offset from each other by 150mm max.)

J-track fixed back to back at 600mm max. centres (butt neatly together at joins)

Track optional

Capping and flashing to project specifications

External cladding system to project specifications

Non-combustible roofing

4mm minimum gap

Required acoustic insulation 75mm min. Bradford Gold batts

200mm min.

Required acoustic insulation 75mm min. Bradford Gold batts

Fill void between battens at top of wall with Bradford Fireseal Party Wall Sealer, 300mm min. width

Refer to System Specification for wall lining and insulation

Wall Clips at each H-Stud fixed to noggings

600mm max. from clips

Refer to horizontal or vertical panel installation requirements

Blocking to support ceiling lining

Wall Clips at each H-Stud on both sides of wall at 600mm max. from top of Shaft Liner Panel (clips may be vertically offset from each other by 150mm max.)

J-track fixed back to back at 600mm max. centres (butt neatly together at joins)
Roof battens
Non-combustible roofing
Roof framing
Structural framing

Fill void between battens with Bradford Fireseal Party Wall Sealer, 300mm min. width
External cladding system to project specifications
Wall Clips to each H-Stud on both sides of wall at 600mm max. from top of Shaft Liner Panel (clips may be vertically offset from each other by 150mm max.)
Gyprock Shaft Liner Panels installed vertically. Refer to alternative details for horizontal installation
16mm Gyprock Fyrcheck laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres

Nominal 10mm gap to top of Gyprock Shaft Liner Panel (track optional)

600mm max.

200mm min.

4mm minimum gap

40-40mm gap each side of Party Wall

Required acoustic insulation 75mm min. Bradford Gold batts

Gyprock Shaft Liner Panel

Wall Clips at each H-Stud both sides of wall

J-track fixed back to back at 600mm max. centres (butt neatly together at joins)

Required acoustic insulation 75mm min. Bradford Gold batts

Figure 30: Roof Overhang With Party Wall To Underside Of Upper Roof Line
Refer to the Party Wall System Table for wall lining and insulation.

- **16mm Gyprock Fyrckek laminated to Shaft Liner Panel**

External cladding system with FRL 60/60/60 from outside. (Refer to The Red Book for details)

External eave with FRL 60/60/60

Roofing

- **100mm min.**
- **300mm max.**

Fill void at top of wall with Bradford Fireseal Party Wall Sealer

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

- **200mm min.**

- **4mm min. gap**

- **20-40mm gap each side of Party Wall**

Gyprock® Party Wall Design & Installation Guide
Figure 32: Roof Void With Horizontal & Vertical Panels – Party Wall Parallel to Truss/Rafter (Front Elevation)

- Aluminium straps at 600mm max. cts, both sides of wall, offset and fixed to top chord and J-track.
- Wall framing each side of party wall.
- Truss bottom chord.
- Offset H-Studs permitted in top panel row.
- Truss framing each side of party wall.
- J-track fixed back to back at 600mm max. centres (butt neatly together at joins).
- Trimmer placed in trusses each side of wall to allow fixing of wall clips.
- Wall clips at all H-Stud, both sides of wall.
- J-track required to top of horizontal shaft liner panel.
- Fill void between battens with Bradford Fireseal Party Wall Sealer, 300mm min. width.
- 16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres.
- Roof sarking (for roofs without sarking, protect Fireseal with damp course under roofing).
- Gyprock Shaft Liner Panel installed vertically.
- Gyprock Shaft Liner Panel installed horizontally 600mm max.
- Wall clips at all H-Stud, both sides of wall.
- Wall framing.
- 100mm max.
- 200mm min.
- 30mm min. width.
Wall Clips each side of wall at 600mm max horizontal centres fixed to roof framing and H-studs (clips may be vertically offset on opposite sides of wall by 150mm max.)

Refer to horizontal or vertical panel installation requirements

J-track fixed back to back at 600mm max. centres (butt neatly together at joins)

Trimmer placed in trusses each side of wall to allow fixing of wall clips

Gyprock Shaft Liner Panel installed vertically

Wall clips at all H-studs both sides of wall

Fill void between battens with Bradford Fireseal Party Wall Sealer, 300mm min. width

J-track to top of shaft liner panel required with horizontal panel installation

16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres

100mm max.

200mm min.

4mm min. gap

20-40mm gap each side of wall
Figure 34: Roof Void With Horizontal Over Vertical Panels – Party Wall Perpendicular to Truss/Rafter (Front Elevation)

Wall Clips fixed to truss/rafter and J-track each side of wall at 600mm max horizontal spacing (clips may be vertically offset on opposite sides of wall by 150mm max.) – alternatively install trimmers and clips

Roof sarking (for roofs without sarking, protect Fireseal with damp course)

Nominal 10mm gap to top of Gyprock Shaft Liner Panel (roof battens each side of wall shown with dashed lines)

Fill void between battens with Bradford Fireseal Party Wall Sealer, 300mm min. width

Gyprock Shaft Liner Panel installed horizontally 600mm max.

Offset H-Studs permitted in top panel row

16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres

Trimmer placed between trusses each side of wall to allow fixing of wall clips

J-track required to top of horizontal shaft liner panel

Truss framing each side of party wall

J-track fixed back to back at 600mm max. centres (butt neatly together at joins)

Gyprock Shaft Liner Panel installed vertically 200mm min.

Wall Clips to each H-Stud on both sides of wall

Wall framing each side of party wall

200mm min.

Nominal 10mm gap to top of Gyprock Shaft Liner Panel (roof battens each side of wall shown with dashed lines)

Fill void between battens with Bradford Fireseal Party Wall Sealer, 300mm min. width

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Roof battens
Non-combustible roofing
Gyprock® Shaft Liner Panel
Refer to Party Wall System Table for wall lining and insulation
16mm Gyprock Fyrchek laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. cts
20-40mm gap each side of Party Wall
100mm max.
Wall Clips each side of wall at 600mm max. centres fixed to roof framing and H-studs (clips may be vertically offset on opposite sides of wall by 150mm max.)
J-track fixed back to back at 600mm max. centres (butt neatly together at joins)
Required acoustic insulation 75mm min. Bradford Gold batts
Wall Clips at each H-Stud both sides of wall
Gyprock Shaft Liner Panel
Figure 35: Roof Void With Horizontal Over Vertical Panels – Party Wall Pependicular to Truss/Rafter (Side Elevation)
Non-combustible roofing
Non-combustible anti-ponding board with sarking over
Roof framing
Fascia board
Soffit bearer
P140 track to outer end of fire barrier
Fire barrier of Gyprock Shaft Liner Panel framed in P140 track
Cemintel Eaves Lining Sheet
Fill voids between battens at top of wall with Bradford Fireseal Party Wall Sealer, 300mm min. width
Aluminium straps each side of fire barrier, offset and fixed to J-track and framing
H-studs at 600mm max. cts for eaves over 600mm high or over 1200mm wide
Aluminium straps each side of party wall, offset and fixed to P140 track and studs
Screw fix all connections
Soffit bearer
J-track framing to suit Shaft Liner Panel
Bradford Fireseal Party Wall Sealer, full height of cladding and fill gap above cladding
Gyprock Shaft Liner Panel within P140 steel track
Gyprock Party Wall System
Party Wall framing each side of fire barrier
Leave 10mm gap between top of fire barrier and underside of battens and fill all gaps with Bradford Fireseal Party Wall Sealer
P140 track continuous and fixed to next H-stud from fascia
Rafter or truss
Wall wrap
Figure 36: Eaves Detail – Front Elevation – Appraisal: Refer to BCA
Figure 37: Eaves Detail – Outside End Elevation – Appraisal: Refer to BCA
Timber or steel stud wall framing

External cladding system fixed to studs

External cladding system fixed to studs

External cladding system fixed to studs

Required acoustic insulation, minimum R1.5 Bradford Gold batts

Required acoustic insulation, minimum R1.5 Bradford Gold batts

Required acoustic insulation, minimum R1.5 Bradford Gold batts

Wall wrap as required

Wall wrap as required

Rondo P140 track vertically at outer ends of party wall (allow 50mm gap to cladding). Fill gap with Bradford Fireseal Party Wall Sealer

Rondo P140 track vertically at outer ends of party wall (allow 50mm gap to cladding). Fill gap with Bradford Fireseal Party Wall Sealer

Wall clips or straps at wall end

Wall clips or straps at wall end

Control joint opposite Gyprock Shaft Liner Panel (optional)

Control joint opposite Gyprock Shaft Liner Panel (optional)

Refer to System Table for wall lining and insulation

Refer to System Table for wall lining and insulation

10mm Gyprock Standard Plasterboard

10mm Gyprock Standard Plasterboard

10mm Gyprock Standard Plasterboard

10mm Gyprock Standard Plasterboard

Insulation

Insulation

Insulation

Insulation

Timber or steel stud wall framing

Timber or steel stud wall framing

Steel angle 35x35mm or additional stud for plasterboard fixing

Steel angle 35x35mm or additional stud for plasterboard fixing

UNIT A INTERNAL AREA

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

UNIT B INTERNAL AREA

EXTERNAL AREA

EXTERNAL AREA

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

EXTERNAL AREA

EXTERNAL AREA

Figure 38: Junction Of Party Wall And External Wall With Lightweight Cladding Direct Fixed to Studs – Plan View

Figure 39: Junction Of Party Wall And External Wall With Lightweight Cladding Direct Fixed to Studs – Plan View

Gyprock® Party Wall Design & Installation Guide
Non-fire rated wall
external wall with
Cemintel Territory
cladding system

Gyprock Party
Wall System with
FRL 60/60/60

Additional blocking
Aluminium strap at
bottom plate and at
3000mm max. vertical
cuts (fixed to framing)

Aluminium angle
fixed to frame and blocking

15mm clip cavity

UNIT A INTERNAL AREA

Timber or steel
stud framing
Refer to System
Table for wall lining
and insulation

 required acoustic
insulation, minimum
R1.5 Bradford Gold
batts

Required acoustic
insulation, minimum
R1.5 Bradford Gold
batts

Wall wrap
Wall Clips at each
H-Stud, both sides

UNIT B INTERNAL AREA

Fill gap full height of
wall with Bradford
Fireseal Party Wall
Sealer

UNIT A INTERNAL AREA

Gyprock Party
Wall System with
FRL 60/60/60

Timber or steel
stud framing
Refer to System
Table for wall lining
and insulation

required acoustic
insulation, minimum
R1.5 Bradford Gold
batts

Required acoustic
insulation, minimum
R1.5 Bradford Gold
batts

Wall wrap
Wall Clips at each
H-Stud, both sides

UNIT B INTERNAL AREA

Hebel AAC or steel
sheet external
cladding system

Aluminium strap at
bottom plate and at
3000mm max. vertical
cuts (fixed to framing
and J-track)

Sealant filled
control joint

Cladding battens to
system specifications

Additional studs
as needed

EXTERNAL AREA

FRL 60/60/60

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External cladding system on battens

Gyprock Party Wall System with FRL 60/60/60 Aluminium strap at bottom plate and at 3000mm max. vertical cts (fixed to framing and J-track)

Control joint (optional location)

Cladding battens to system specifications

Wall wrap

UNIT A INTERNAL AREA

Gyprock Party Wall System with FRL 60/60/60

Timber or steel stud wall framing

Refer to System Table for wall lining and insulation

Fill gap full height of wall with Bradford Fireseal Party Wall Sealer

Required acoustic insulation, minimum R1.5 Bradford Gold batts

UNIT B INTERNAL AREA

Wall Clips at each H-Stud, both sides

Required acoustic insulation, minimum R1.5 Bradford Gold batts

UNIT A INTERNAL AREA

10mm Gyprock Standard Plasterboard

Masonry veneer

Control joint opposite Gyprock Shaft Liner Panel

150mm min.

UNIT B INTERNAL AREA

Wall Clips at each H-Stud, both sides

Fill gap full height of wall with Bradford Fireseal Party Wall Sealer

10mm Gyprock Standard Plasterboard

Timber or steel stud wall framing

Required acoustic insulation, minimum R1.5 Bradford Gold batts

EXTERNAL AREA

EXTERNAL AREA

UNIT B INTERNAL AREA

Masonry veneer

Control joint opposite Gyprock Shaft Liner Panel

150mm min.

UNIT B INTERNAL AREA

Wall Clips at each H-Stud, both sides

Fill gap full height of wall with Bradford Fireseal Party Wall Sealer

10mm Gyprock Standard Plasterboard

Timber or steel stud wall framing

Required acoustic insulation, minimum R1.5 Bradford Gold batts

EXTERNAL AREA

Figure 42: Junction Of Party Wall And External Wall With Cemintel Cladding System on Battens – Plan View

Figure 43: Junction Of Party Wall And External Brick Veneer Wall – Plan View
**External Cladding System**

- **10mm Gyprock Standard Plasterboard**
- **Optional Insulation**

**Refer to System Table for wall lining and insulation**

**Timber or Steel Stud Wall Framing**

- **200mm min.**

**Optional Insulation**

- **External Masonry Veneer Wall**

**16mm Gyprock Fyrchek for full height of wall laminated to Gyprock Shaft Liner Panel with laminating screws at 400mm x 400mm max. centres**

**Control Joint with Backing Rod and Sealant**

1. For walls without wall wrap, protect the cavity seal with damp course against the brickwork
2. Cavity Seal may be inside sarking

**Wall Wrap**

- **Rondo P140 Track Vertically at Outer Ends of Wall with Aluminium Straps or Clips Both Sides Fixed to Framing and J-Track**

**Filament Gap Full Height of Wall with Bradford Fireseal Party Wall Sealer 150 x 150mm Min.**

**Figure 44: Junction of Nib Party Wall and External Wall with Lightweight Cladding – Plan View**

**Figure 45: Junction of Party Wall and External Wall with Brick Veneer at Wall Return – Plan View**
Non-fire rated wall

Party Wall System with FRL 60/60/60

Timber or steel stud wall framing

Optional insulation

10mm Gyprock Standard Plasterboard

Required acoustic insulation, minimum R1.5 Bradford Gold batts

Wall Clips at each H-Stud, both sides

Refer to System Table for wall lining and insulation

External cladding system

Control joint

Seal Party Wall to cladding with CSR fire rated sealant

Timber or steel stud wall framing

Rondo P140 track vertically at outer ends of wall with aluminium straps or clips both sides fixed to framing and J-track

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

UNIT A EXTERNAL AREA

UNIT B INTERNAL AREA

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

UNIT A EXTERNAL AREA

UNIT B INTERNAL AREA

UNIT A EXTERNAL AREA

Figure 46: Junction Of Party Wall And External Wall With Lightweight Cladding At Wall Return – Plan View

Figure 47: Junction Of Party Wall And External Wall With Lightweight Cladding System Direct Fixed to Framing – Plan View
Timber or steel stud wall framing

Wall Clips at each H-Stud, both sides
Refer to System Table for wall lining and insulation

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

Timber or steel stud wall framing
Gyprock Shaft Liner Panel

Refer to System Table for wall lining and insulation
Wall Clips at each H-Stud, both sides

UNIT A EXTERNAL AREA

UNIT B EXTERNAL AREA

Optional insulation
Gyprock plasterboard
Set joints with paper tape and compound

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

Wall Clips at each H-stud, both sides
Timber or steel stud wall framing

UNIT A EXTERNAL AREA

UNIT B EXTERNAL AREA

Gyprock Party Wall system with Wall Clips at each H-stud, both sides
Rondo P140 track vertically at end of wall fixed back-to-back at 400mm max. cts
Seal junction with CSR fire rated sealant

7.5mm Cemintel Texture Base Sheet system with all recessed edges taped and set and installed to manufacturer’s specifications
Wall wrap
Aluminium straps at bottom plate (fixed to framing and J-track)
Insulation to system specifications

Set joints with paper tape and compound

Refer to System Table for wall lining and insulation

UNIT A INTERNAL AREA

UNIT B INTERNAL AREA

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Figure 50: Cantilevered Construction Overview – Timber And Steel Framing

- Party Wall support brackets welded to cantilevered steel beams
- Floor joists to project engineer’s specifications
- PFC cantilevered beams to project engineer’s specifications
- Support and backspan columns to project engineer’s specifications
Gyprock Party wall system with clips at all H-studs each side of wall

16mm Gyprock fire grade plasterboard laminated to Shaft Liner Panel

200mm min.

Timber or steel framing

PFC beam, span backspan and fixings to project engineer’s specifications

125x100x6mm flat bar each side and offset, spaced at 600mm max. ctrs, welded to one channel all around with 5mm CFW

Fibre cement sheet ceiling 6mm min. thickness

Framing to project specifications

Blocking

Joist

Fill void with Bradford Fireseal Party Wall Sealer

J-track

Furring channel and clips

Required acoustic insulation 75mm min. Bradford Gold batts

Figure 51: Cantilevered Level Soffit – With Cantilevered PFC Beams – End Elevation View

Figure 52: Cantilevered Stepped Soffit – With Cantilevered PFC Beams – End Elevation View
16mm Gyprock fire grade plasterboard laminated to Shaft Liner Panel

Gyprock Party wall system with clips at all H-studs each side of wall

200mm min.

Timber or steel framing

NOTE: Angles should be fixed to joist prior to beam placement due to restricted access

Cantilevered joist

Furring channel and clips

Required acoustic insulation 75mm min. Bradford Gold batts

125x75x6mm x 100mm min. length gal. steel angles each side and offset, spaced at 600mm maximum centres fixed to framing to project engineer’s specifications to support Shaft Liner Panel

Fill void with Bradford Fireseal Party Wall Sealer

Fibre cement sheet ceiling 6mm min. thickness

Cantilevered joist

J-track

20-40mm

30-40mm

200mm min.

16mm Gyprock fire grade plasterboard laminated to Shaft Liner Panel

Gyprock Party wall system with clips at all H-studs each side of wall

600mm max.

NOTE: Angles should be fixed to joist prior to beam placement due to restricted access

Fibre cement sheet ceiling 6mm min. thickness

Cantilevered joist

J-track

20-40mm

30-40mm

200mm min.

16mm Gyprock fire grade plasterboard laminated to Shaft Liner Panel

Gyprock Party wall system with clips at all H-studs each side of wall

125x75x6mm x 100mm min. length gal. steel angles each side and offset, spaced at 600mm maximum centres fixed to framing to project engineer’s specifications to support Shaft Liner Panel

Fill void with Bradford Fireseal Party Wall Sealer

Fibre cement sheet ceiling 6mm min. thickness

J-track

Recent ZURU acquisition

Gyprock® Party Wall Design & Installation Guide

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Everything else is just plasterboard

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