

Party Wall Design & Installation



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Introduction

The CSR Gyprock® Party Wall system is designed to provide a separating wall often known as intertenancy walls 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 Gyprock Shaft Liner MP 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 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 $R_w + C_{tr} = 50$ 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 $R_w + C_{tr}$ 50 and discontinuous construction.
- Room linings installed as for non-rated systems.
- No setting joints of central fire barrier.
- Gyprock Shaft Liner MP suitable for mould resistance during construction.
- 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

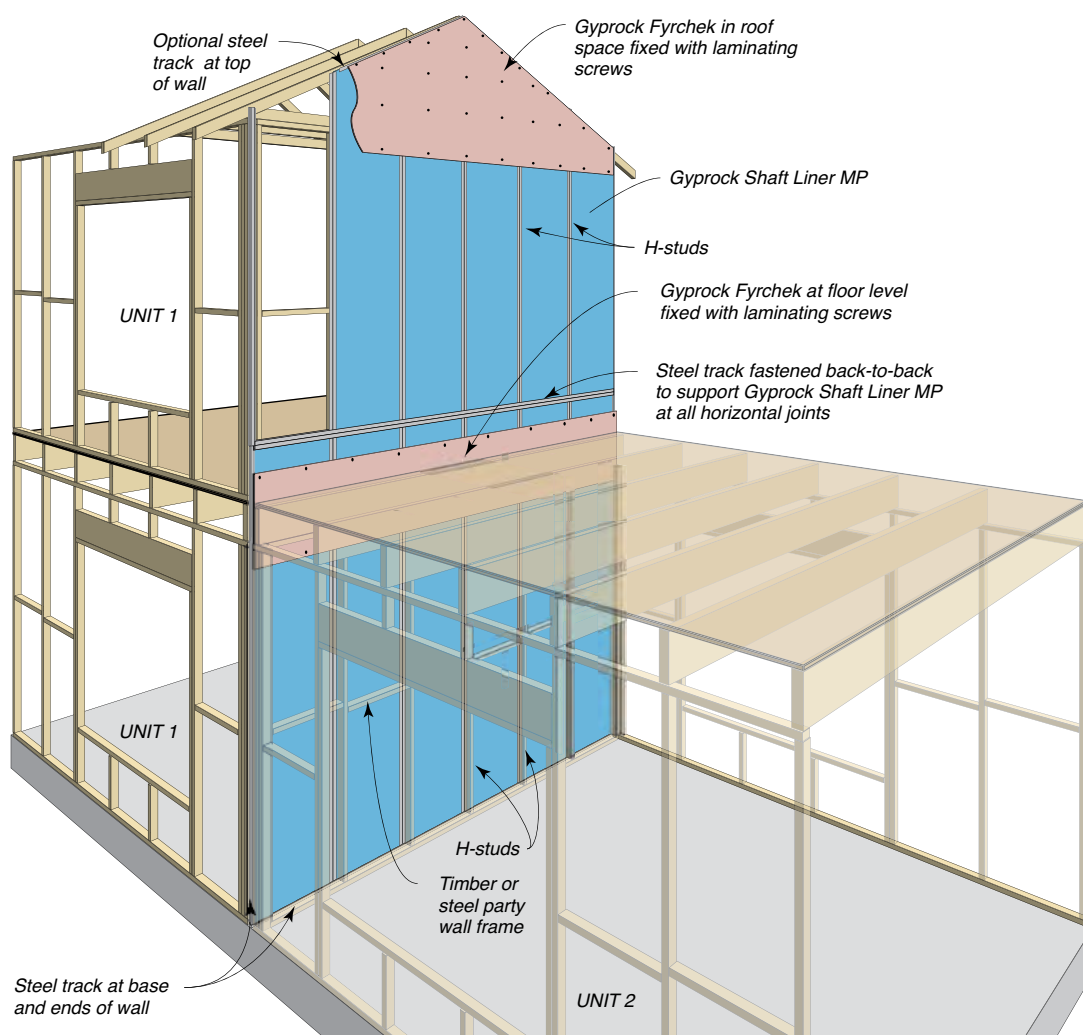
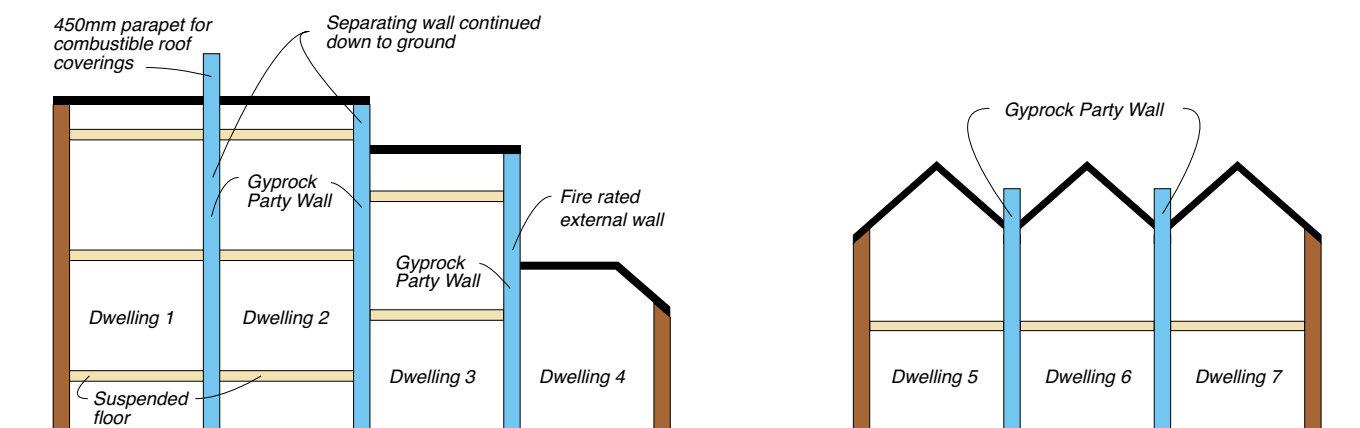


Figure 2: Typical Gyprock Party Wall Applications For Class 1 Buildings



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). Gyprock Shaft Liner MP 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											
GYPROCK® PLASTERBOARDS	APPLICATIONS – WALLS & CEILINGS	THICK- NESS (mm)	MASS kg/m²	FIRE GRADE	MOISTURE RESISTANT	ENHANCED IMPACT RESISTANCE	ENHANCED SOUND RESISTANCE	MOULD RESISTANT	LOW VOC	GECA ACCREDITED	
	FEATURES										
RESIDENTIAL – SELECT RANGE											
Plus™	- 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. - 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. - Optimised Core technology delivers improved handling and installed performance, as well as crisper score and snap.	10	5.7						✓		
Supaceil™	- 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. - 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. - Optimised Core technology delivers improved handling and installed performance, as well as crisper score and snap.	10	6.1 6.2 WA only						✓		
Aquachek™	- 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.	10	7.1		✓				✓		
RESIDENTIAL – SPECIALTY OPTIONS											
HD	- Manufactured with a high density core and heavy duty liner paper to provide enhanced impact and acoustic resistance. - Will span 600mm in ceiling applications. 75% more impact resistant compared to standard plasterboard. - Denser core to provide a reduction in sound transmission compared to standard 10mm thick plasterboard. - Long edges are recessed for flush jointing.	10	8.5			✓	✓		✓		
COMMERCIAL – SELECT RANGE											
Standard Plasterboard	RE – Recessed Edge Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed.	13	8.5						✓		
	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. - One long edge is square to enable easy fixing of skirting and cornice at the top and bottom of walls.	13	8.5						✓		
	SE – 2 Square Edges Long edges are square, and can be butted together without jointing, or covered with aluminium, timber or vinyl mouldings.	13	8.5						✓		
Aquachek™	- 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.	13	9.8		✓				✓		
Soundchek™	- 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.	13	13.0				✓		✓		

Table 1: GYPROCK PLASTERBOARD FEATURES, APPLICATIONS & SPECIFICATIONS

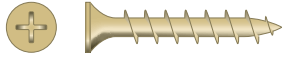
GYPROCK® PLASTERBOARDS	APPLICATIONS – WALLS & CEILINGS	THICK- NESS (mm)	MASS kg/m²	FIRE GRADE	MOISTURE RESISTANT	ENHANCED IMPACT RESISTANCE	ENHANCED SOUND RESISTANCE	MOULD RESISTANT	LOW VOC	GECA ACCREDITED
	FEATURES									
Impactchek™	- Fire grade board reinforced with a woven fibreglass mesh to produce a high strength plasterboard which resists hard and soft body impact damage. - Ideal for high traffic areas such as hallways, stairways, playrooms and garages. - Long edges are recessed for flush jointing.	13	10.5	✓		✓✓	✓		✓	
Fyrchek™	- 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.	13	10.8	✓			✓		✓	
		16	12.9							
Fyrchek™ MR	- 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.	13	11.1	✓	✓	✓		✓		
		16	13.3							
COMMERCIAL – SPECIALTY OPTIONS										
EC08™ Complete	- This product features higher levels of recycled content, making it a superior choice for Green Building projects. - Gyprock EC08 Complete is an 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.	13	12.4	✓	✓	✓	✓	✓	✓	 
		16	14.8							
EC08™ Extreme	- This product features higher levels of recycled content, making it a superior choice for Green Building projects. - Gyprock EC08 Extreme is a premium internal lining solution with a focus on superior impact resistance for hard & soft body impact, and surface indentation. It also includes an efficient mould inhibitor, moisture resistance, sound resistance and fire resistance in a low VOC plasterboard to provide multifunction performance to a wide variety of commercial projects. - Long edges are recessed for flush jointing.	13	12.5	✓	✓	✓✓	✓	✓	✓	 
Shaft Liner MP	- Fire grade board with antifungal additives to resist mould formation. - A 25mm thick sheet composed of a glass fibre reinforced gypsum core encased in a heavy duty ivory linerboard. 600mm wide square edge sheets.	25	19.8	✓			✓	✓	✓	

Components

Fasteners

Fasteners For Fixing Clips/Straps to Timber Framing

- Type S, bugle head, needle point, coarse thread screw.



Size	Pack	Qty	Order No.
6g x 25mm (softwood/hardwood)	Loose	1000	169067
	Collated	1000	162775

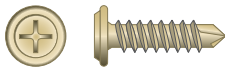
- Clouts, hot-dip galvanised for fixing Wall Clip and Aluminium Straps to timber plate.



Size (Framing)	Pack	Qty	Order No.
2.8 x 25mm (softwood/hardwood)	Loose	0.5kg	77267

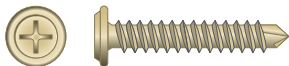
Screws For Fixing Components To Steel Framing

- Drill-point, wafer-head screw for joining J-track back-to-back, for fixing Wall Clips, Aluminium Straps and J-tracks to steel framing.



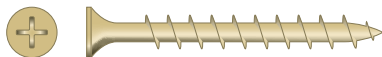
Size	Pack	Qty	Order No.
10g x 16mm	Loose	1000	169079

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



Size	Pack	Qty	Order No.
10g x 30mm	Loose	500	169080

- Type S plasterboard laminating screw, coarse thread, for fixing 16mm Gyprock Fyrchek plasterboard to Shaft Liner MP



Size	Pack	Qty	Order No.
10g x 38mm	Loose	500	109259

Bottom Plate Fasteners

- Steel fasteners, supplied by others.

Gyprock Acrylic Stud Adhesive

- Gyprock 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

Sealants

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



Pack	Qty	Order No.
Sausage	600ml	10924

- CSR FireSeal fire rated sealant for use where detailed.



Pack	Qty	Order No.
Sausage	600ml	121022

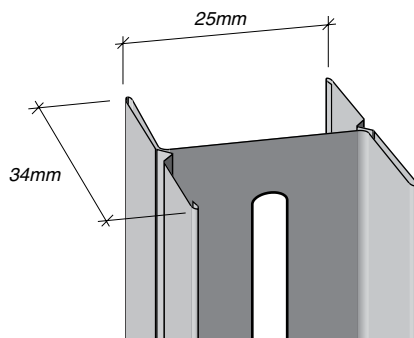
- Gyprock Wet Area Acrylic Sealant.



Pack	Qty	Order No.
Tube	450g	10902

Steel H-Stud

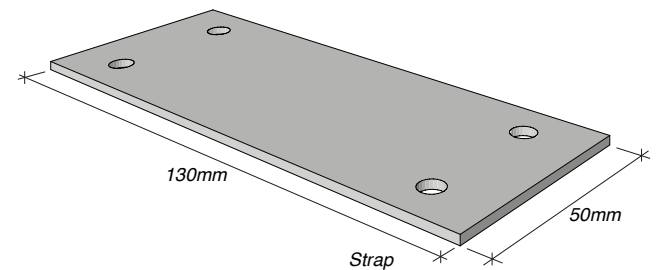
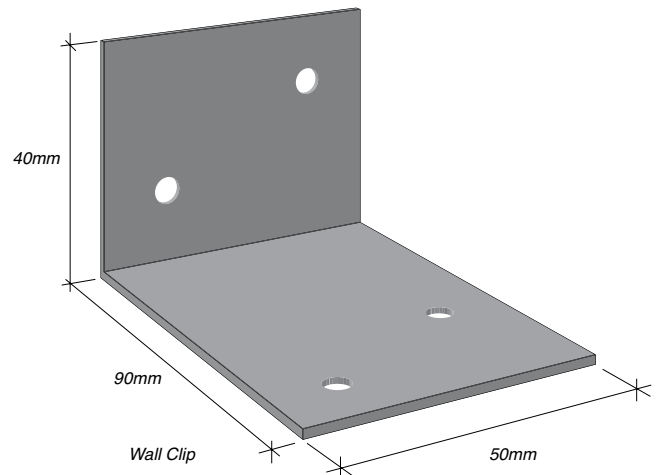
The Gyprock Party Wall System incorporates 25mm H-Studs to support the Shaft Liner MP at all vertical joints. It is made from 0.55mm BMT G275 galvanised steel.



Length	Order N°
3000mm	39156
3600mm	122926

Gyprock Aluminium Wall Clip and Strap

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

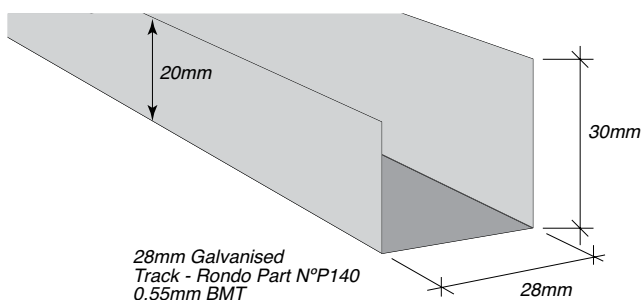


Item	Size	Order N°	Pack Qty
Clip	40 x 90 x 50mm	454513	1
Strap	130 x 50mm	193172	1

J-track

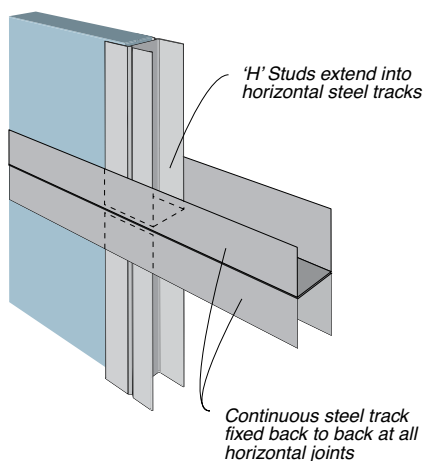
Steel J-track (Rondo N°P140) is used in the following applications:

- Support of Shaft Liner MP at the top and the bottom of the wall.
- Support of Shaft Liner MP at the ends of the wall.
- Back-to-back at all horizontal joints of Shaft Liner MP.
- Base of wall at cantilever.



Length	Order N°
3000mm	10465

Typical application detail.



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 664 653.

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.



Product	Abbreviation
75mm Bradford Gold Wall Batts R2.0	75 Gold Batts 2.0
90mm Bradford Gold Wall Batts R2.7	90 Gold Batts 2.7
50mm Bradford Acoustigard R1.2 (14kg/m ³)	50 GW Acoustigard 14kg
75mm Bradford Acoustigard R1.8 (14kg/m ³)	75 GW Acoustigard 14kg
110mm Bradford Acoustigard R2.5 (11kg/m ³)	110 GW Acoustigard 11kg
88mm Bradford Soundscreen R2.5	88 Soundscreen R2.5

Cavity seals noted as rockwool must be of minimum density 50kg/m³ such as Bradford Party Wall Sealer.

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 14m with Party Wall Clips at 2.6m maximum vertical centres, when the system's stud frames are lined with Gyprock Plasterboard.

The maximum overall height for the central fire barrier is 7m with Party Wall Clips at 2.6m maximum centres, when any of the system's stud frames are lined with fibre cement linings.

Refer to Table 2 and Table 3 for the overall wall height and lateral support (clip spacing) limitations for stud frames lined with plasterboard or fibre cement linings. Clips in locations other than floor or ceiling junctions (at periphery) do not meet the requirement for discontinuous construction, which may be acceptable in some rooms. They will also reduce the acoustic rating of the wall. Refer to Table 4 for details.

Table 2: Party Wall lateral support (clip spacing) locations for plasterboard wall linings on both sides at all levels

Overall Wall Height	'H'
Up to 14m	Max. 2.6m
Up to 12m	Max. 2.8m
Up to 10.8m	Max. 3.0m
Up to 9m	Max. 3.4m

Table 3: Party Wall lateral support (clip spacing) locations for fibre cement linings on one side or both sides

Overall Wall Height	'H'
Up to 7m	Max. 2.6m
Up to 6m	Max. 2.8m
Up to 5m	Max. 3.0m

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.

Offset of the vertical steel H-Studs is permitted at any level without compromising the stated fire rated resistance (FRL) of the Gyprock Party Wall systems.

Figure 3: Maximum Wall Height and Clip Detail

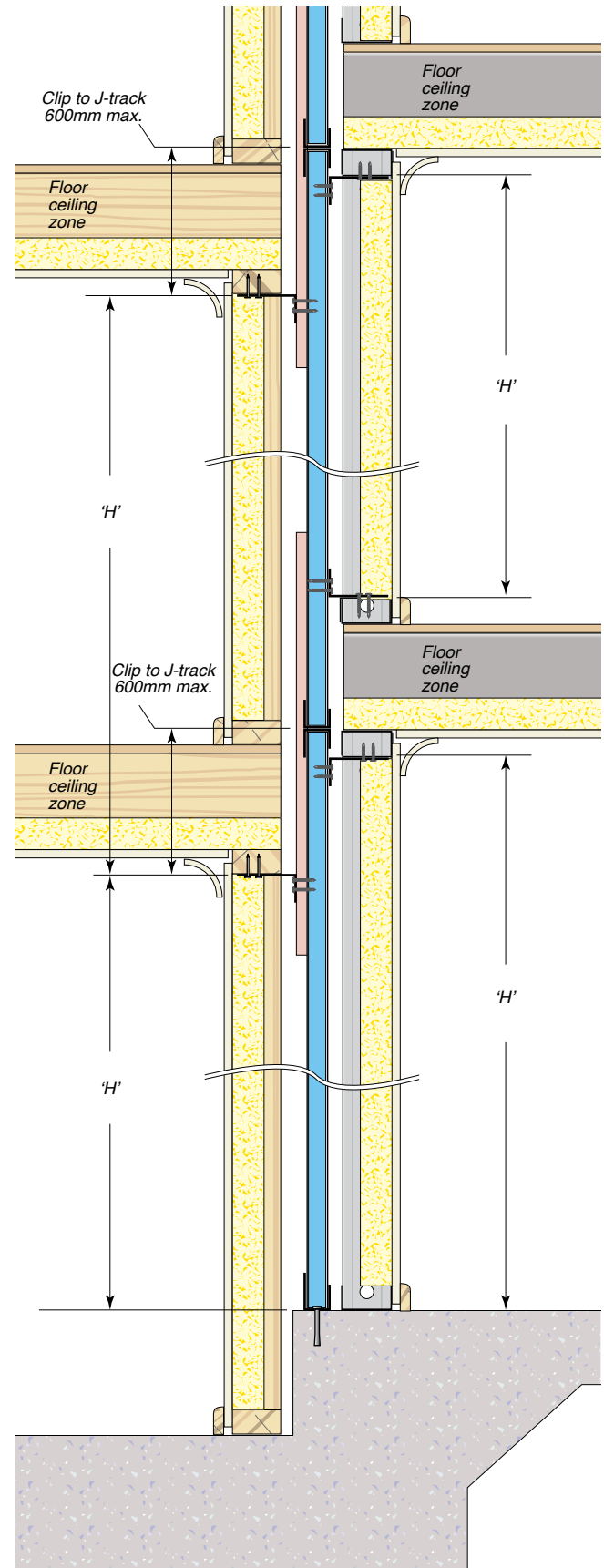
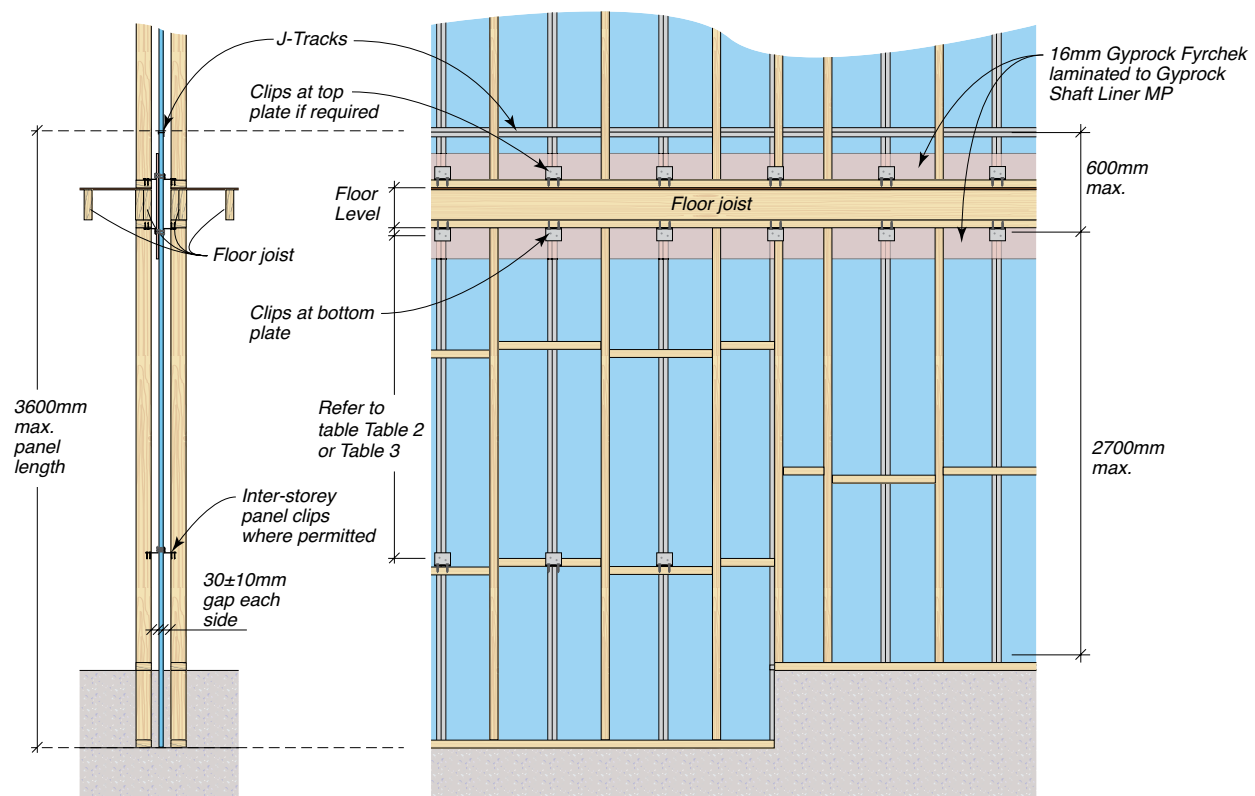


Figure 4: Details for Wall Height up to 14m



Structural Design

All walls must be designed for the applied loads, including seismic loads where applicable. Framings shall be designed in accordance with the relevant standards, for example, timber frame designed to AS1684 or AS1720.1 and steel frame 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.

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 MP. Areas with 16mm Fyrchek laminated to one side of the Shaft Liner MP 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 MP 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.

Aluminium Straps may be used instead of Wall Clips at terminating junctions.

System Selection

Refer to Gyprock The Red Book Volume 1 for an extensive range of systems with associated fire and acoustic performance values. Options are available for wet areas, for rooms requiring damage resistance, and for premium acoustic ratings.

Fire Resistance

The Gyprock Party Wall systems in this manual have been assessed by Jensen Hughes 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 (fire exposed 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 MP to maintain the rating. The aluminium clips 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 MP in the roof space only, and must be fire sealed to suit the system fire rating.

Systems lined with a single layer of non-fire rated lining (for example Gyprock 10mm Aquachek) must include Bradford glasswool or rockwool insulation to each frame to achieve the stated fire resistance.

Details for the perimeters of Party Walls adjoining roof and wall claddings are provided using rockwool or fire grade sealants. Where rockwool is used it must be compressed lightly to fill the gap between the cladding and Shaft Liner MP or J-Track. Rockwool batts may be trimmed to suit the gap dimensions. Fire grade sealant is used between the J-Track and sheet cladding, over any wall wrap.

Acoustic Performance

The acoustic performance of wall systems is expressed in terms of R_w and $R_w + C_{tr}$. 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. Refer to Table 4 for system performance where an additional row of Party Wall clips is used.

For flanking sound control, it is required that the ceiling of each story consists of plasterboard 10mm or thicker, and that the floor and roof spaces are at least 250mm in height. Insulation is required in the floor and roof space, extending 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. Similarly for flanking at the junction of the party wall with clad external walls, the external wall's interior lining must be a minimum of 10mm Gyprock plasterboard. The cavity of the external wall on each side of the party wall must be filled with insulation of at least 75mm Bradford R1.5 Gold batts for a distance of 600mm.

Ceiling penetrations must be acoustically treated in areas closer than 1.2m of Party Walls, except for LED downlights. These must be no closer than 900mm apart, with penetrations neat and tight to the fitting.

It is assumed no rating is required between the two adjoining roof or floor 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 $R_w + C_{tr} > 40$ for services in the adjoining unit.

Table 4: Acoustic rating of systems with inter-storey clips. Refer to detail			
System	Stud Depth	70	90
	Cavity Infill Both Sides	R _w /R _w +C _{tr}	
CSR 2402	90 Gold batts 2.7	61/48	62/ 50
	88 Soundscreen 2.5	62/49	63/ 51
CSR 2441	90 Gold batts 2.7	61/48	62/ 50
	88 Soundscreen 2.5	62/49	63/ 51
CSR 2445	90 Gold batts 2.7	62/49	63/ 51
	88 Soundscreen 2.5	63/ 50	64/ 52
CSR 1523	88 Soundscreen 2.5	61/48	63/ 50
CSR 1535	75 Acoustigard 14	62/ 50	63/ 51
Note: Inclusion of inter-storey clips will not meet the requirement for discontinuous construction.			

Substitution

Plasterboard, fibre cement, and insulation materials must be as specified in the construction details and system selection tables as per The Red Book 01. 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 MP and Fyrchek plasterboard are protected from rain. The use of a covering can prevent the formation of mould, and can avoid delays in allowing boards to dry before internal linings are applied. The use of Shaft Liner MP is recommended to reduce the occurrence of mould during the construction period. 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. The Level of Finish specified can have requirements for frame alignment, jointing and back blocking methods, and sheet orientation.

CeminSeal 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 CeminSeal Wallboard may be finished with tiles. Refer to the appropriate installation manual:

- The Red Book #2 - Residential Installation Guide
- The Red Book #3 - Commercial & Multi-Residential Installation Guide
- Cemintel Wet Area Systems
- Cemintel Wallboard on Steel

Fyrchek Laminated Layer

The installation of Fyrchek laminated to the central Shaft Liner MP 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.
- Other areas where wall linings are omitted such as at built-in baths.

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

Vertical joints between the laminated layer should be positioned so that they do not coincide with vertical H-stud locations. The sheet joins must be neatly formed, and gaps up to 3mm wide need not be filled or set.

The Fyrchek laminated layer must be fixed with laminating screws at spacings detailed the installation diagram Figure 39 and Figure 40.

The Fire Resistance Level (FRL) of the systems will not be detrimentally affected by the use of Fyrchek MR, or EC08 range plasterboard in lieu of Fyrchek plasterboard of the same thickness.

Services

CSR Gyprock 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.

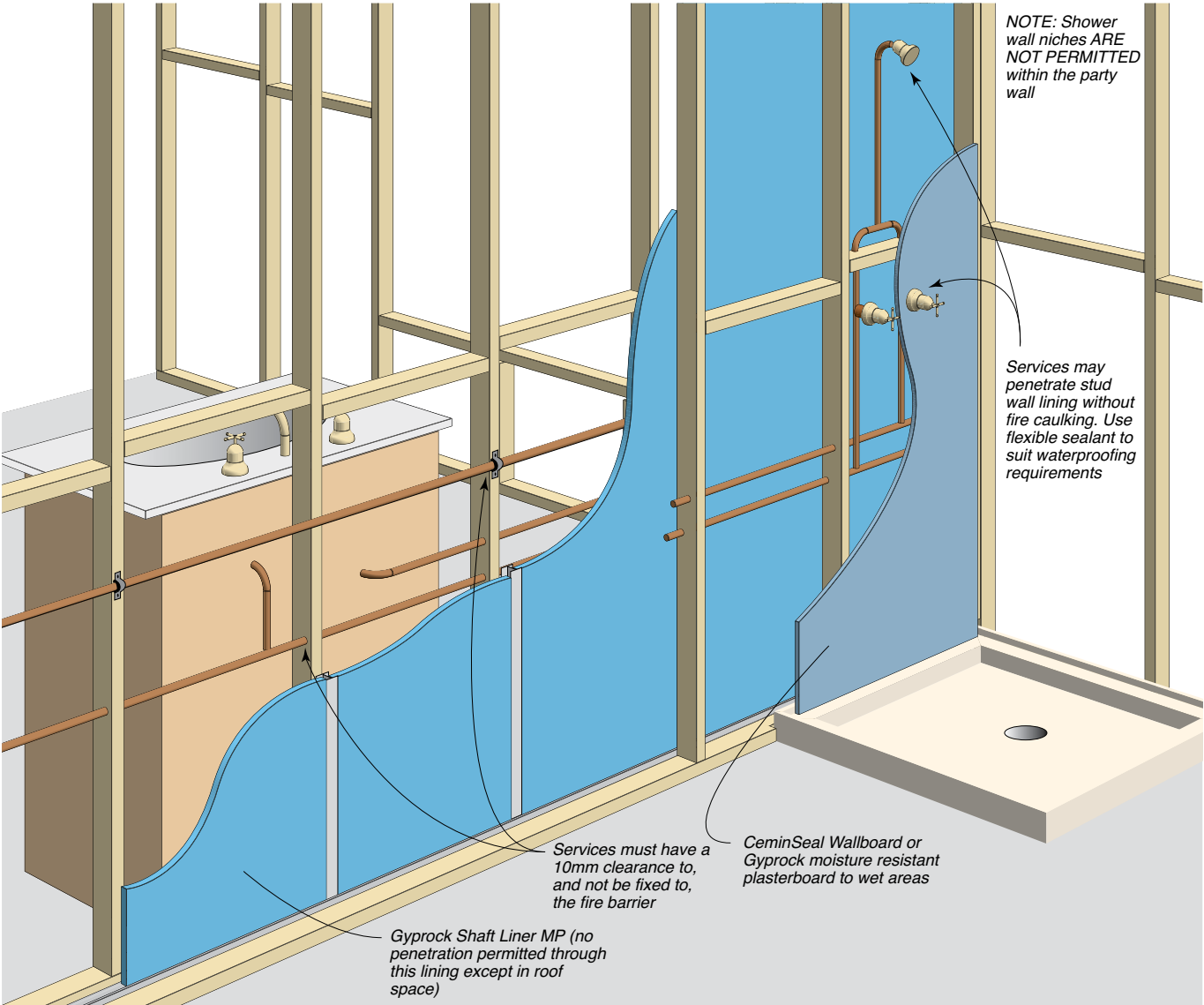
No penetrations are permitted through the central fire barrier, except within the roof space where they must be fire sealed.

Systems have been fire tested with services including PVC (65mm max. diameter), copper plumbing, GPO's 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 MP barrier, and may be fixed to the back of studs. Simply prepare neat cut holes with a 6mm maximum clearance.

Bath tubs may be built-in on each side of a Party Wall system as detailed without reducing the acoustic performance. The bath material must consist of steel at least 1.0mm thick, or acrylic of at least 5.0mm thick.

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

Figure 5: Typical Penetration Features

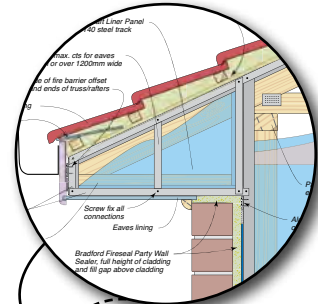
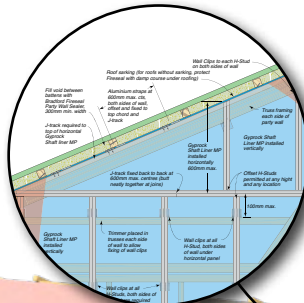
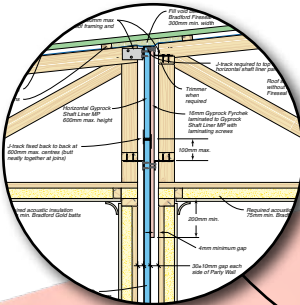


Gyprock Party Wall Overview

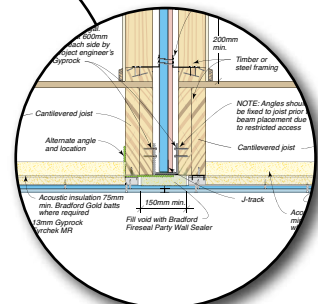
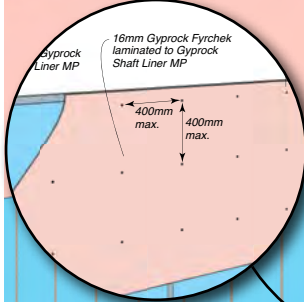
Roof and ceiling details.
Refer to Figure 51

Eaves details.
Refer to Figure 57

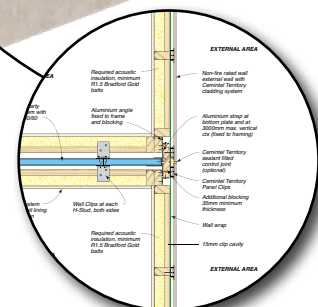
Roof and ceiling details.
Refer to Figure 56



Party Wall Junction details.
Refer to Figure 39 & Figure 40

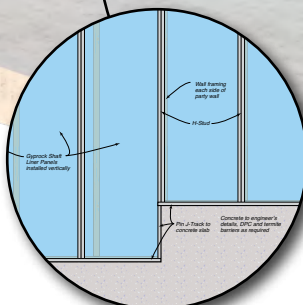


Cantilevered level soffit details. Refer to Figure 75

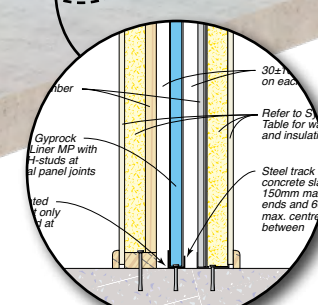


Junction of Party Wall and external walls. Refer to Figure 61

Step down details.
Refer to Figure 55



Base details.
Refer to Figure 10



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 6: Ground Floor Fire Barrier Installed

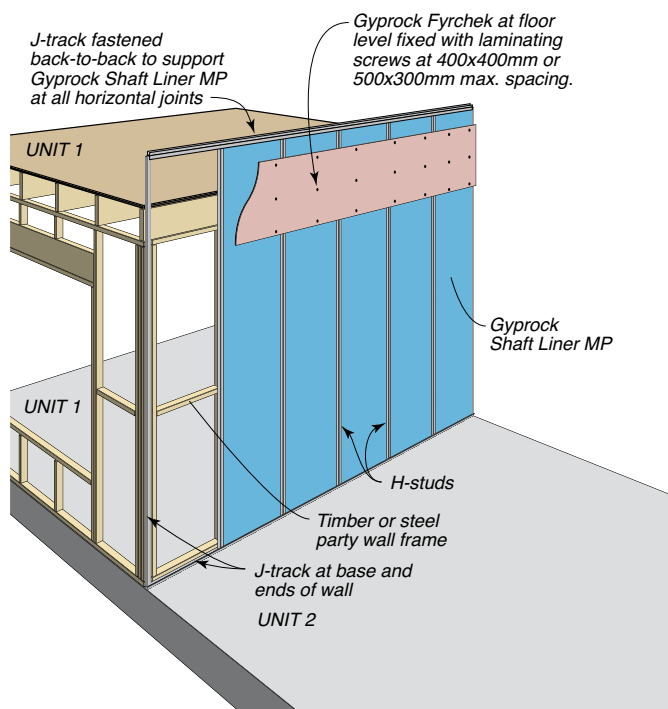


Figure 7: Unit 2 Frame And Floor Installed

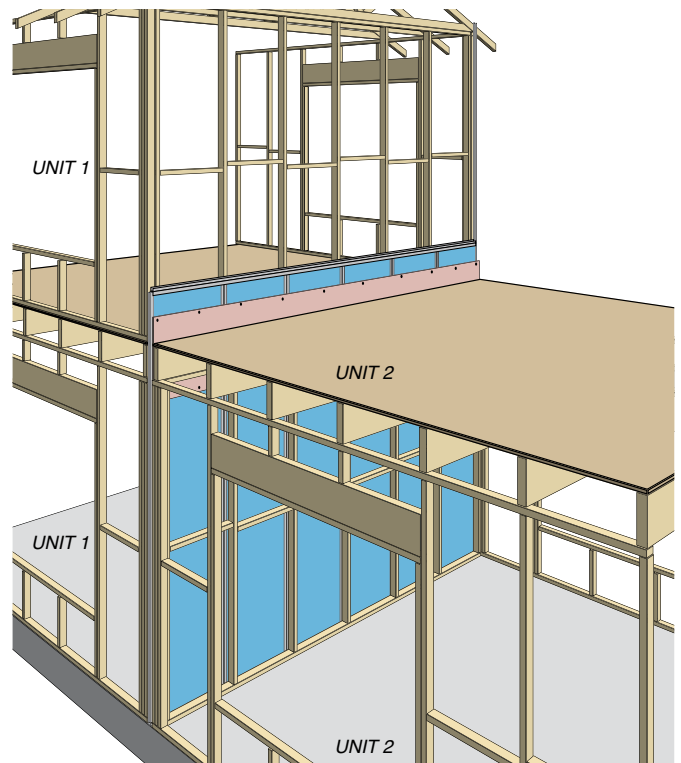


Figure 8: First Floor Fire Barrier Installed

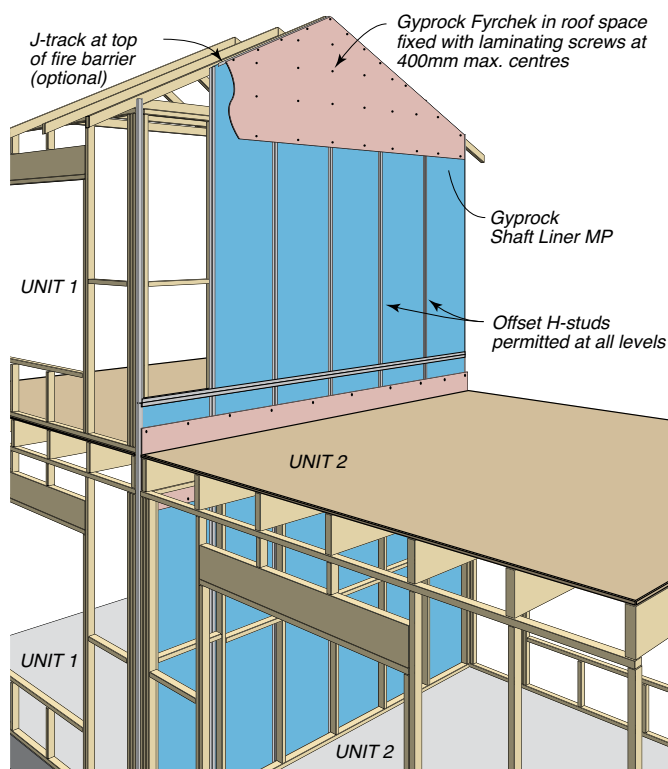
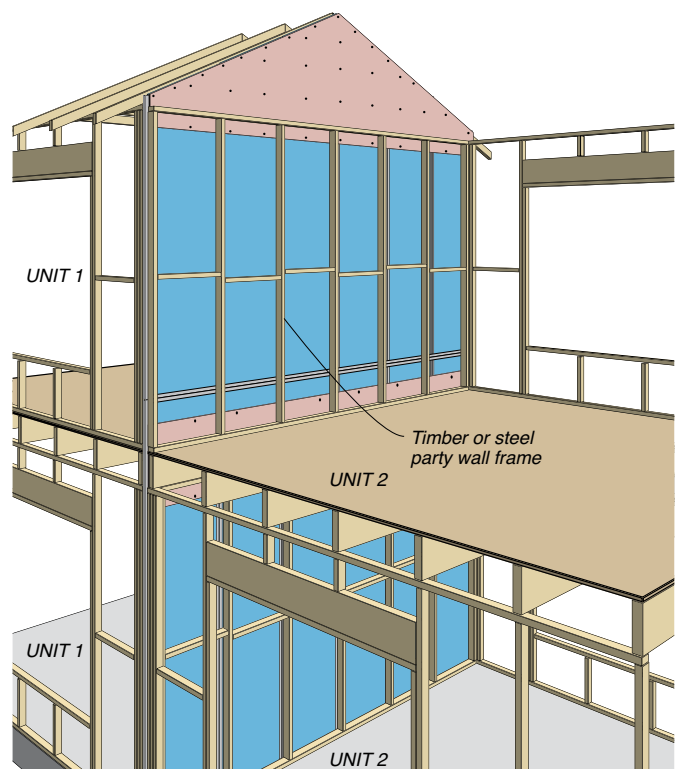


Figure 9: Unit 2 First Floor Framing Installed



Typical Construction Details

Fire appraisal WF 45743, unless noted otherwise.

Figure 10: Base At Flat Slab With Pinned J-Track

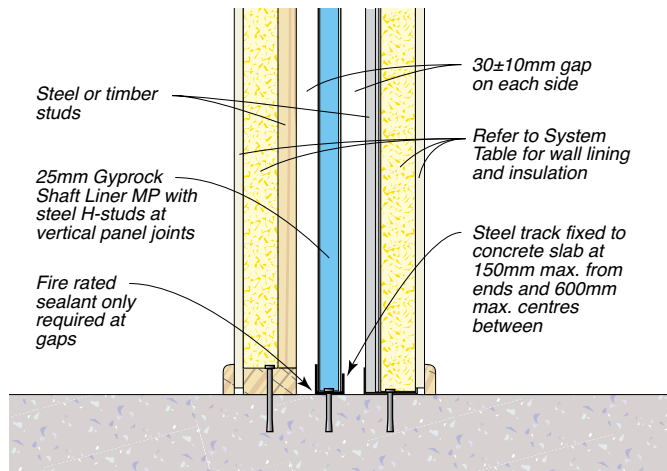


Figure 11: Alternative Base With Clips

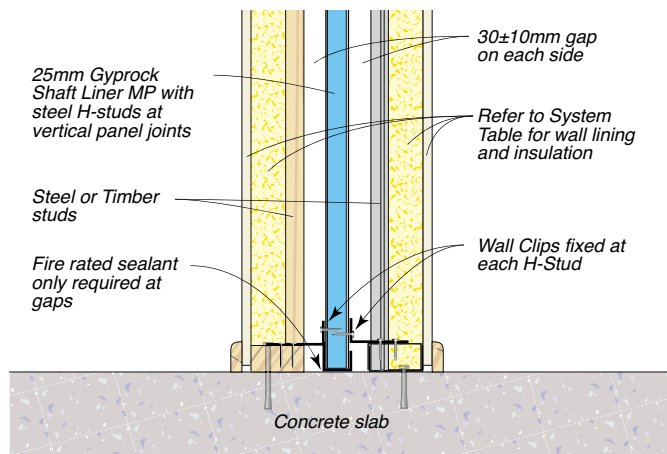


Figure 12: Base Detail At Framed Floor

Approval: EWFA 45743 UNO

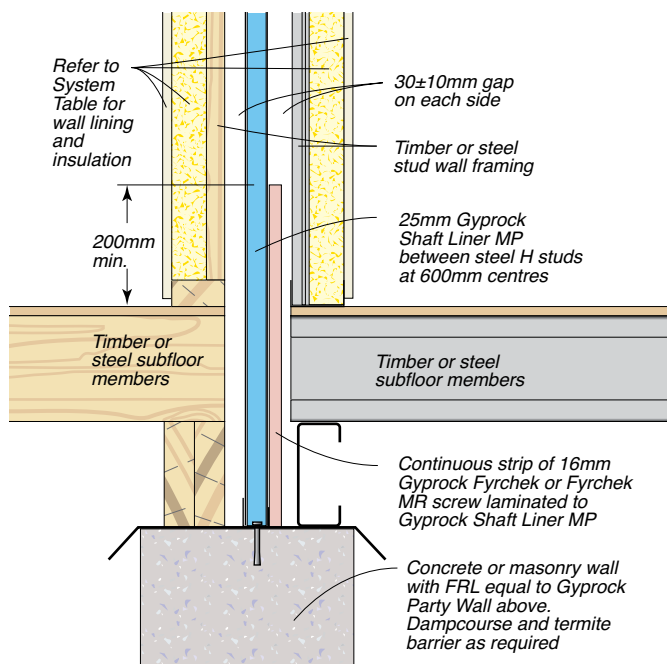


Figure 13: Base At Stepped Slab

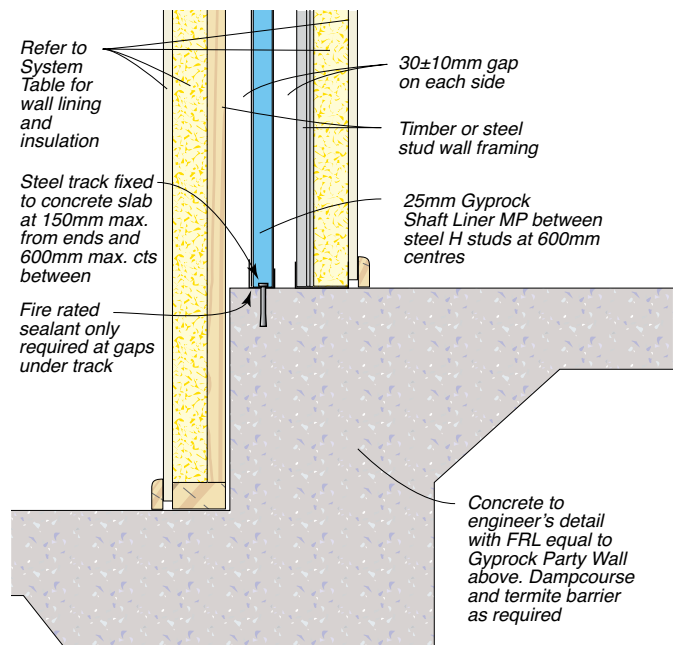


Figure 14: Base At Stepped Slab

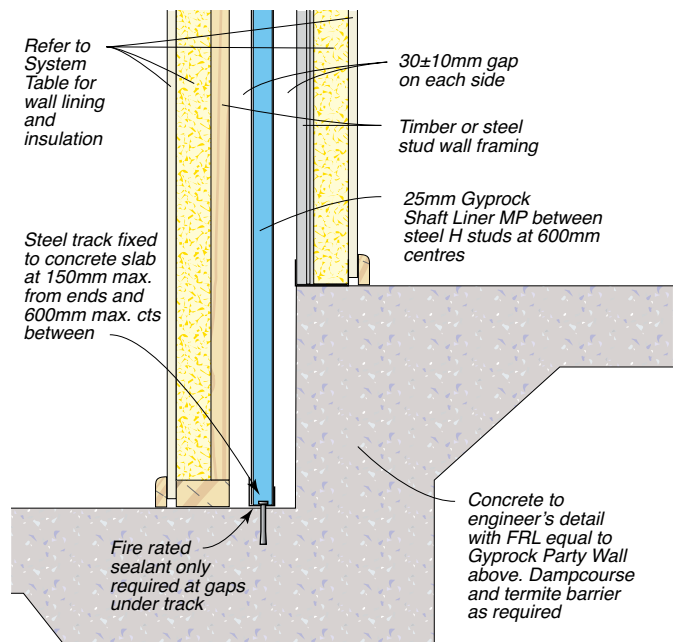


Figure 15: Party Wall over Masonry Wall - Section view

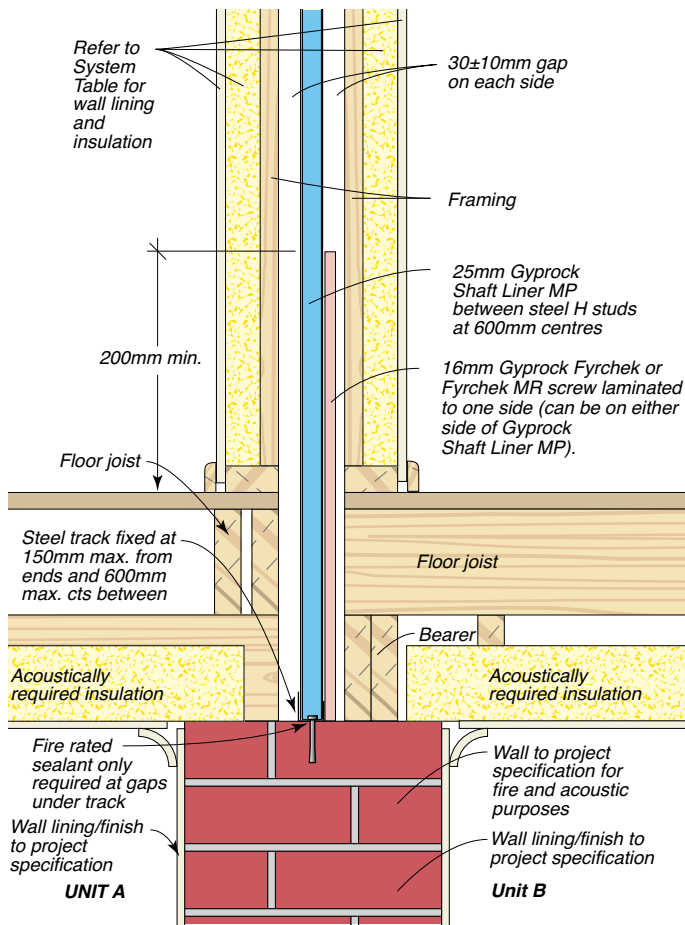


Figure 16: Fixing Of Wall Clip to Timber Stud Framing And H-stud

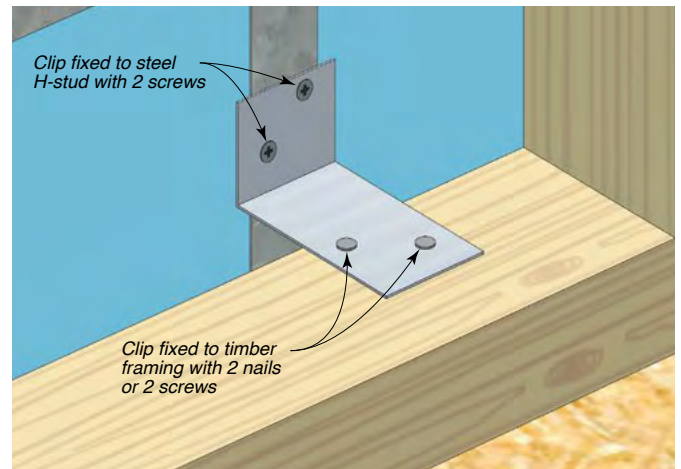


Figure 17: Fixing Of Wall Clip to Steel Stud Framing And H-stud

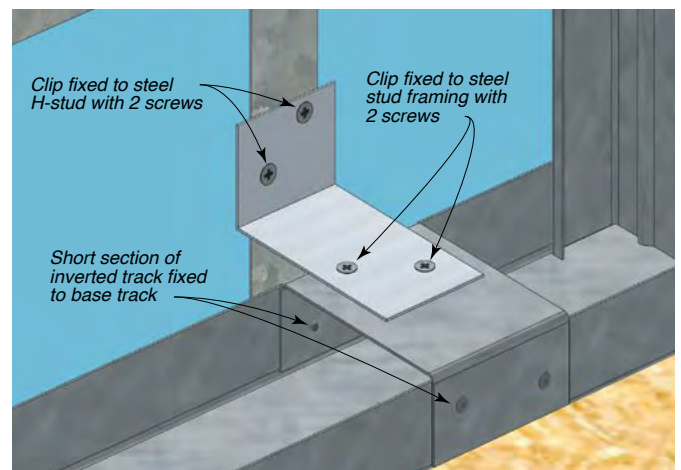


Figure 18: Fixing Aluminium Straps At End Of Wall

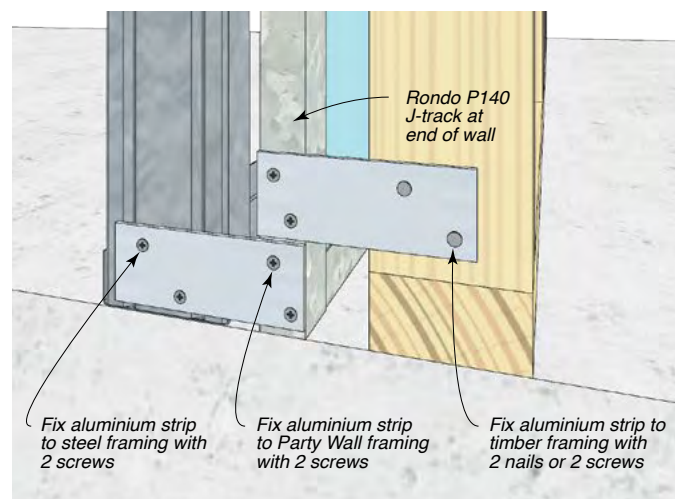


Figure 19: Clip on Stud Option 1

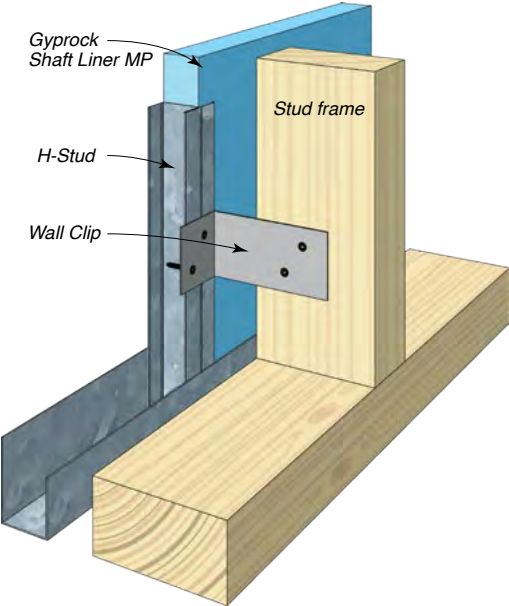


Figure 20: Clip on Stud Option 2

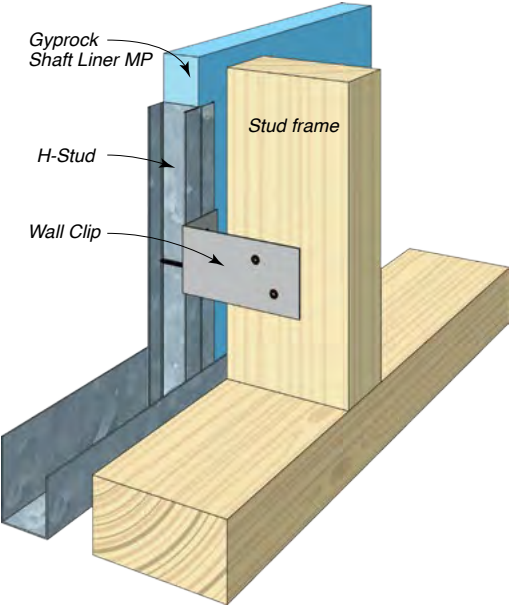


Figure 21: Clip Under Nogging

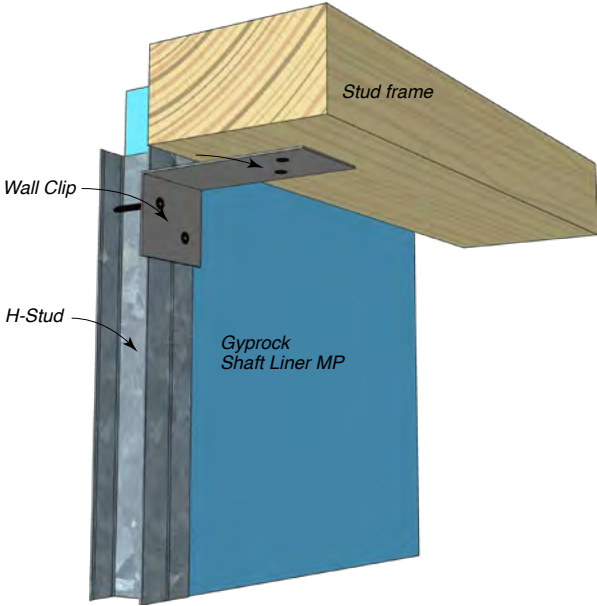


Figure 22: Bath Installation - Elevation

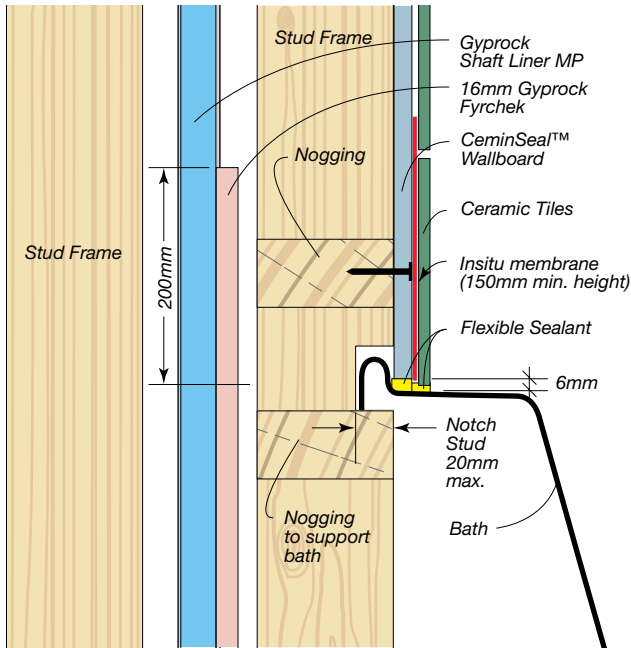


Figure 24: Alternative Tub/Basin Install (Discontinuous linings) - Elevation

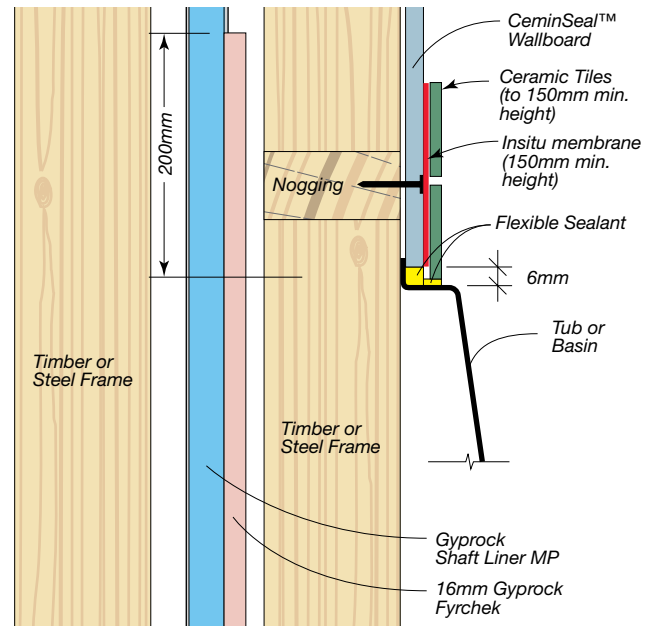


Figure 23: Laundry Tub/Basin Installation (continuous linings) - Elevation

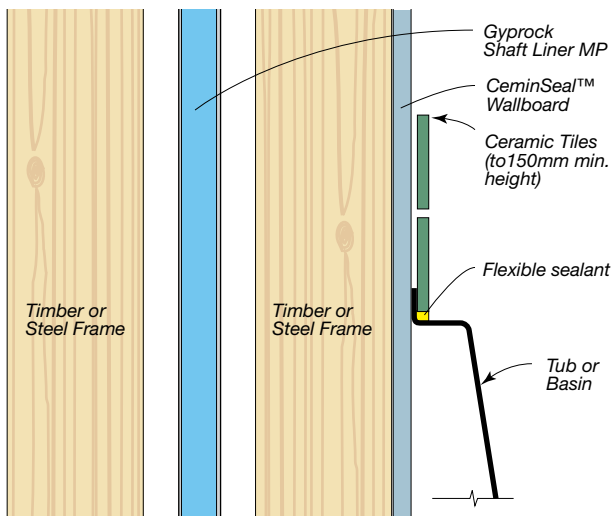


Figure 25: Bath Installation - Elevation

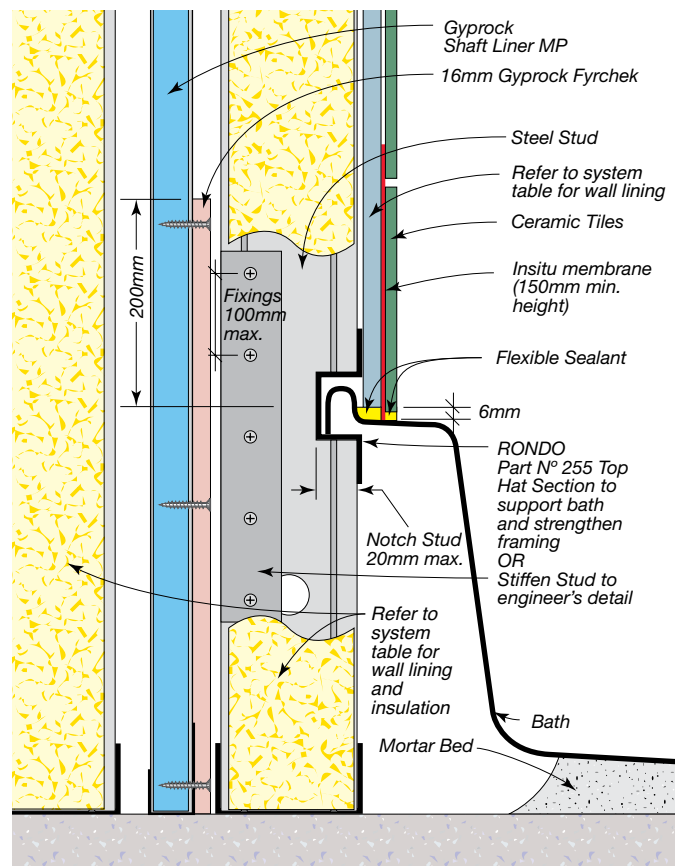


Figure 26: Junction Of Party Wall And Non-Fire Rated Internal Timber Framed Wall – Plan View

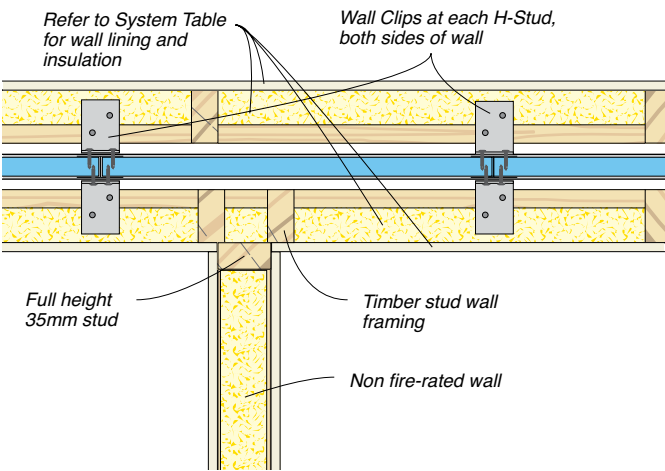


Figure 27: Junction Of Party Wall And Non-Fire Rated Internal Steel Framed Wall (Option 1) – Plan View

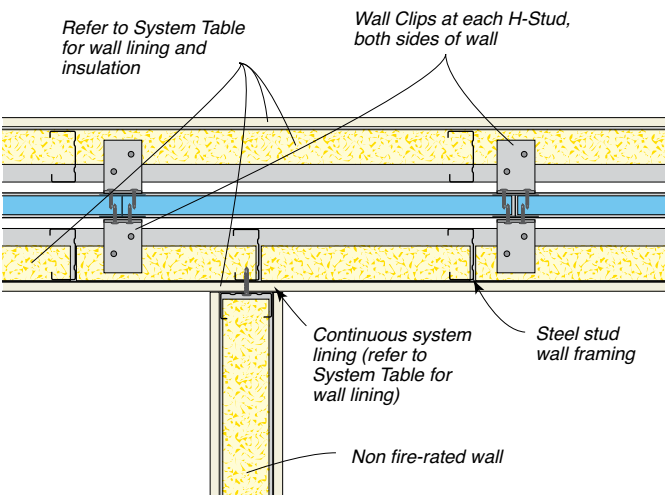


Figure 28: Junction Of Party Wall And Non-Fire Rated Internal Steel Frame Wall (Option 2) - Plan View

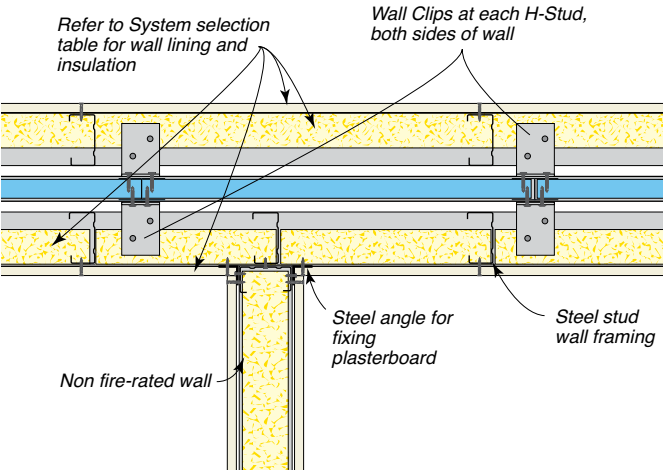


Figure 29: Junction Of Party Wall And Non-Fire Rated Internal Steel Frame Wall (Option 3) - Plan View

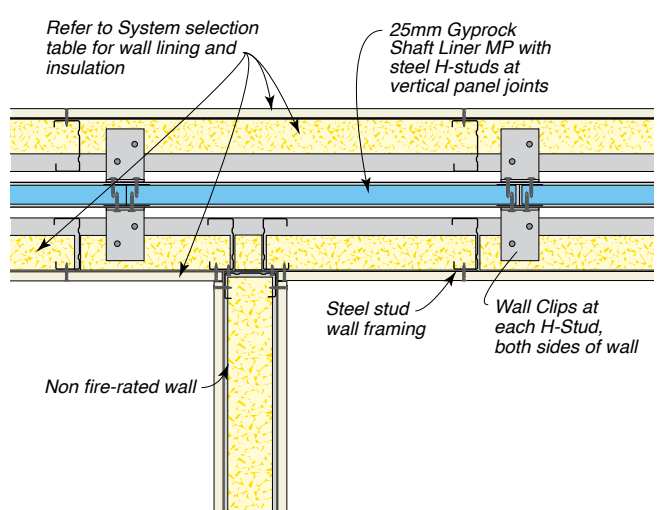


Figure 30: Junction Of Party Wall And Party Wall At Corner (clip on external side) – Plan View

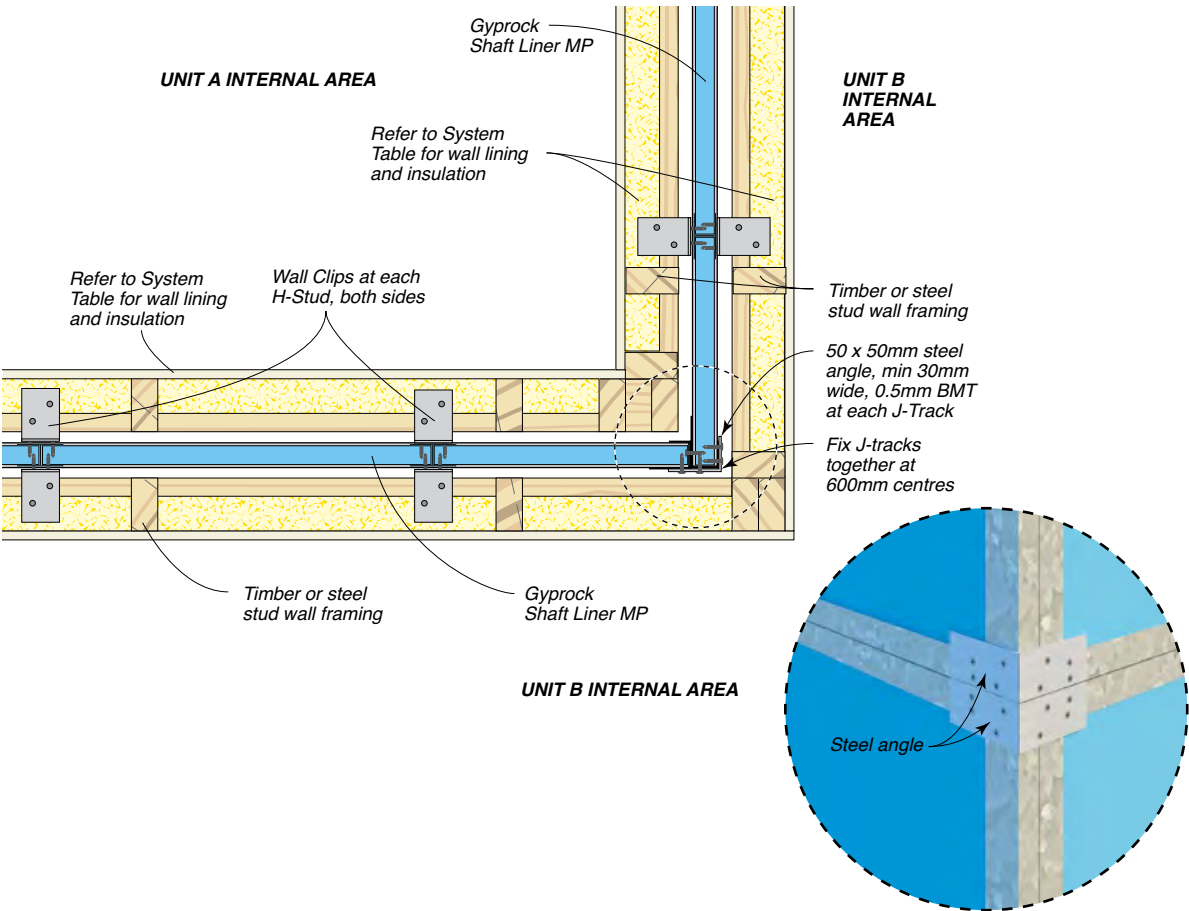


Figure 31: Junction Of Party Wall And Party Wall At Corner (clip on internal side)– Plan View

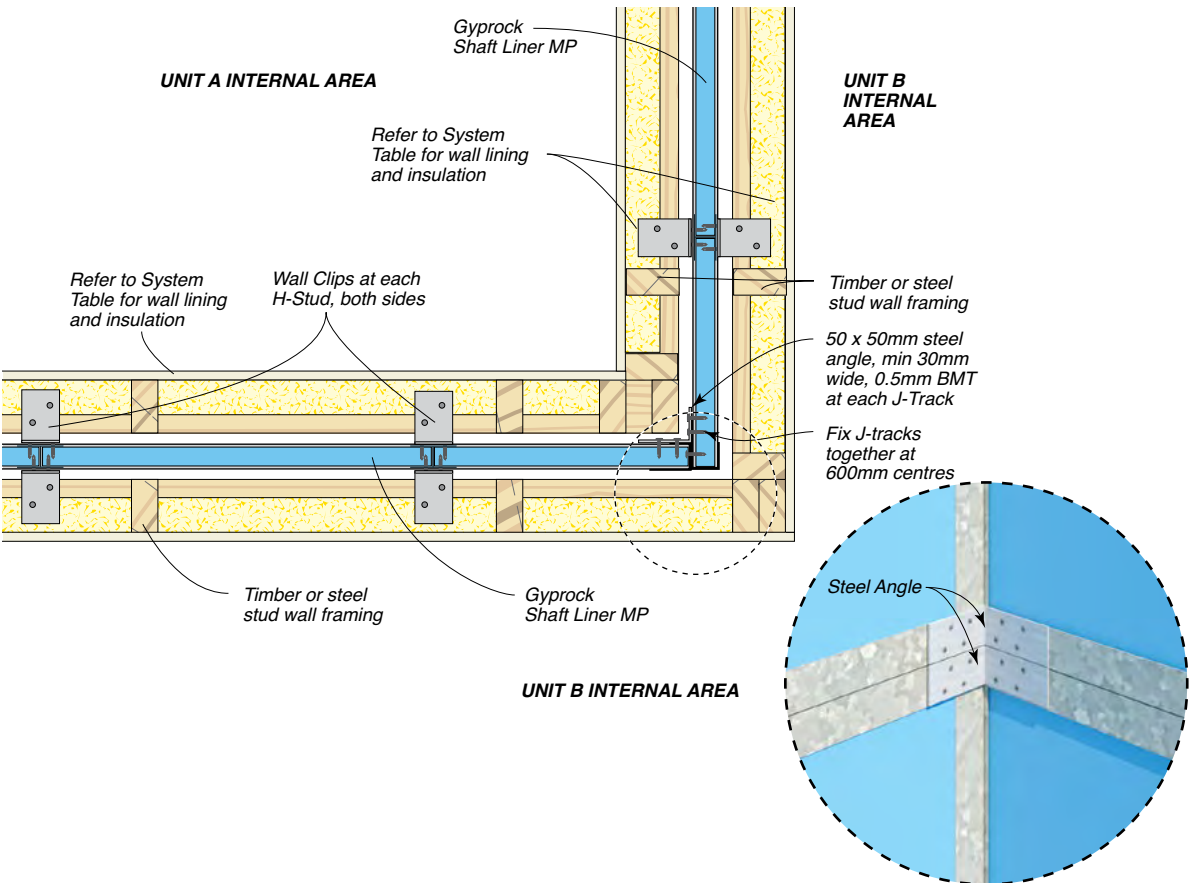


Figure 32: Junction Of Party Wall to Party Wall at T-Intersection (Option 1) – Plan View

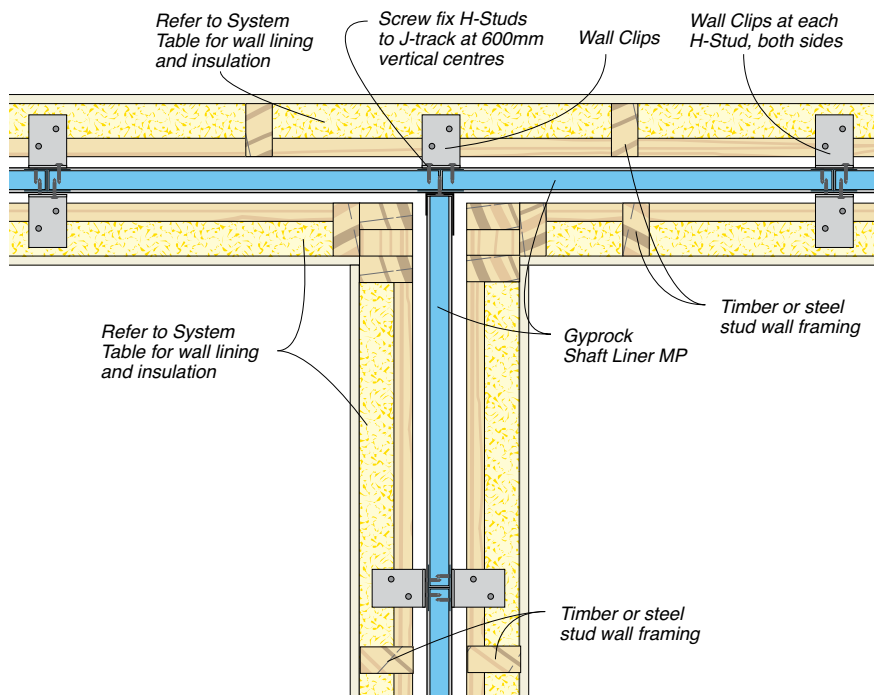


Figure 33: Junction Of Party Wall to Party Wall at T-Intersection (Option 2) – Plan View

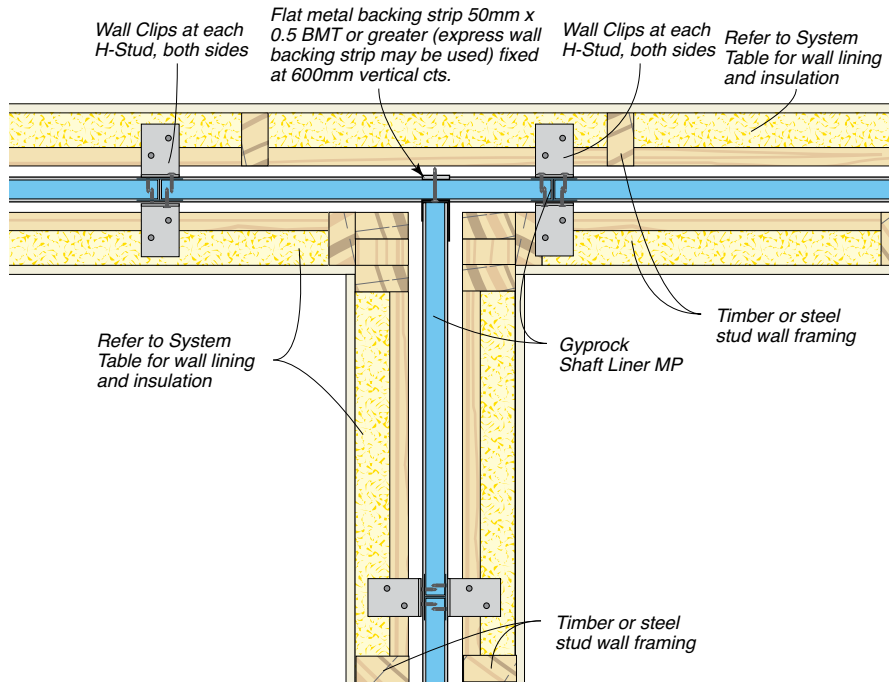


Figure 34: Fixing Method 1

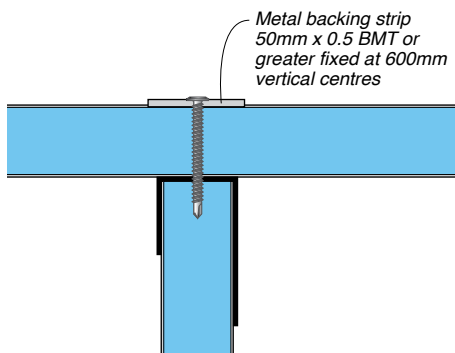


Figure 35: Fixing Method 2

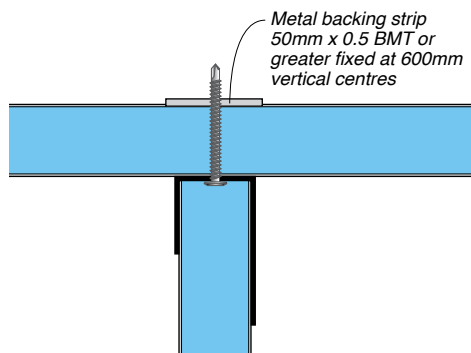


Figure 36: Party Wall 45° Corner – Plan View

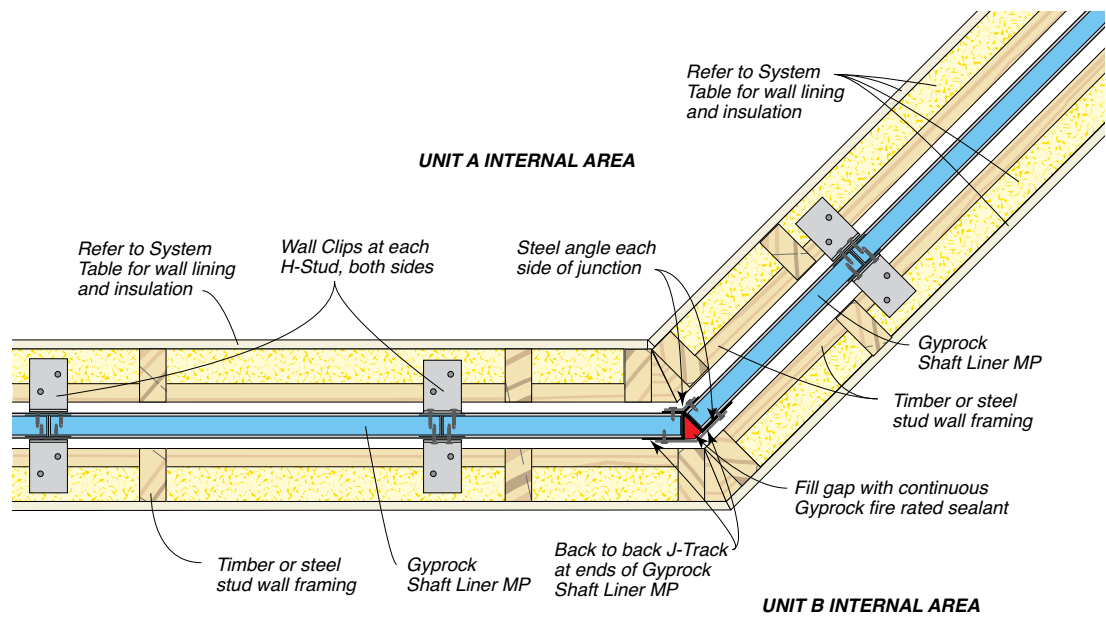


Figure 37: Party Wall 45° Corner Overview

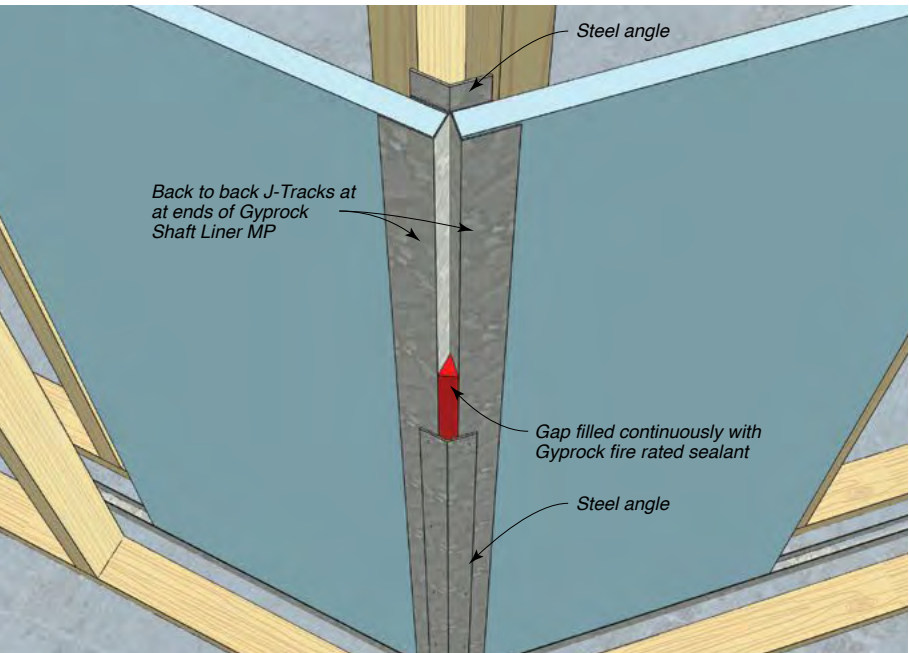


Figure 38: Junction Party Wall To Party Wall At 4-Way Intersection – Plan View

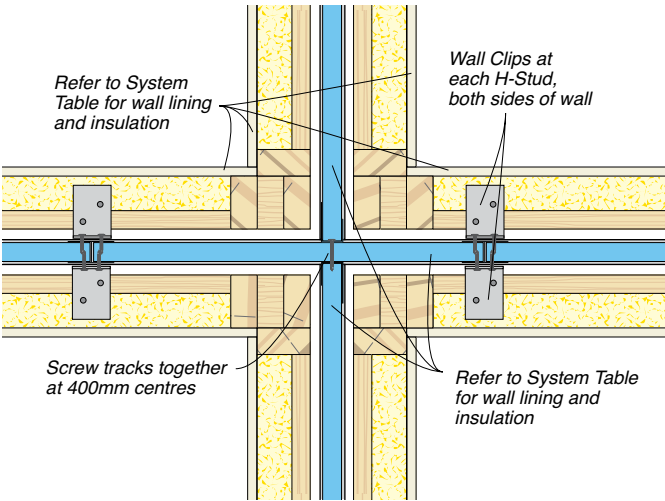


Figure 39: Installation Of Fyrchek Plasterboard Lamination (Option 1)

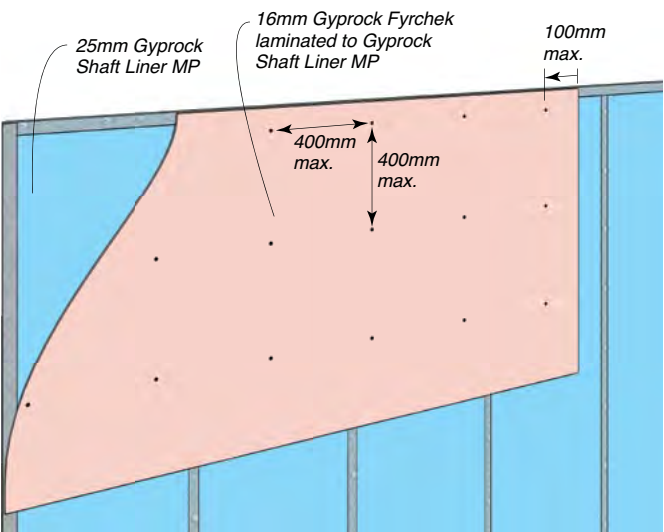


Figure 40: Installation Of Fyrchek Plasterboard Lamination (Option 2)

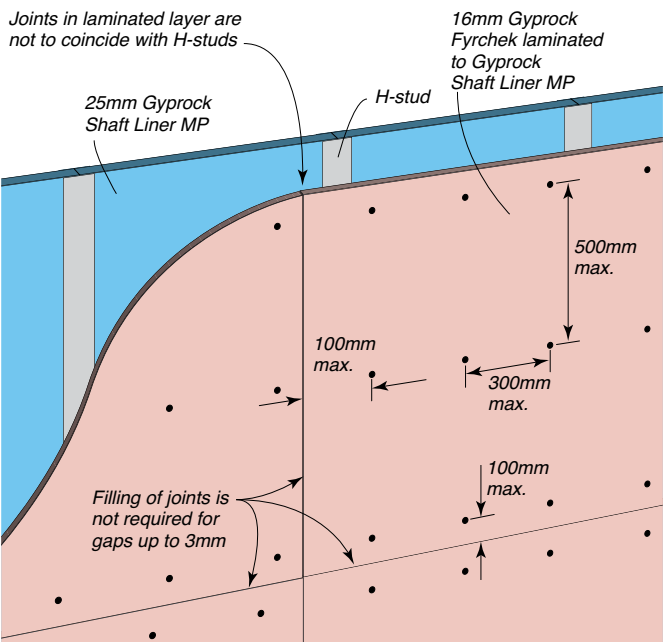


Figure 41: Detail At Upper Storey Framed Floor

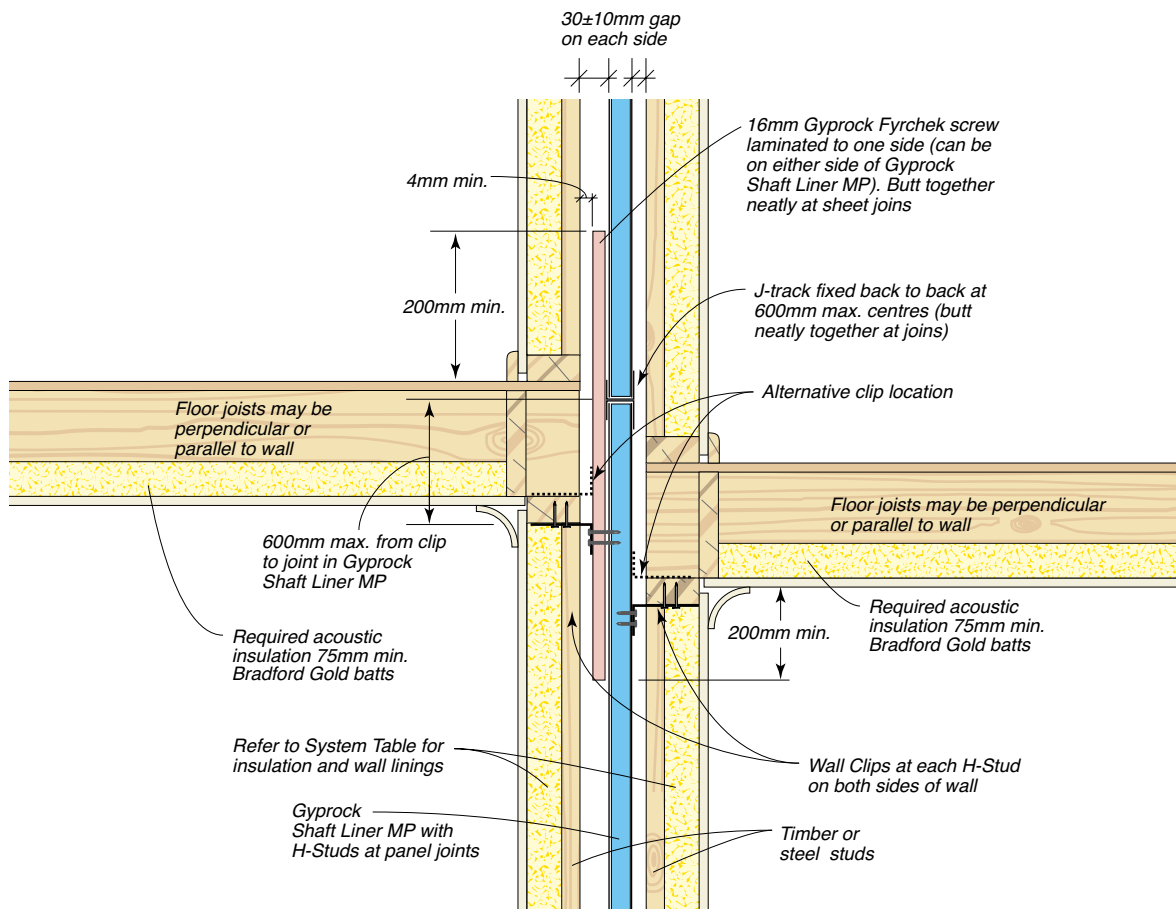


Figure 42: Detail For Steel Column And Beam Support

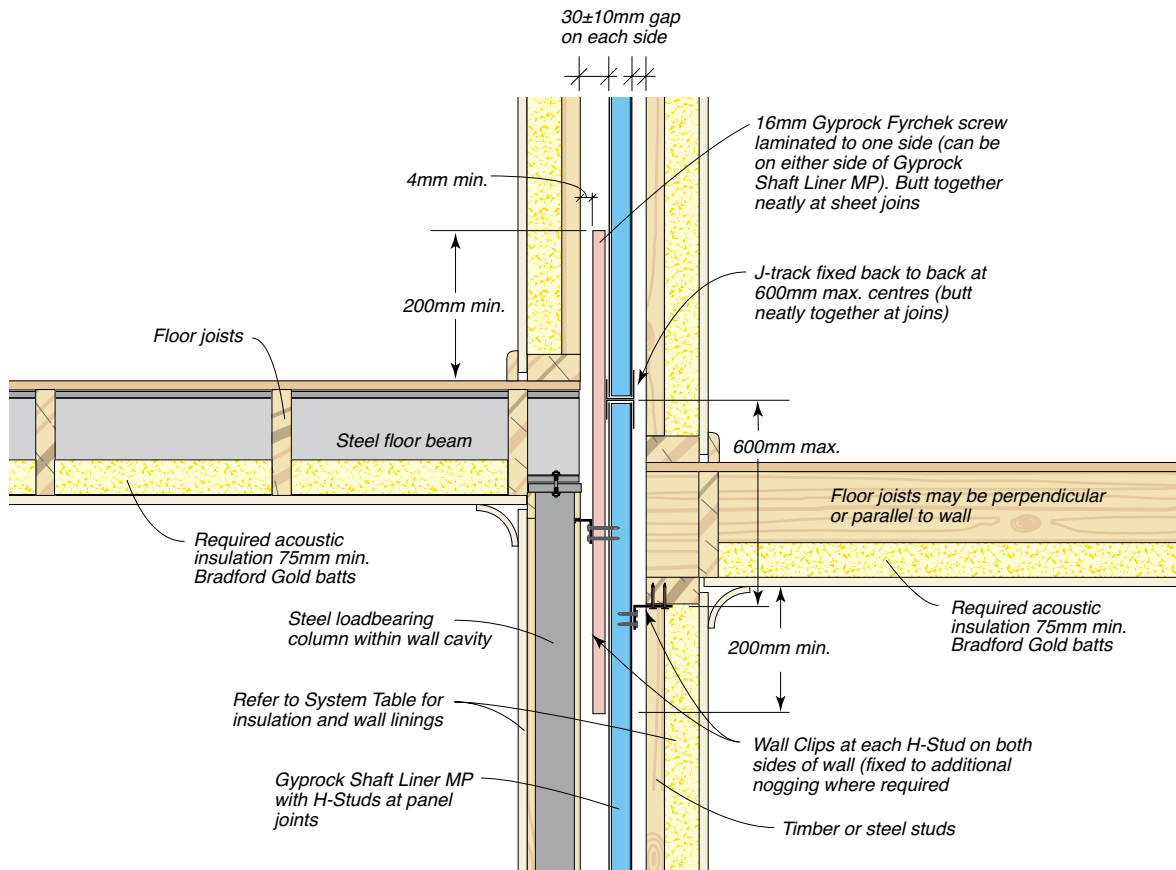


Figure 43: Detail At Roof/Ceiling At Transition From Single To Two Storey

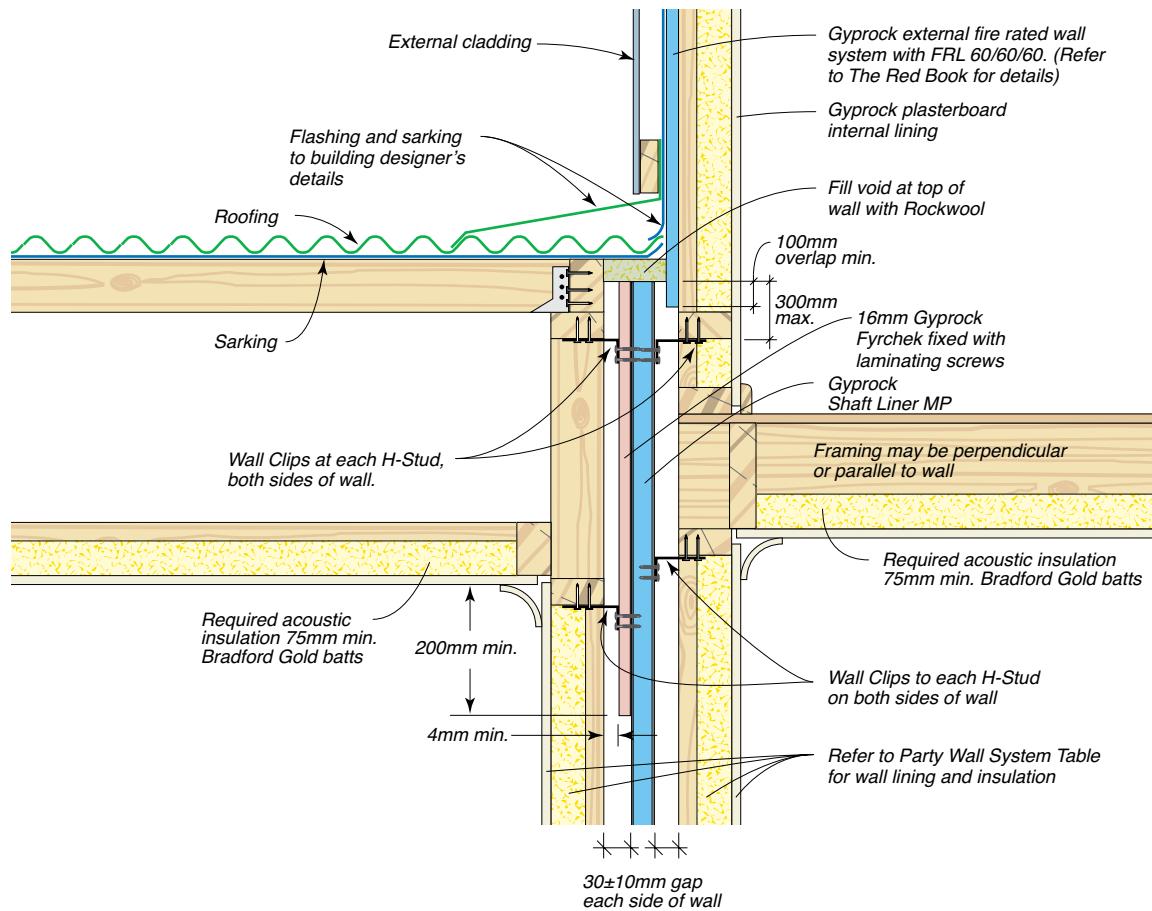


Figure 44: Detail At Roof/Ceiling At Transition From Single To Two Storey

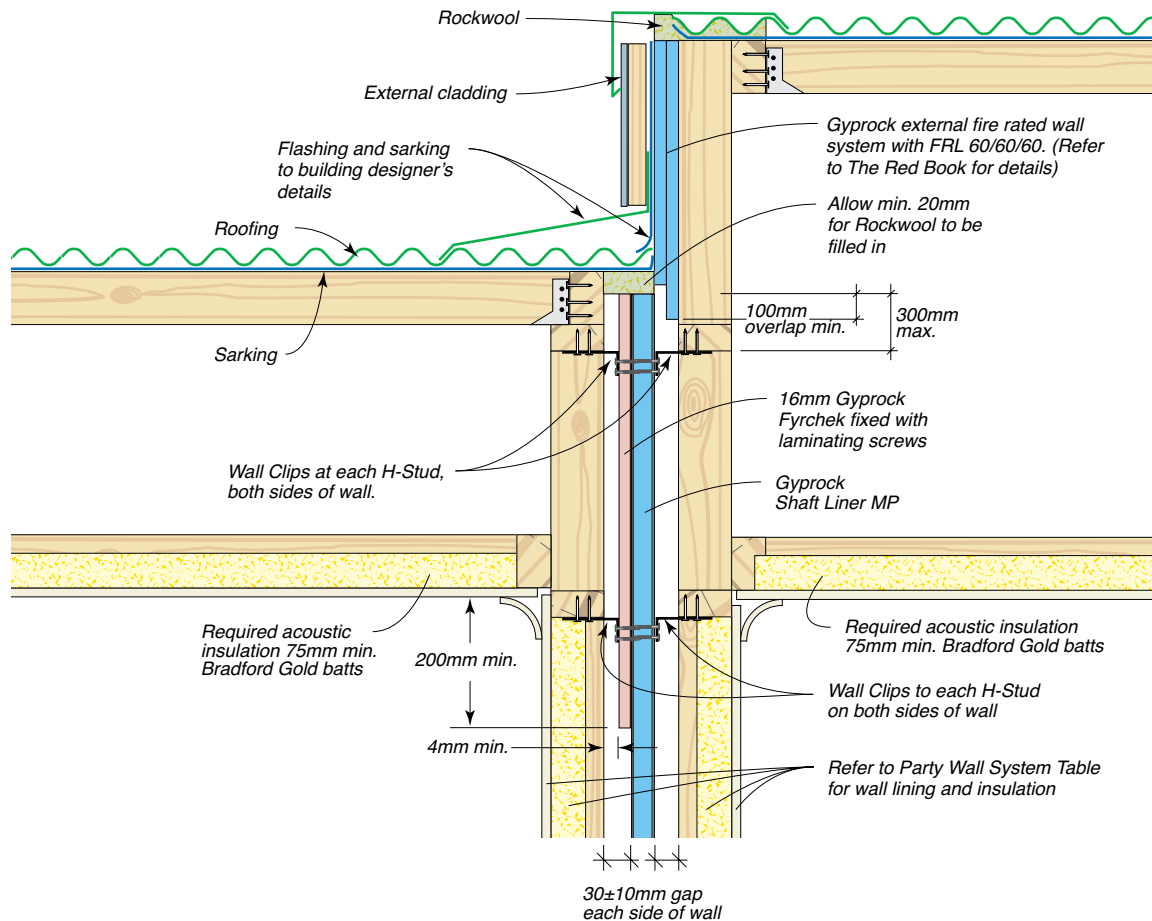


Figure 45: Detail At Ceiling And Roof

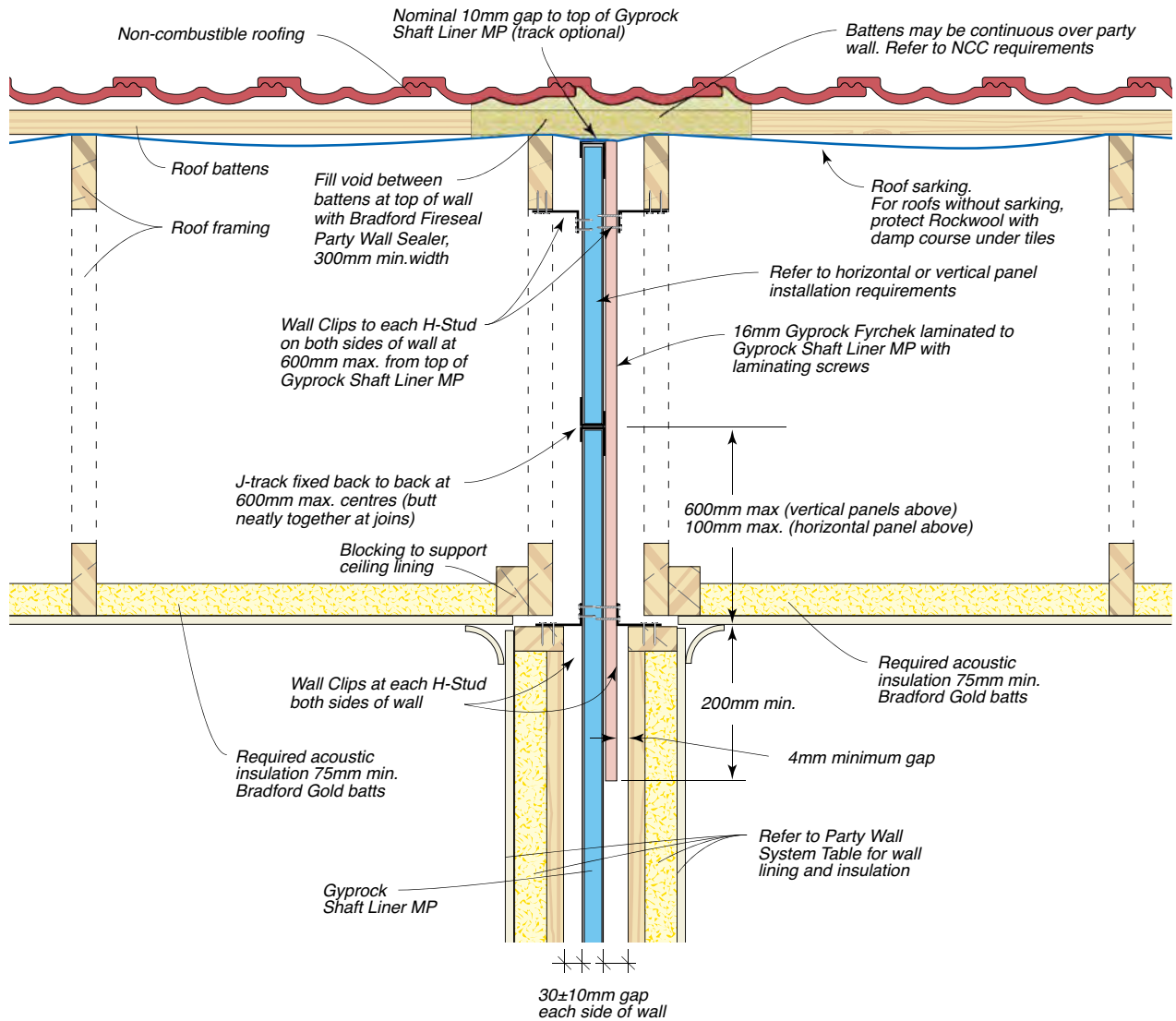


Figure 46: Detail At Roof/Ceiling And Valley Gutter

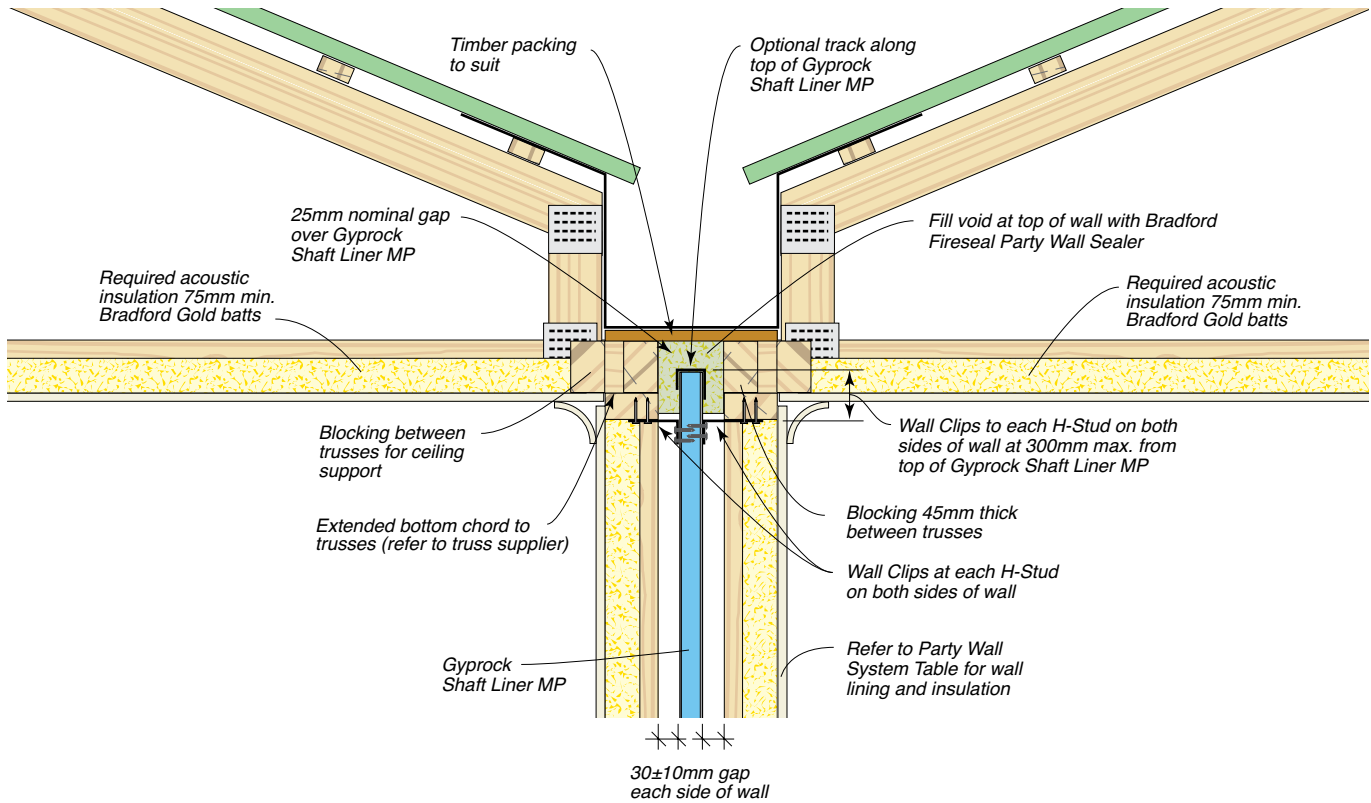


Figure 47: Detail At Roof/Ceiling And Parapet

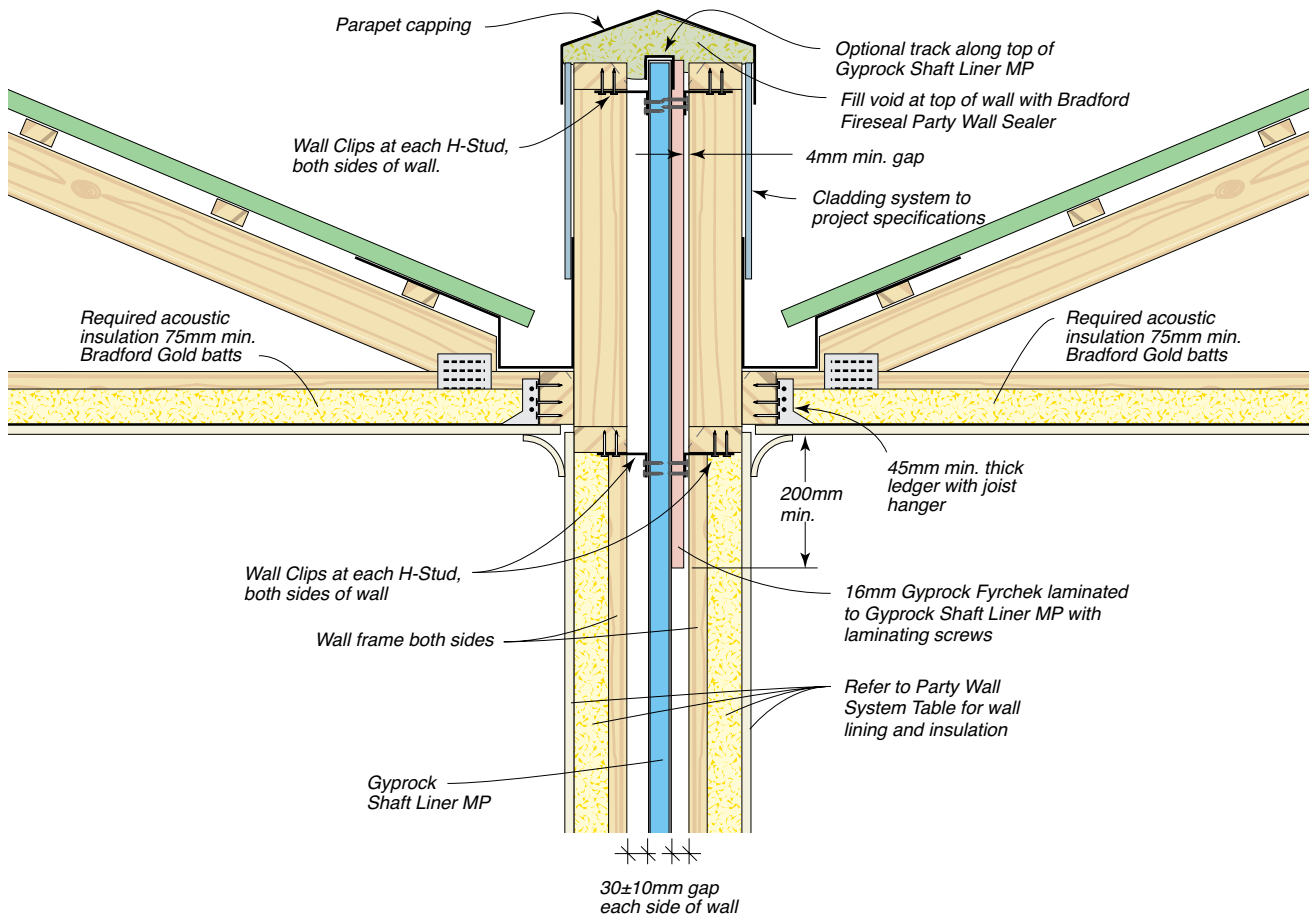


Figure 48: Detail At Roof/Ceiling With Continuous Roofing Over Party Wall

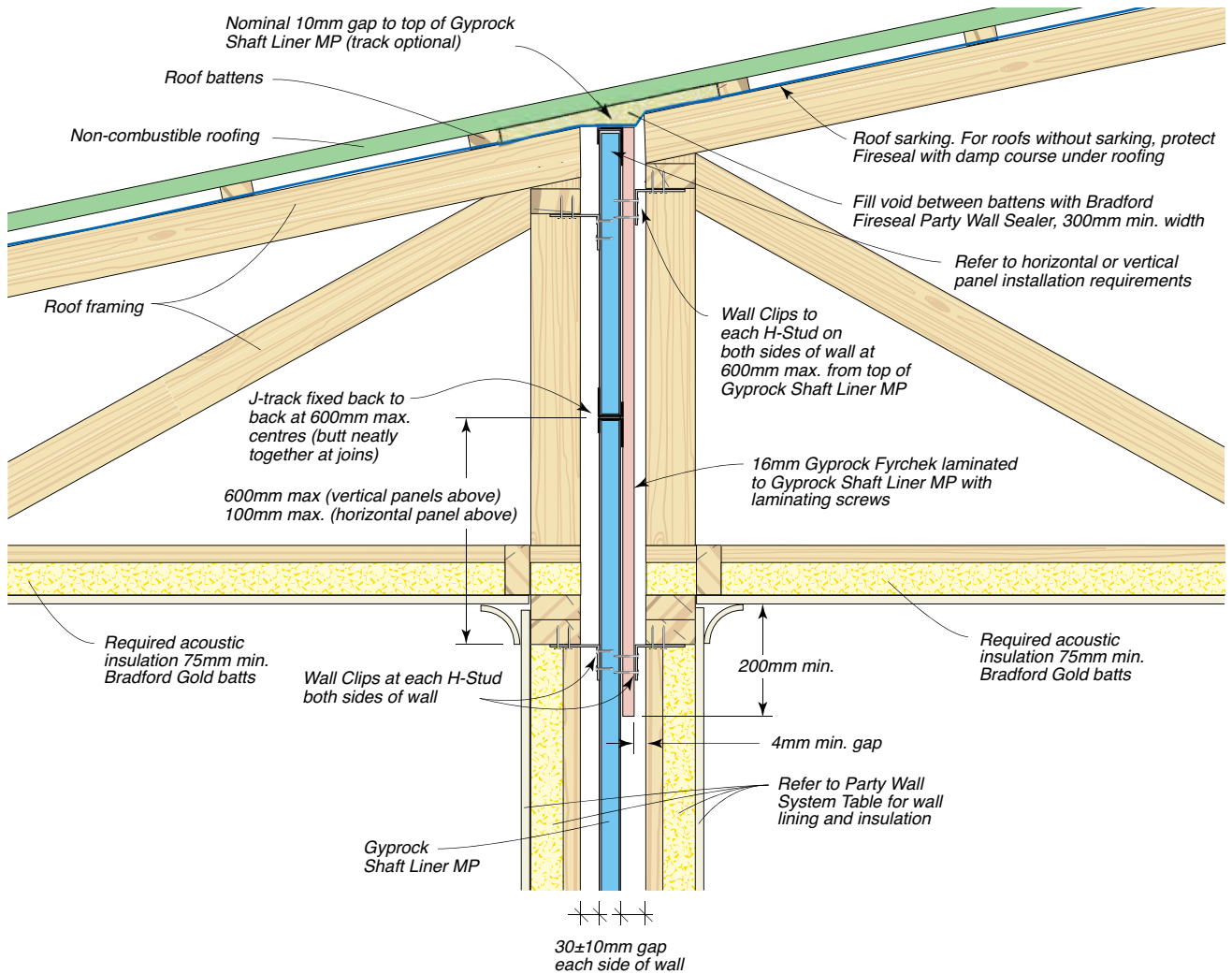


Figure 49: Detail At Stepped Roof/Ceiling

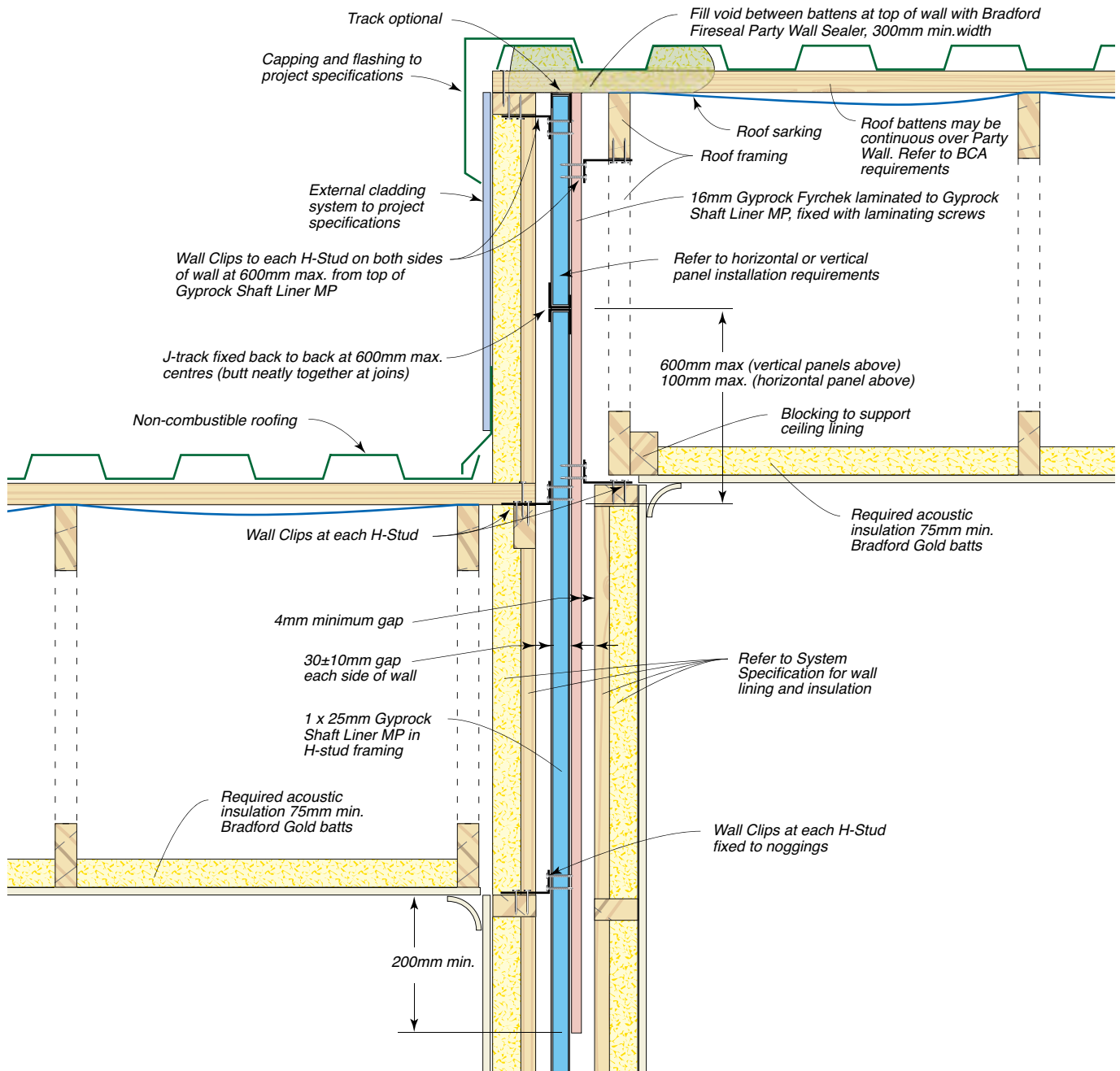


Figure 50: Roof With Party Wall To Underside Of Lower Roof Line

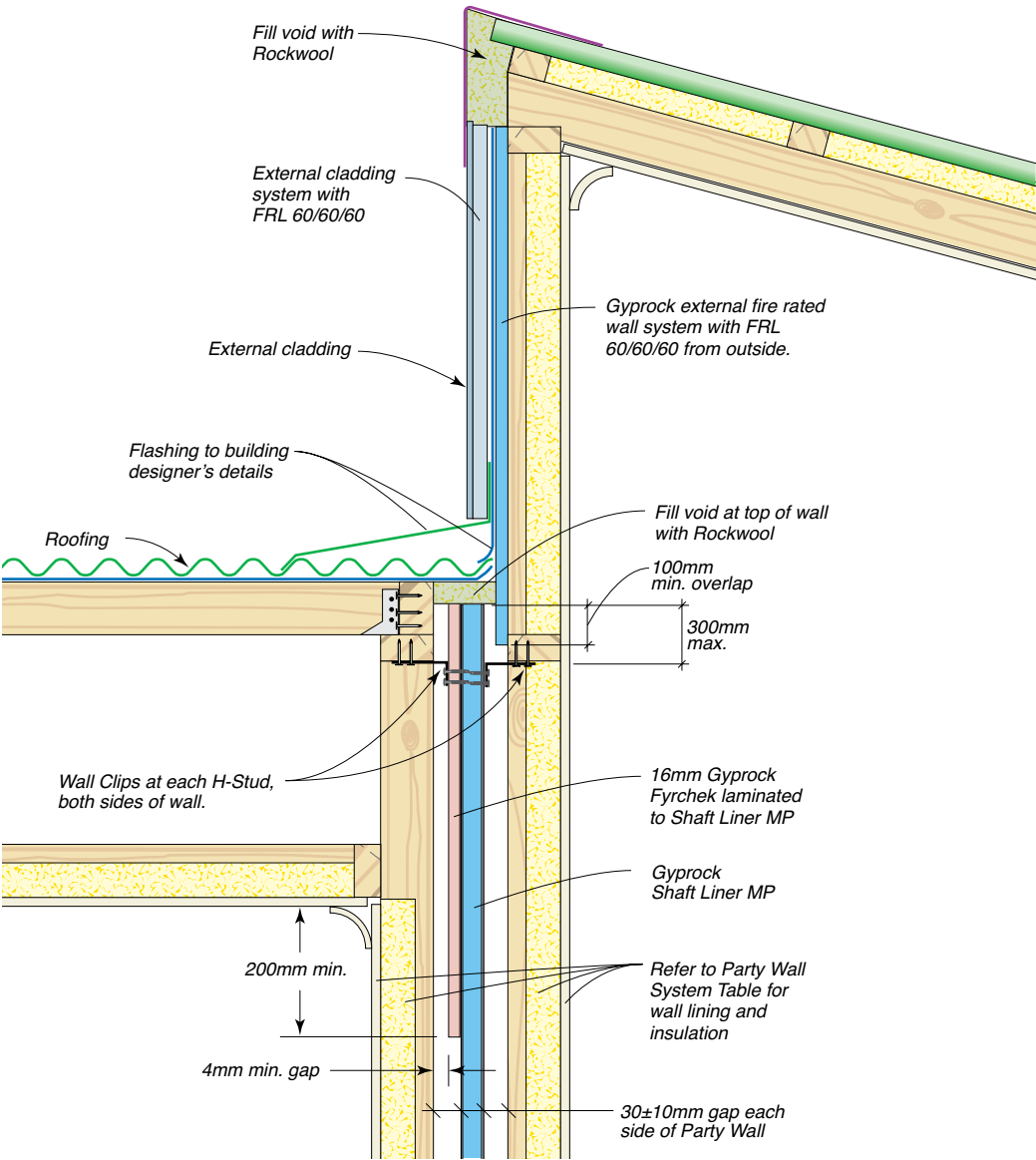


Figure 51: Roof Void With Horizontal & Vertical Panels – Party Wall Parallel to Truss/Rafter (Front Elevation)

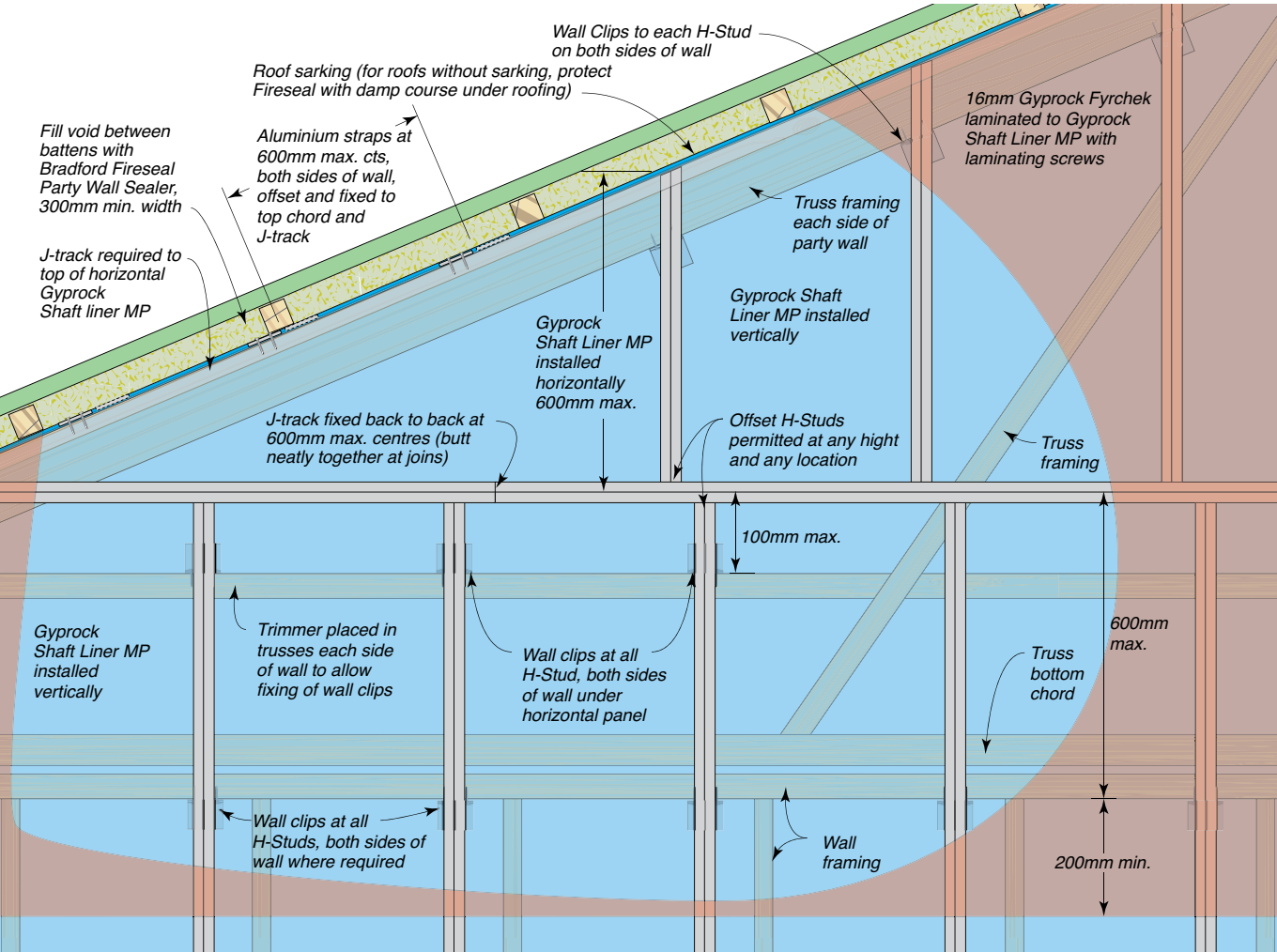


Figure 52: Offset Party Wall H-Studs (Front Elevation)

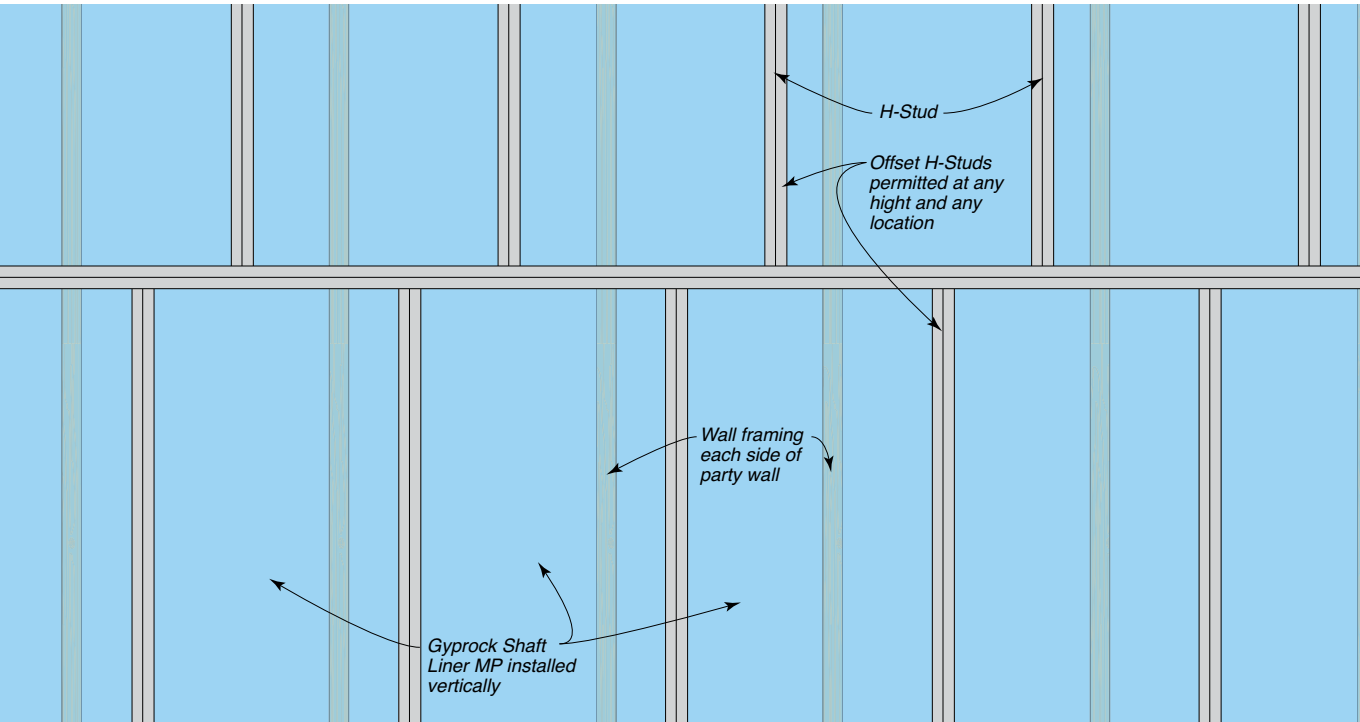


Figure 53: Roof Void With Horizontal & Vertical Panels – Party Wall Parallel to Truss/Rafter (Side Elevation)

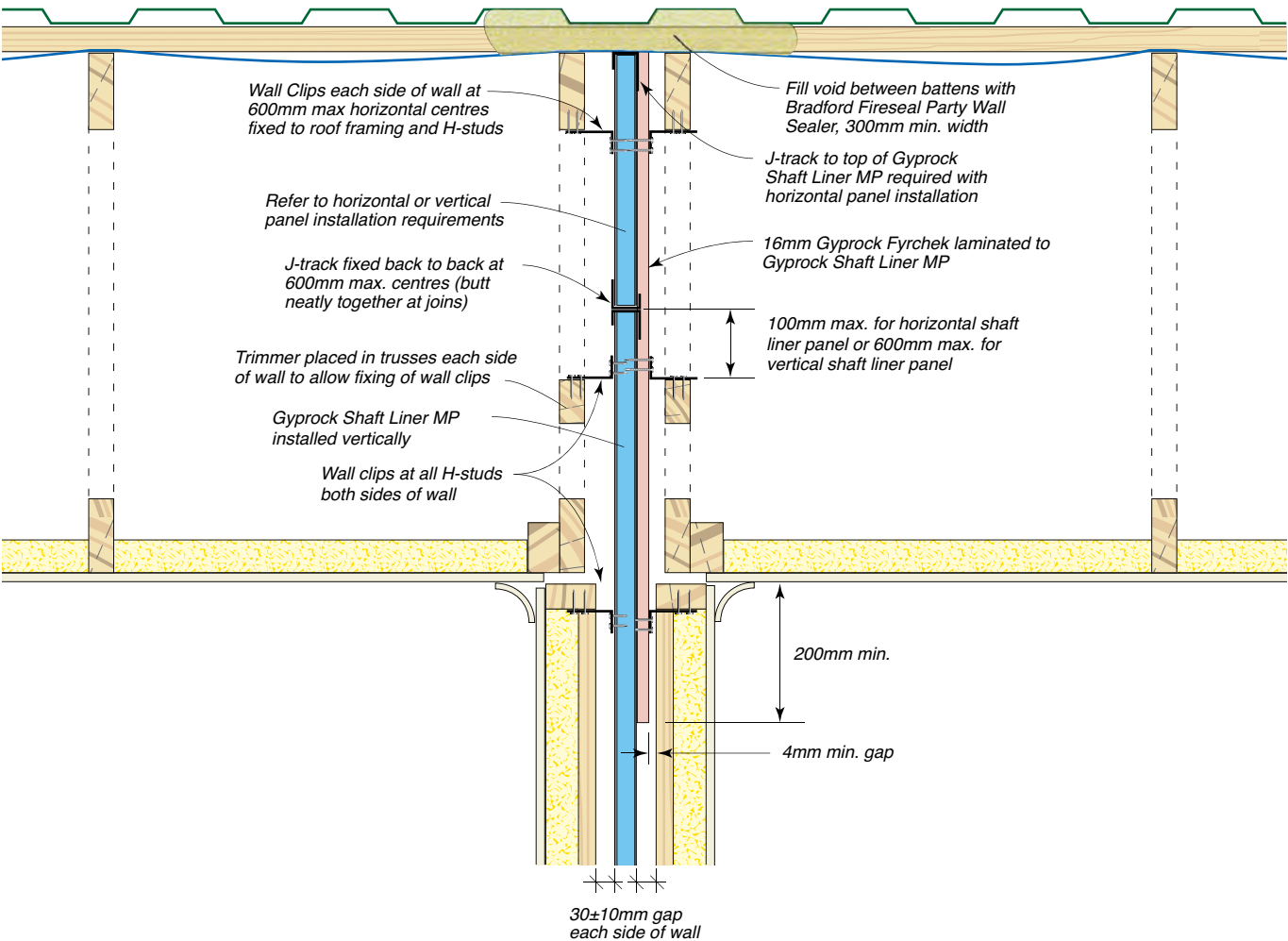


Figure 54: Roof Void With Horizontal Over Vertical Panels – Party Wall Perpendicular to Truss/Rafter (Front Elevation)

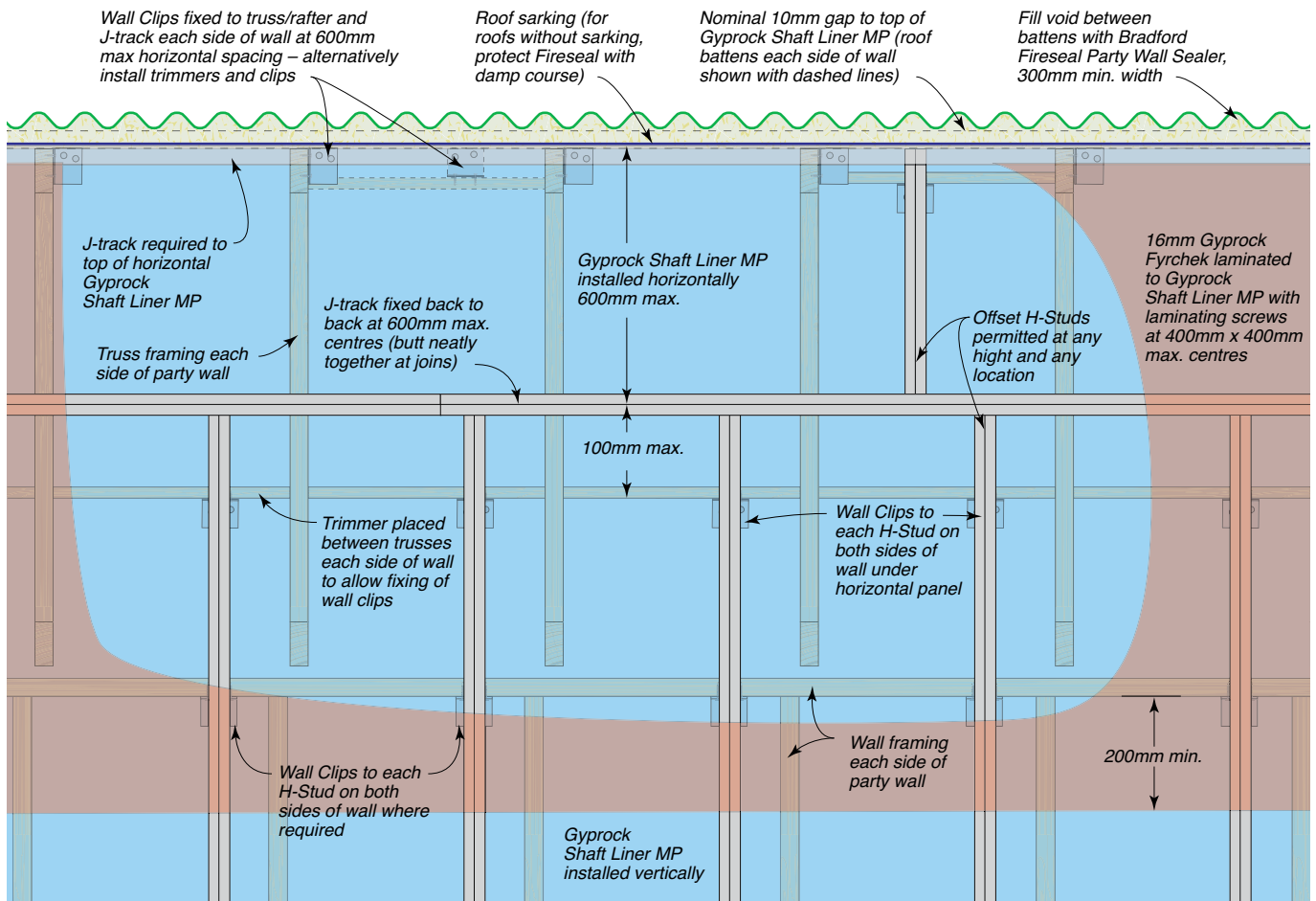


Figure 55: Floor Step Down with Vertical Shaft Liner MP – (Front Elevation)

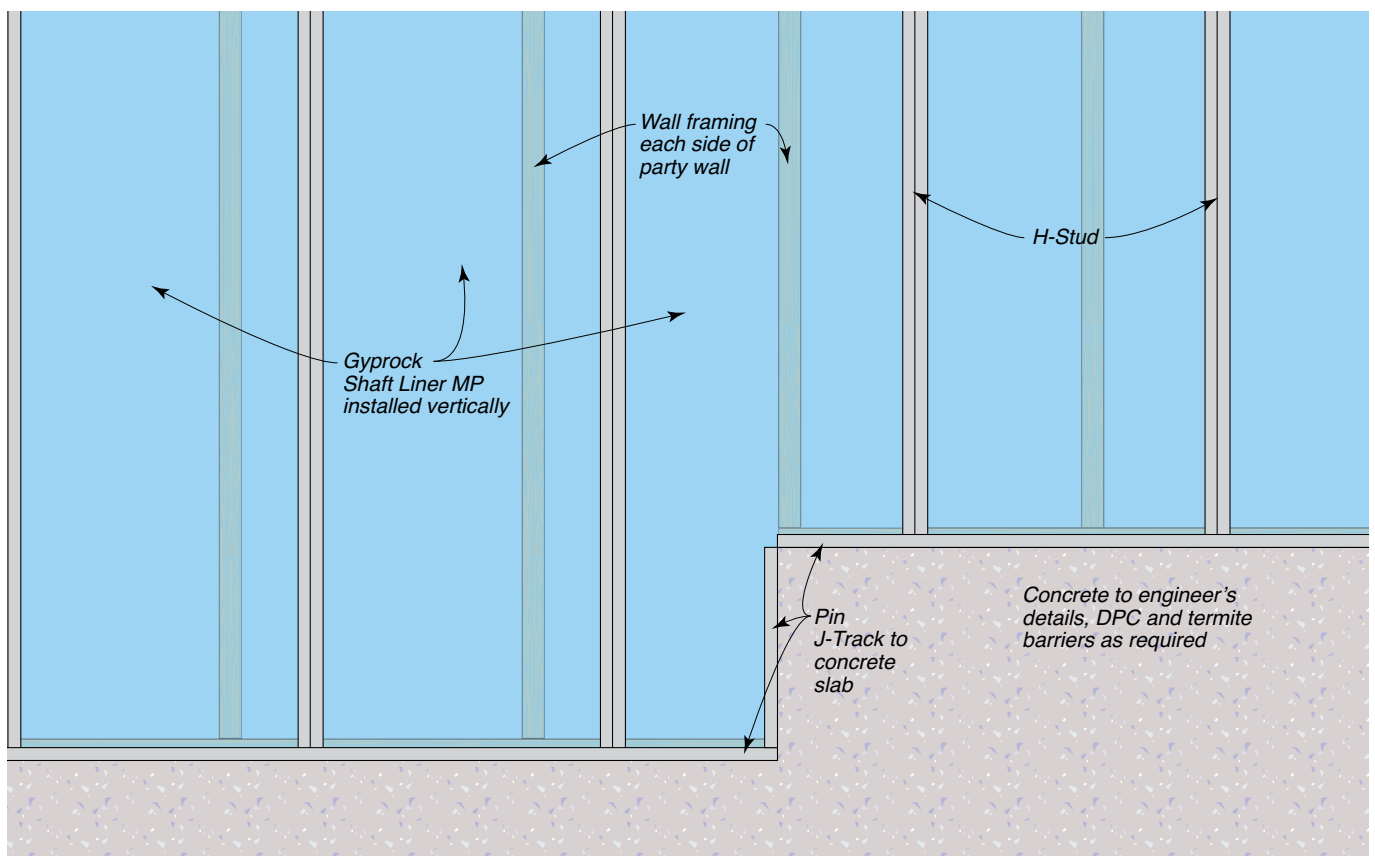


Figure 56: Roof Void With Horizontal Over Vertical Panels – Party Wall Perpendicular to Truss/Rafter (Side Elevation)

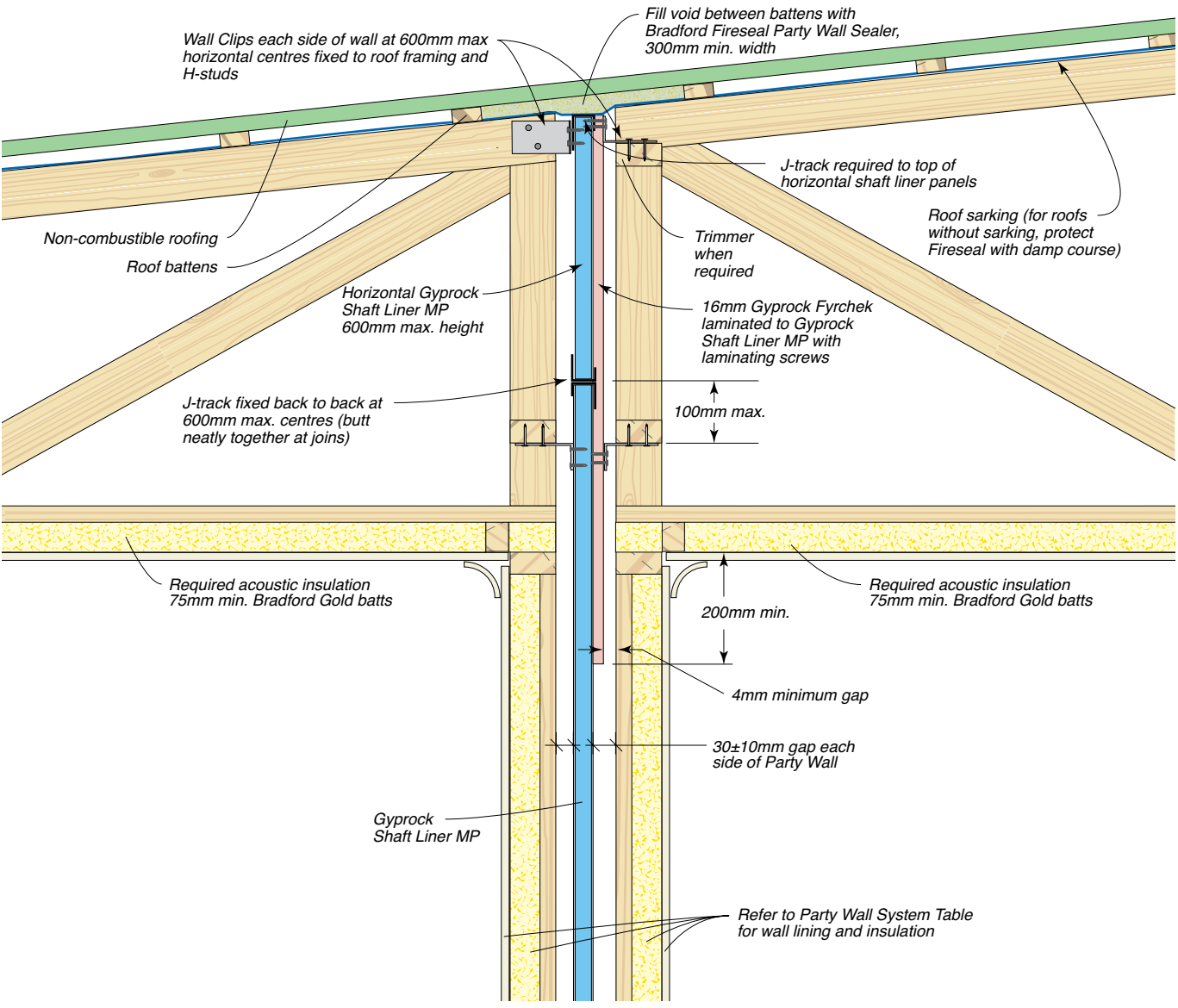


Figure 57: Eaves Detail Fascia – Front Elevation – Appraisal: Refer to BCA

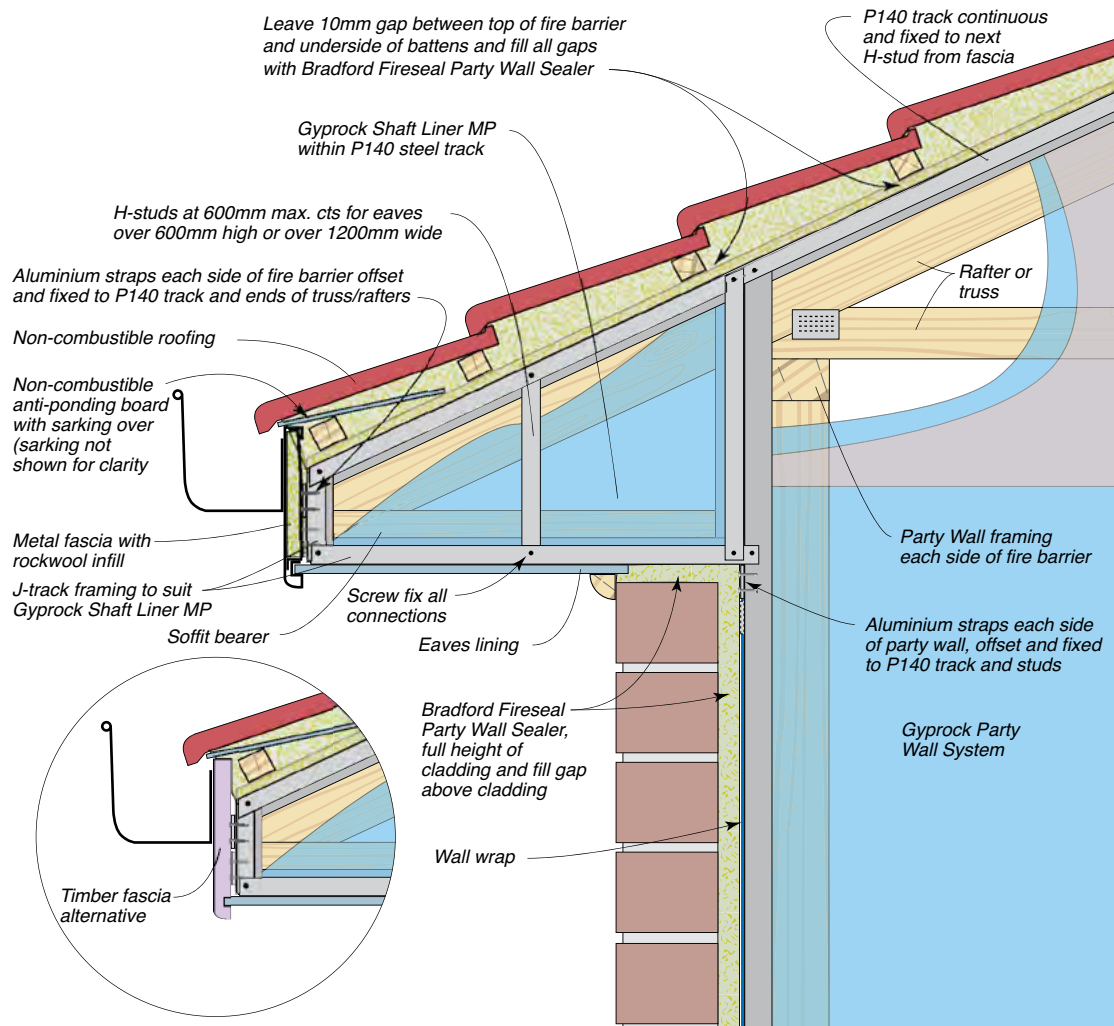


Figure 58: Eaves Detail – Outside End Elevation – Appraisal: Refer to NCC

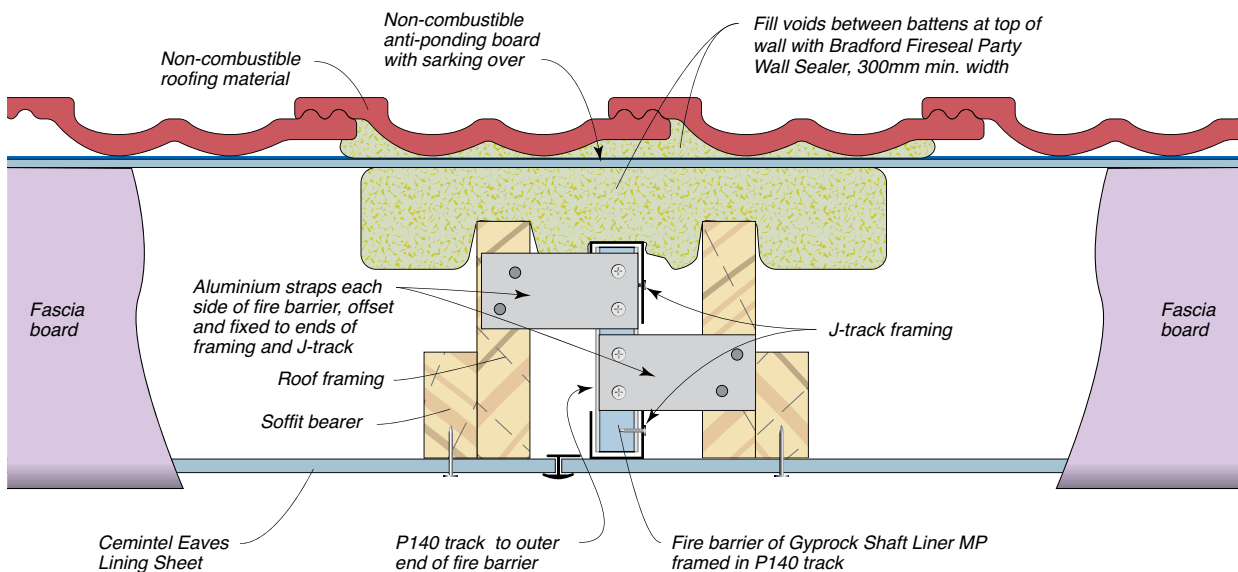


Figure 59: Junction Of Party Wall And External Wall With Lightweight Cladding Direct Fixed to Studs – Plan View

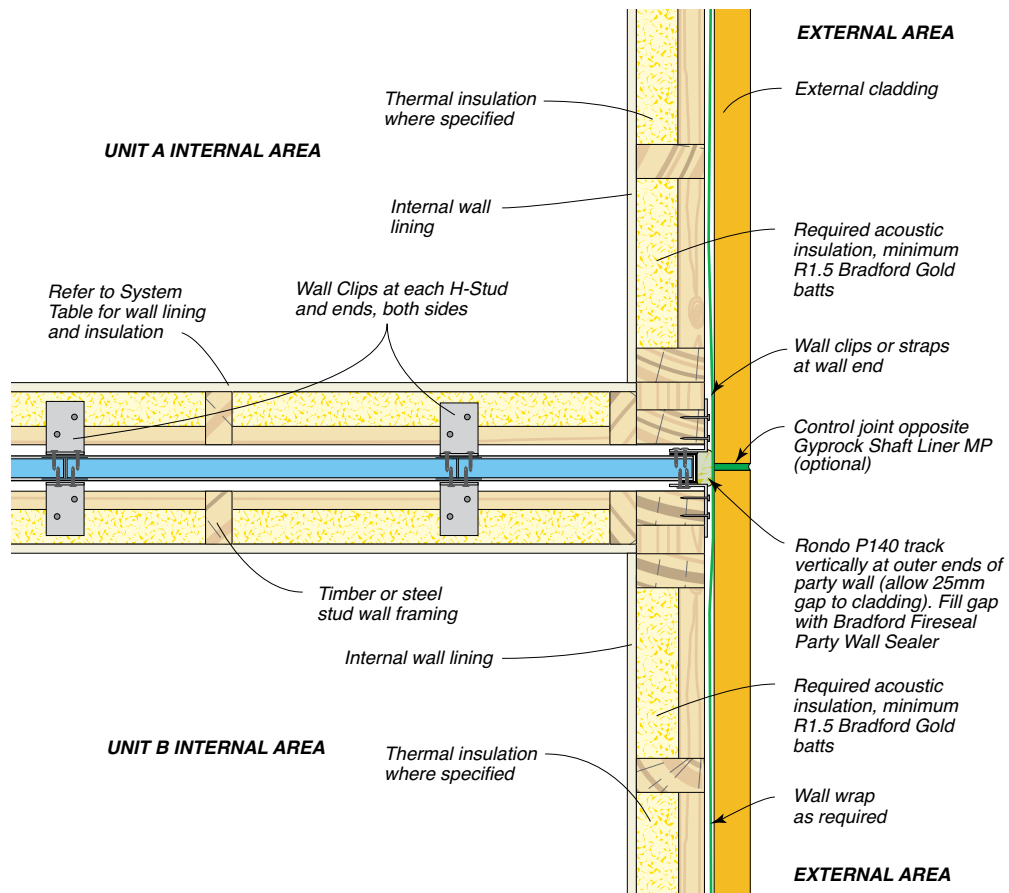


Figure 60: Junction Of Party Wall And External Wall With Lightweight Cladding Direct Fixed to Studs – Plan View

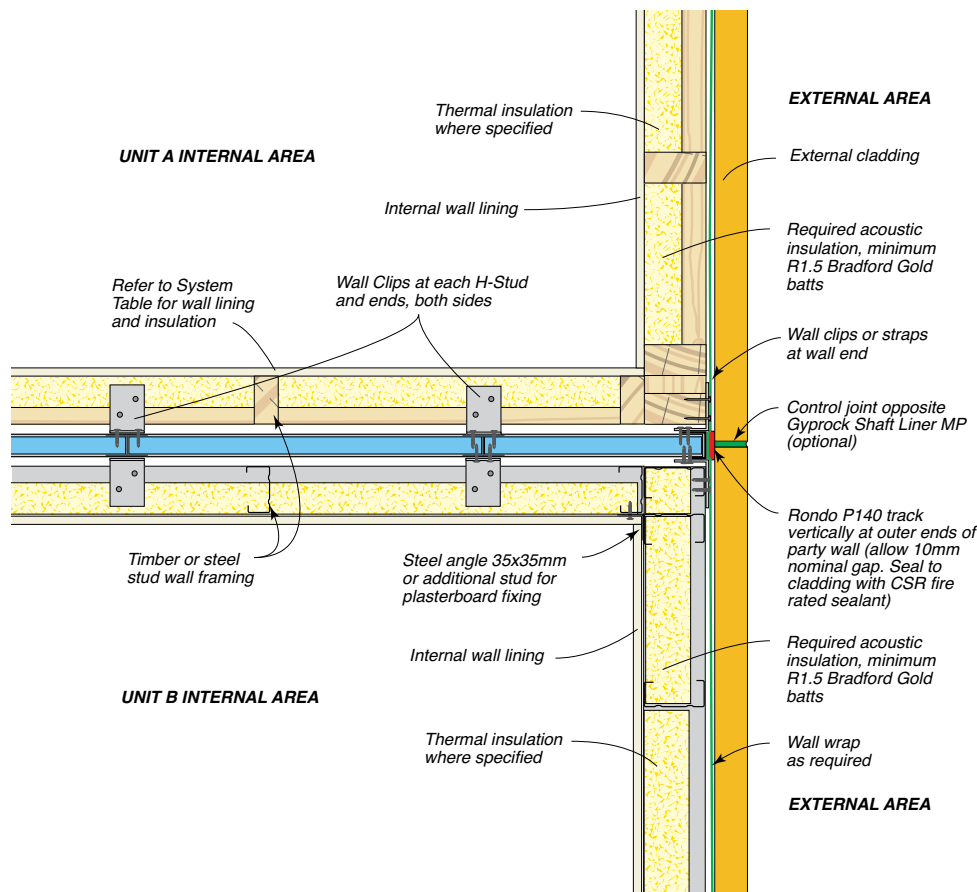


Figure 61: Junction Of Party Wall And External Wall With Cemintel Territory Series Cladding – Plan View

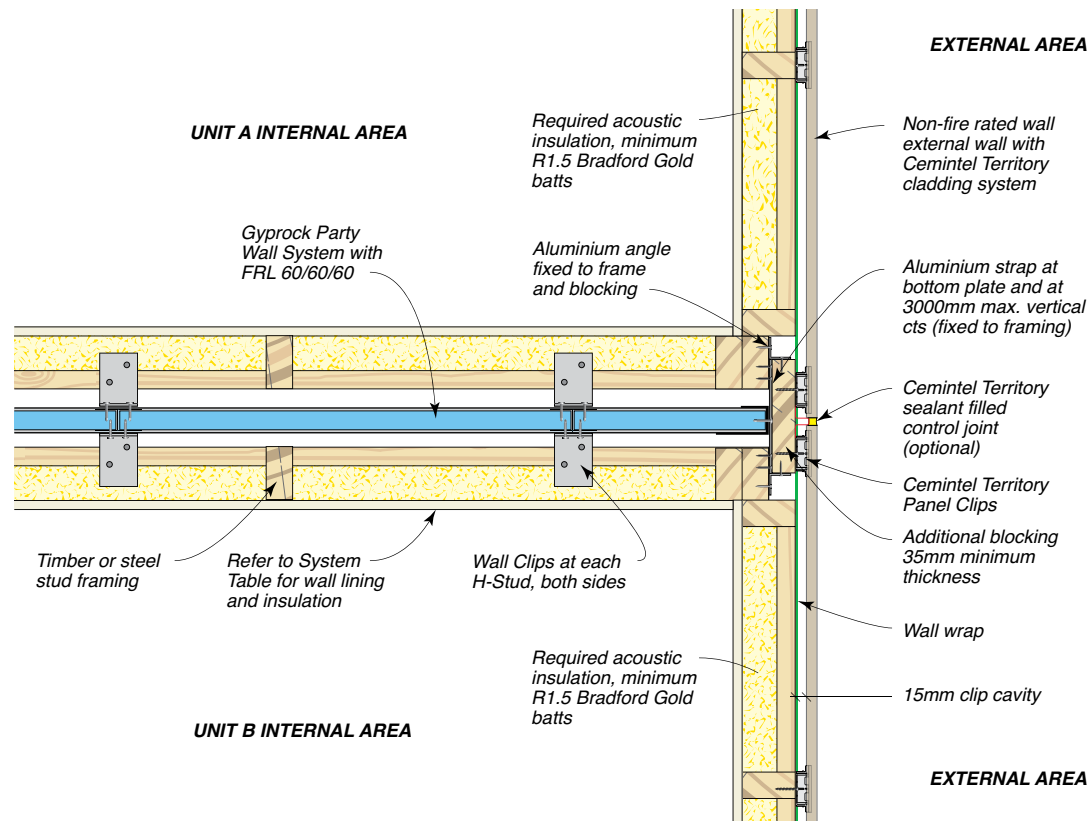


Figure 62: Junction Of Party Wall And External Wall With Hebel AAC Or Steel Sheet Cladding – Plan View

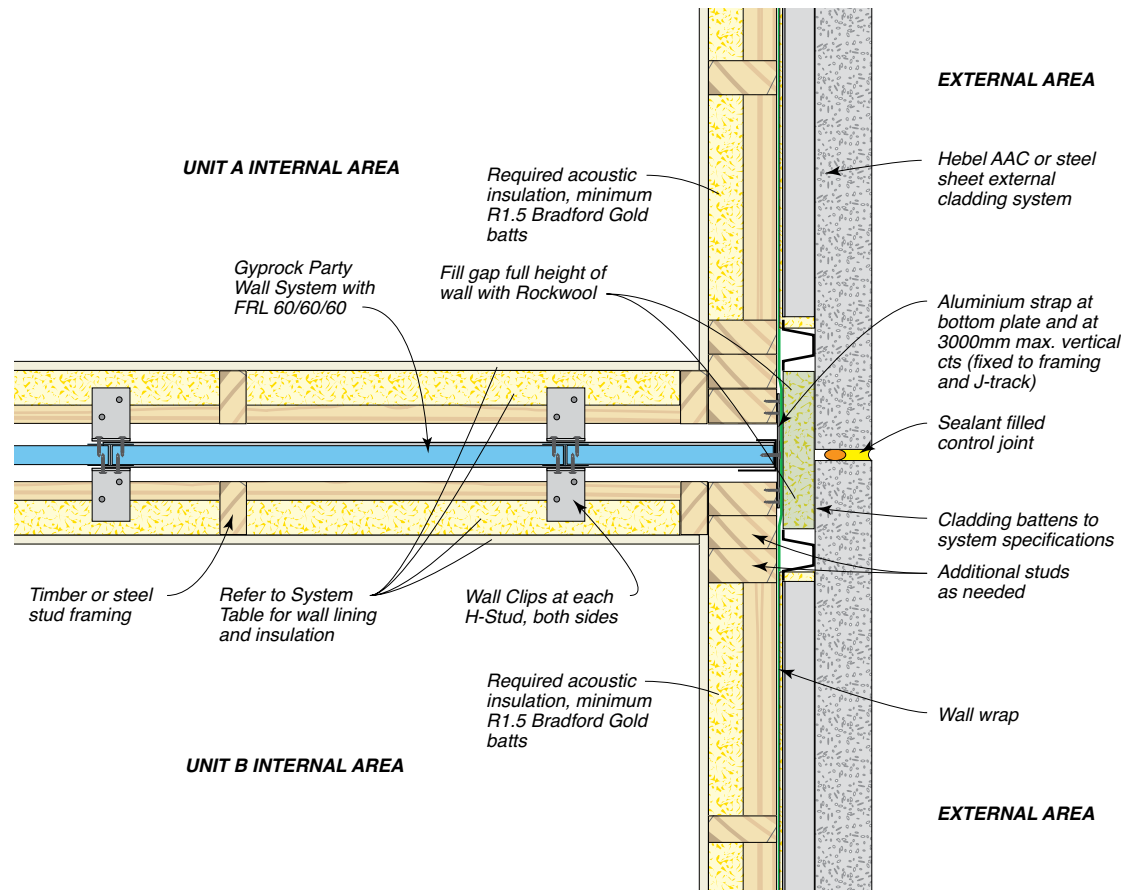


Figure 63: Junction Of Party Wall And External Wall With Fibre Cement Cladding on Battens – Plan View

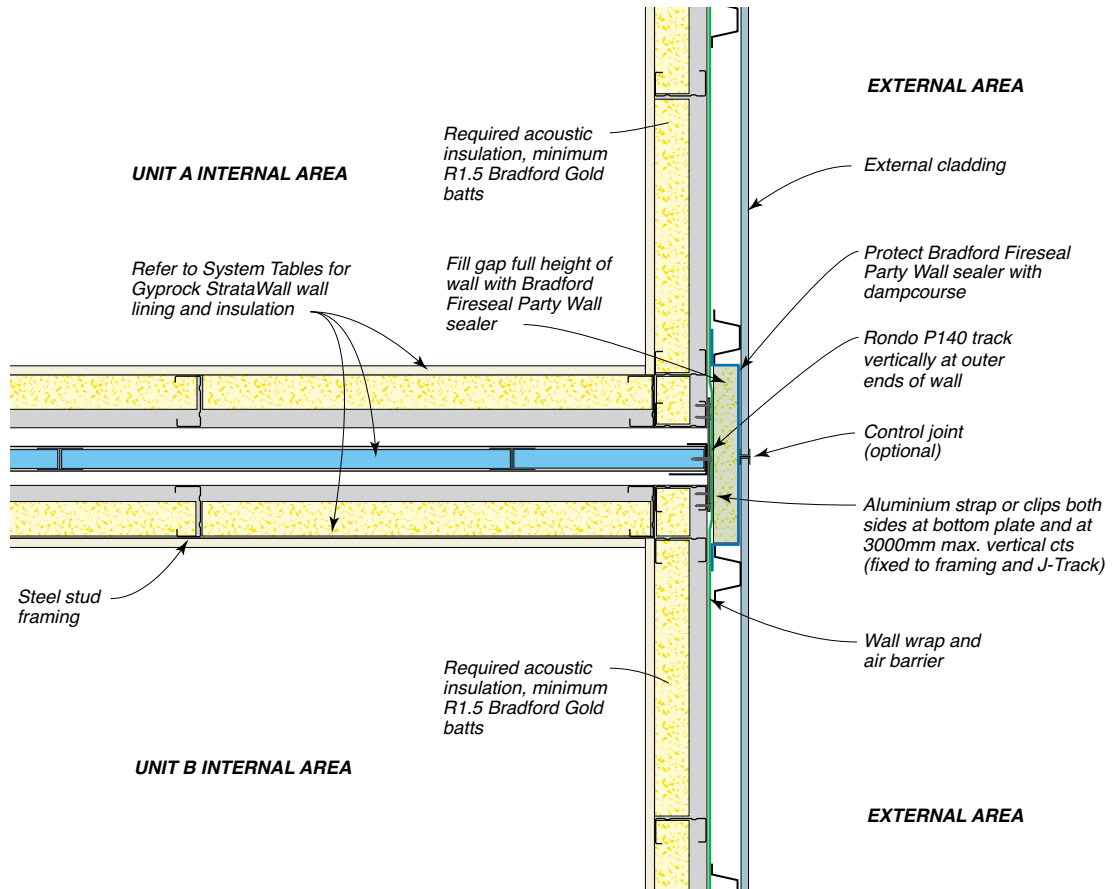


Figure 64: Junction Of Party Wall And External Brick Veneer Wall – Plan View

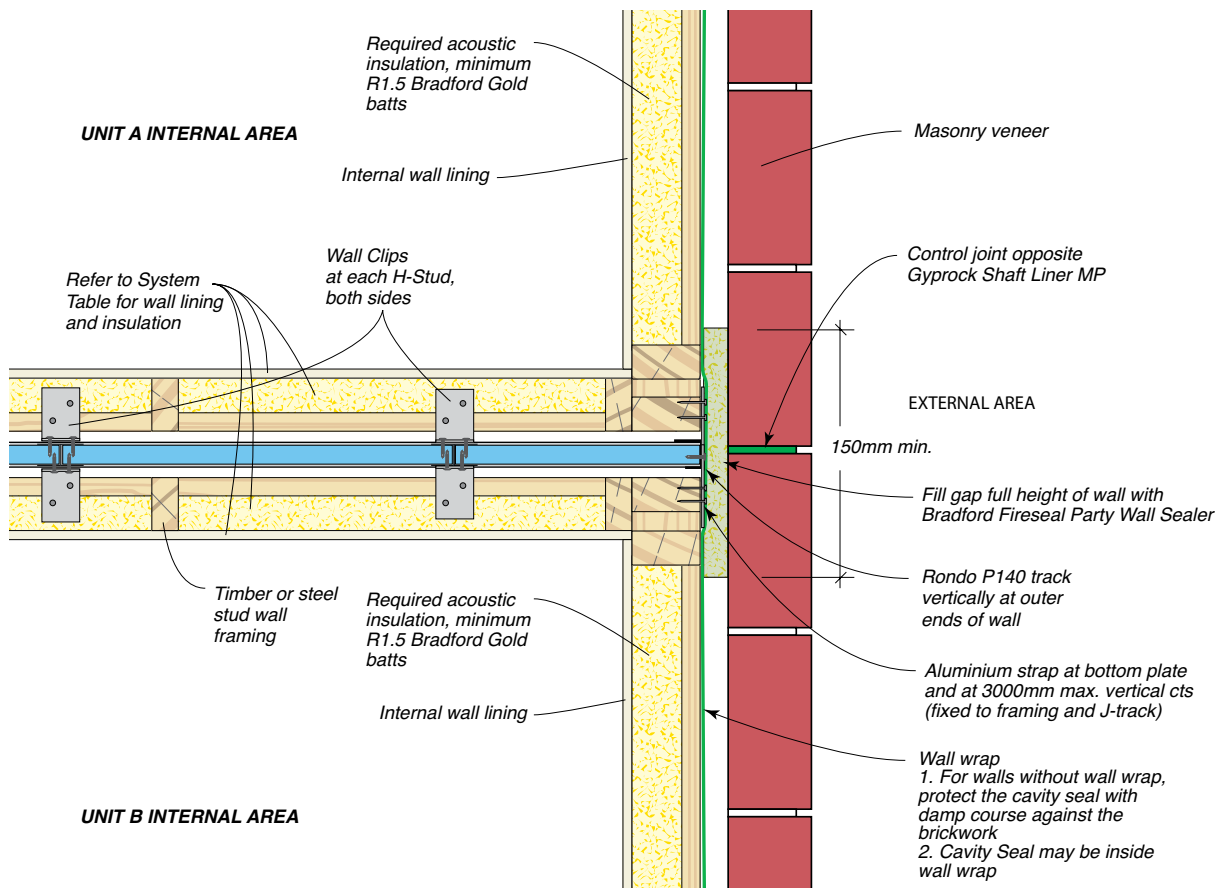


Figure 65: Junction Of Nib Party Wall And External Wall With Lightweight Cladding – Plan View

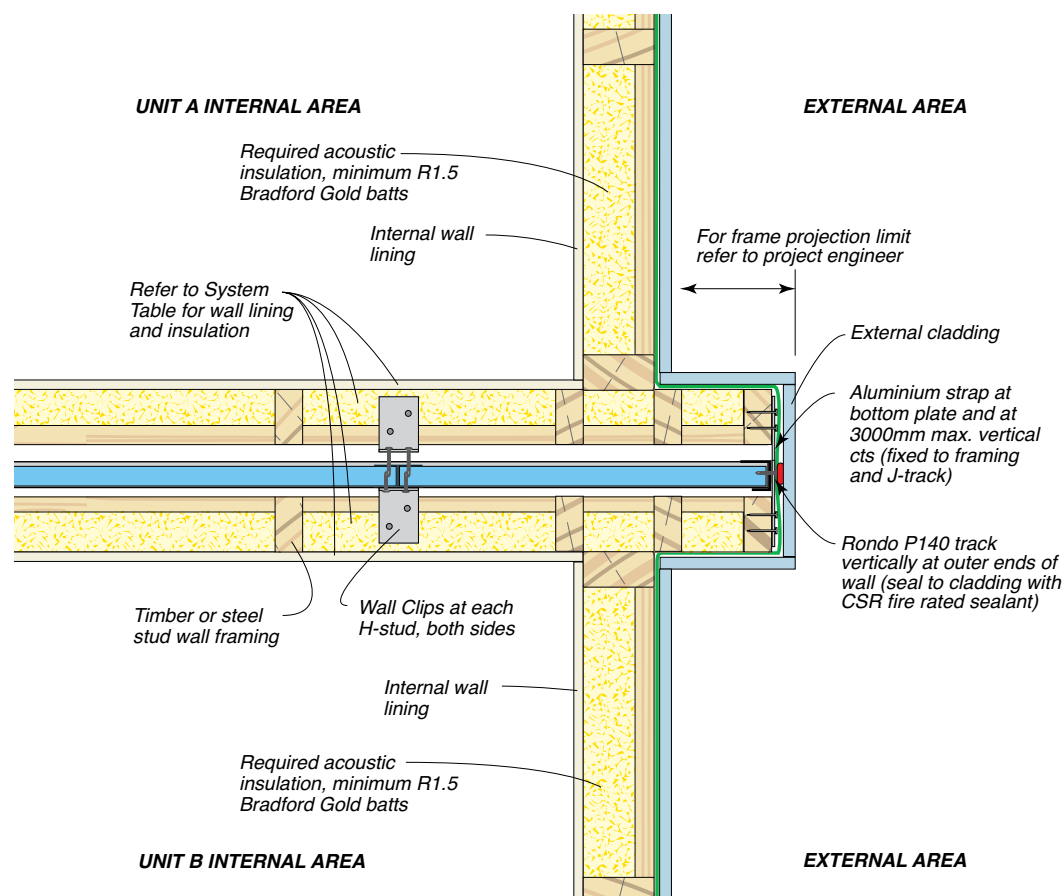


Figure 66: Junction Of Party Wall And External Wall With Brick Veneer At Wall Return – Plan View

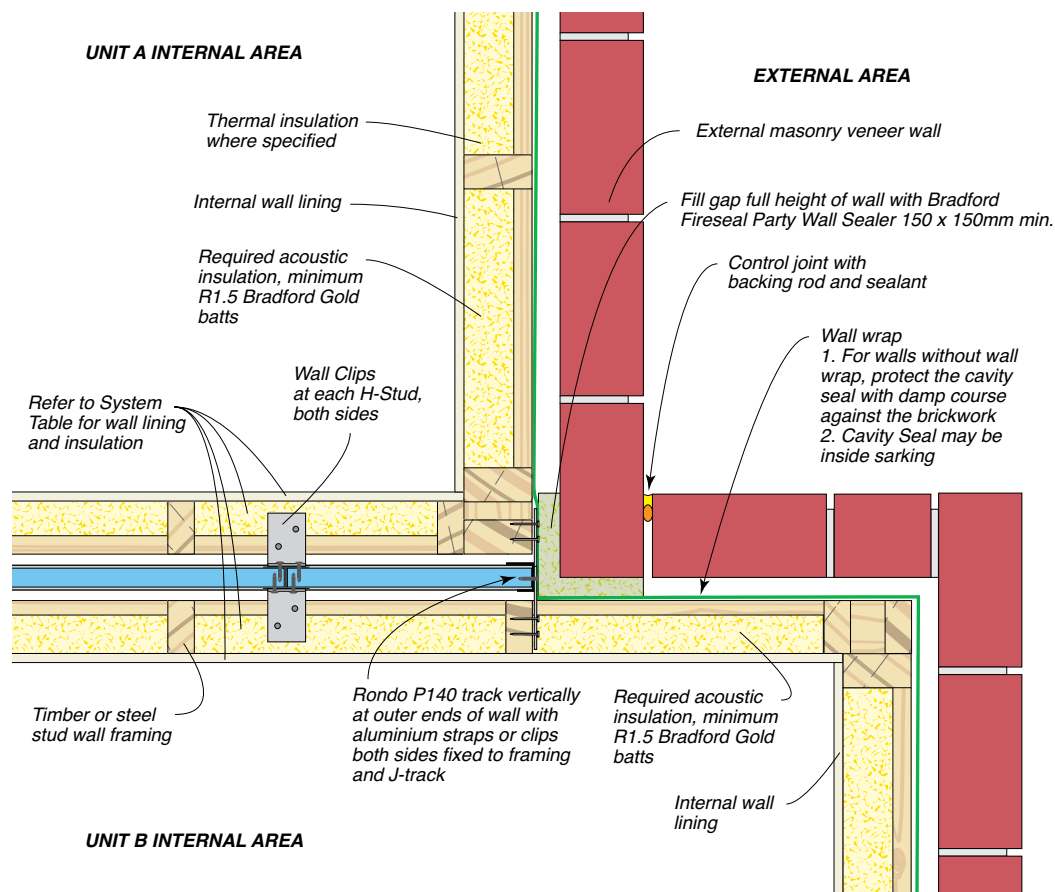


Figure 67: Junction Of Party Wall And External Wall With Lightweight Cladding At Wall Return – Plan View

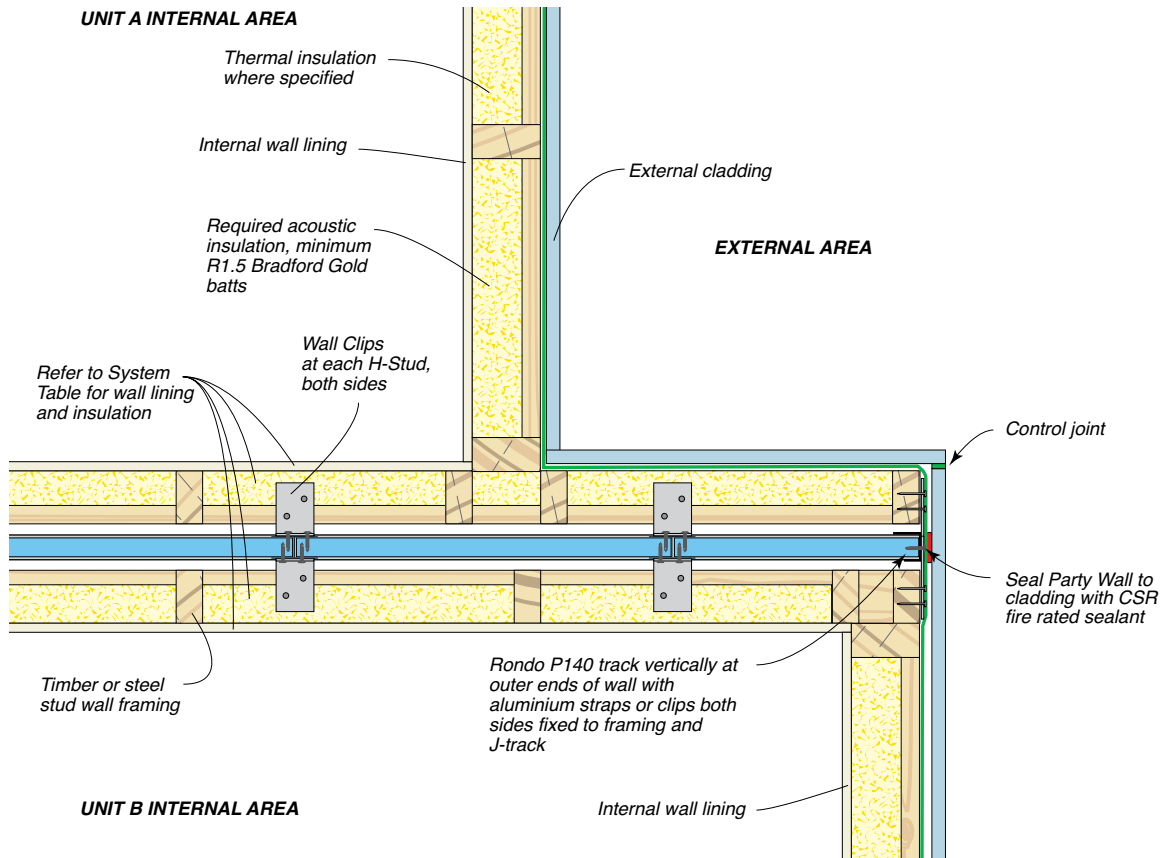


Figure 68: Junction Of Party Wall And External Wall With Lightweight Cladding At Wall Return – Cavity System – Plan View

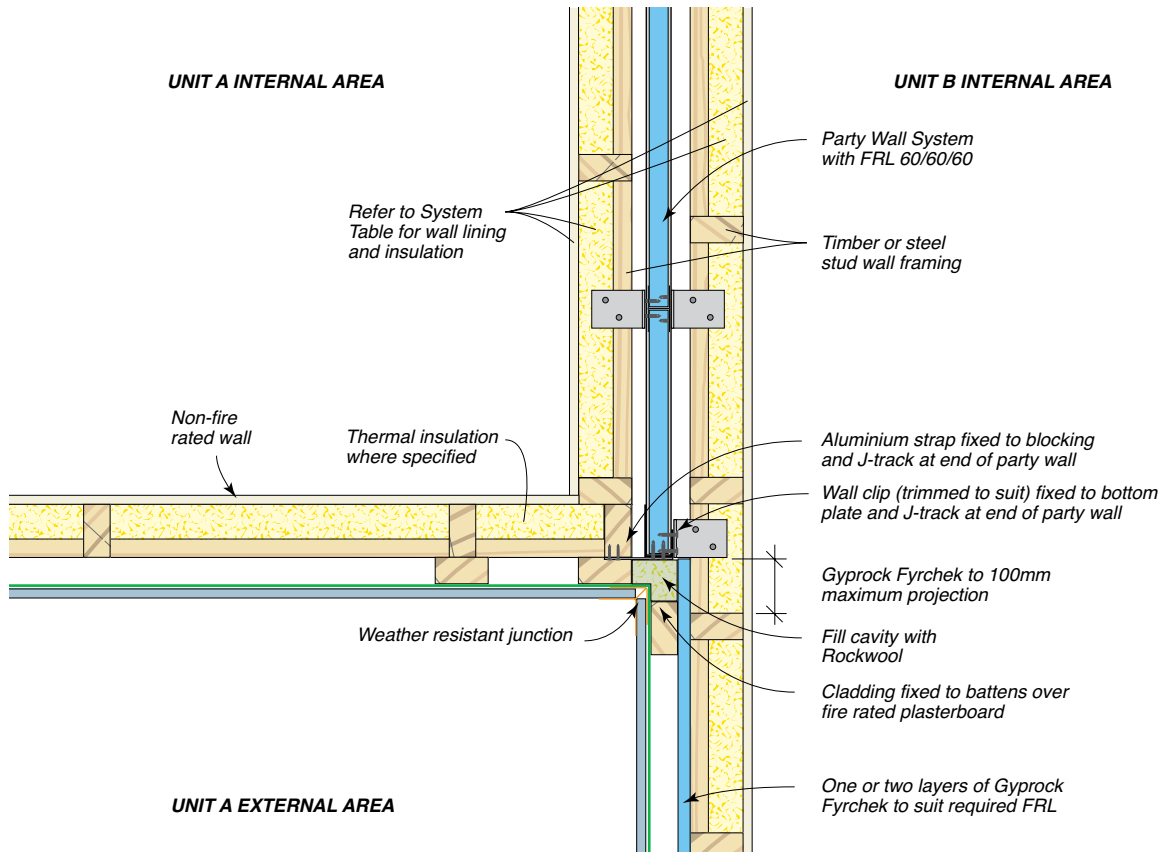


Figure 69: Junction Of Party Wall And External Wall With Lightweight Cladding System Direct Fixed to Framing – Plan View

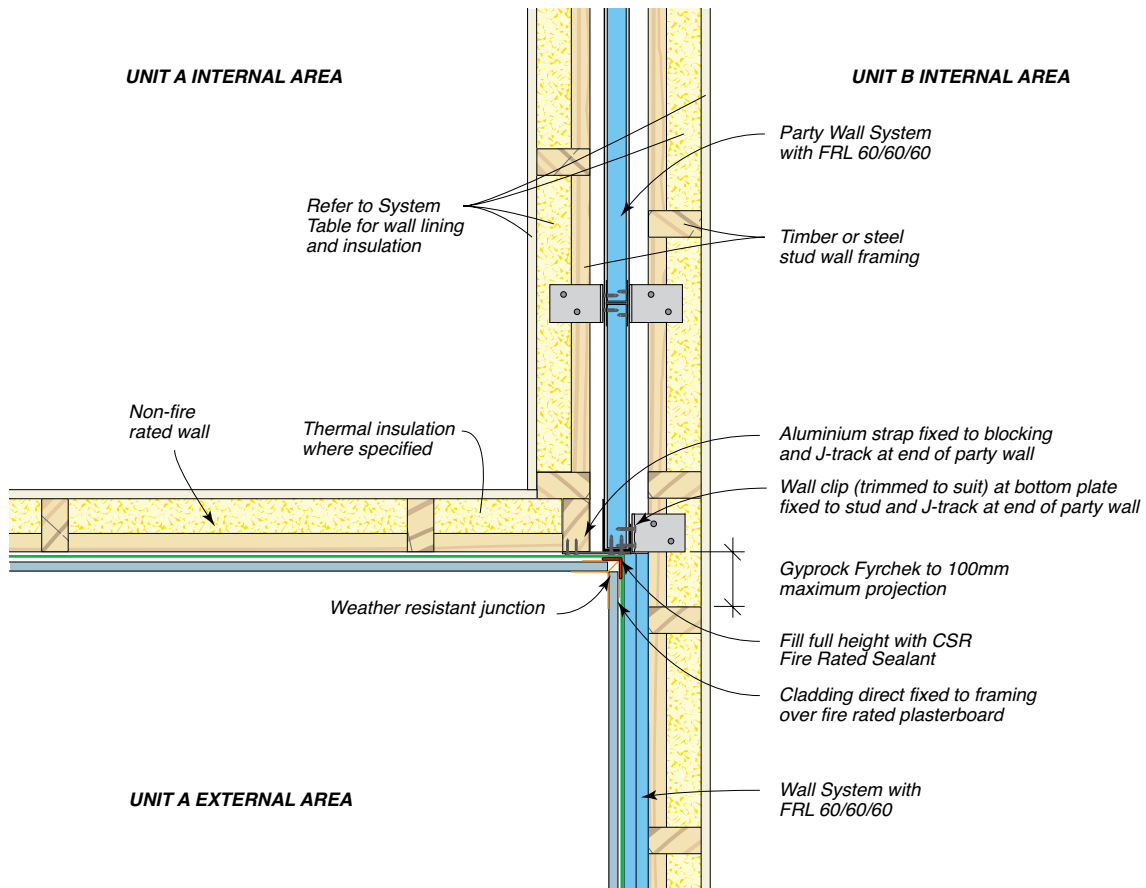


Figure 70: Junction Of Party Wall And External Wall With Cemintel Texture Base Sheet – Plan View

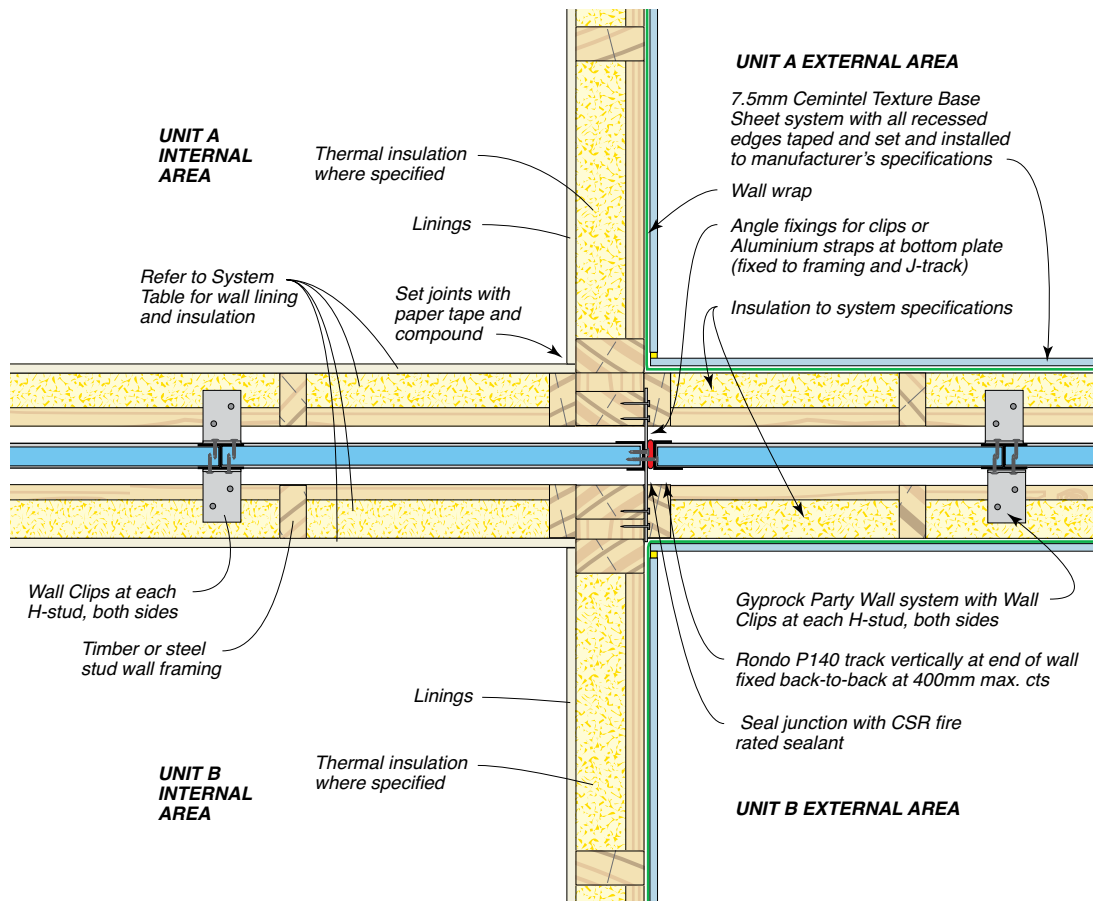


Figure 71: Junction Of Party Wall And External Wall With Aquacheck and Direct Fixed cladding – Plan View

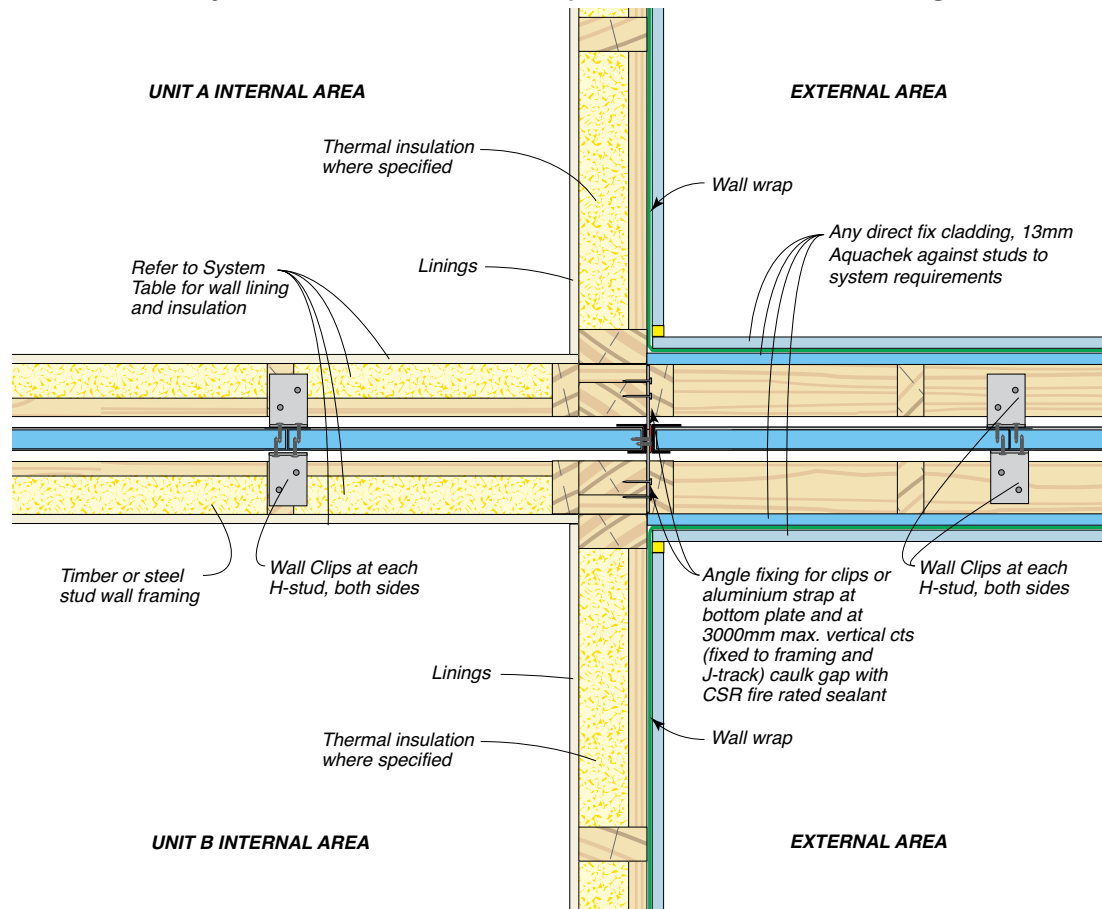
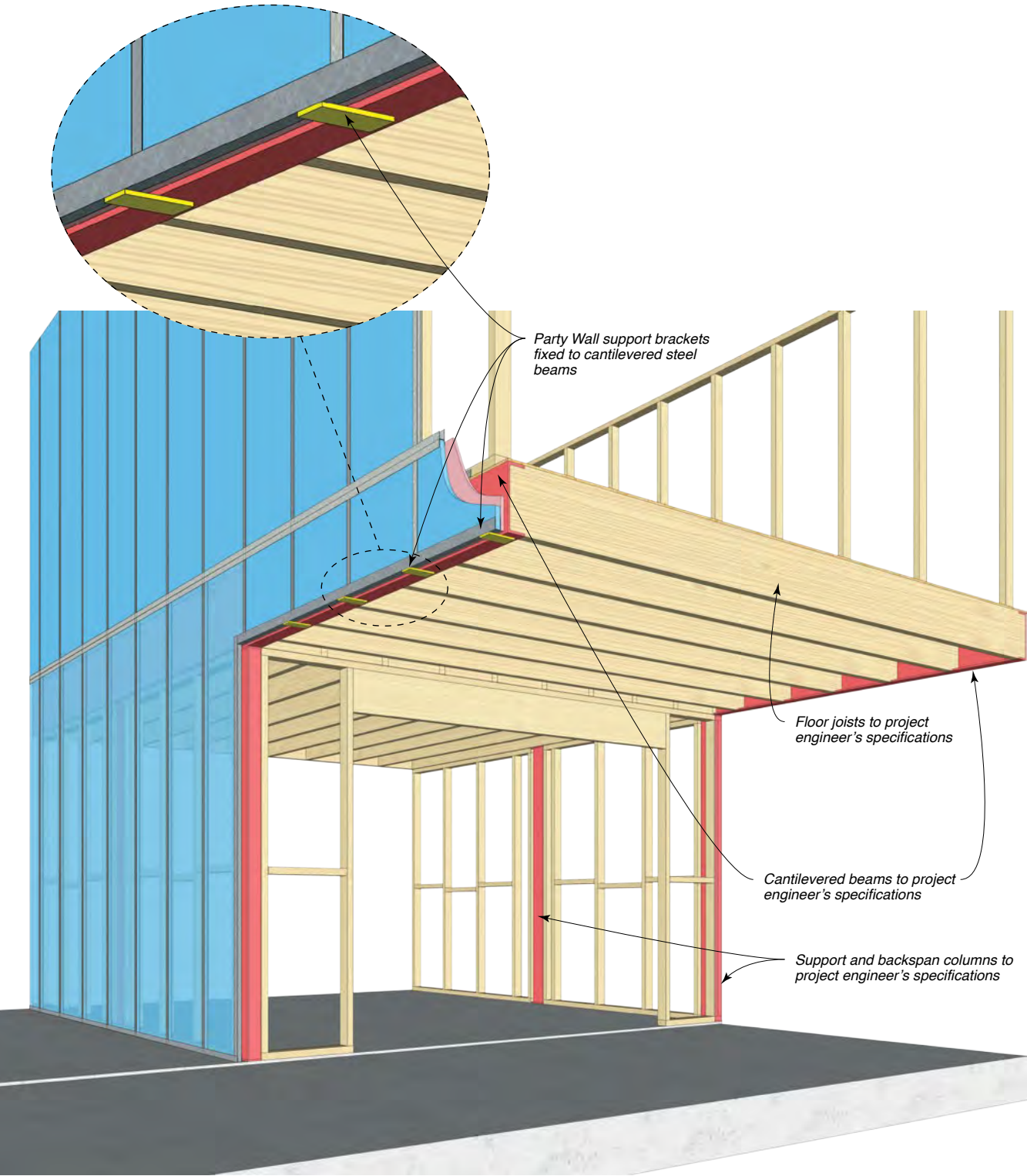


Figure 72: Cantilevered Construction Overview – Timber And Steel Framing



30±10mm

30±10mm

16mm Gyprock fire grade plasterboard laminated to Gyprock Shaft Liner MP

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

200mm min.

Timber or steel framing

Steel beam e.g PFC as shown. Design and fixings to project engineers specification

125x100x6mm flat bars to each beam, spaced at 600mm max. ctrs, and offset 300mm. Welded to channel all around with 5mm CFW

Framing to project specifications

Blocking

Joist

Joist

Blocking

Framing to project specifications

Optional fibre cement sheet for weather protection as per project specification

13mm Gyprock Fyrchek MR

50mm max.

150mm min.

J-track

Furring channel and clips

Acoustic insulation 75mm min. Bradford Gold batts where required

Fill void (50mm max height) with Rockwool. Do not mechanically fix wall base/J-Track to angle brackets or flat bar (cleats)

30±10mm

30±10mm

16mm Gyprock fire grade plasterboard laminated to Gyprock Shaft Liner MP

200mm min.

Timber or steel framing

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

125x100x6mm flat bars to each beam, spaced at 600mm max. ctrs, and offset 300mm. Welded to channel all around with 5mm CFW

Structural beam

Trimmer for clip fixing

Framing to project specifications

Blocking

Joist

13mm Gyprock Fyrchek MR

Blocking

Joist

Framing to project specifications

Optional Fibre cement sheet for weather protection as per project specification

Furring channel and clips

Blocking for fixing of furring channel clips

Steel angle fixed to furring channel and ceiling lining

13mm Gyprock Fyrchek MR

J-track

Acoustic insulation 75mm min. Bradford Gold batts where required

Optional Fibre cement sheet for weather protection as per project specification

Acoustic insulation 75mm min. Bradford Gold batts where required

150mm min.

50mm max.

Fill void (50mm max height) with Rockwool. Do not mechanically fix wall base/J-Track to angle brackets or flat bar (cleats)

30±10mm

30-40mm

16mm Gyprock fire grade plasterboard laminated to Gyprock Shaft Liner MP

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

200mm min.

Timber or steel framing

125x75x6mm x 100mm min. length gal. steel angles each side, spaced at 600mm maximum centres and offset each side by 300mm. Fix to framing to project engineer's specifications to support Gyprock Shaft Liner MP

Framing to project specifications

Cantilevered joist

Alternate angle and location

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

Cantilevered joist

Framing to project specifications

Optional Fibre cement sheet for weather protection as per project specification

Acoustic insulation 75mm min. Bradford Gold batts where required

13mm Gyprock Fireseal Party Wall Sealer

150mm min.

Fill void with Bradford Fireseal Party Wall Sealer

J-track

Furring channel and clips

Acoustic insulation 75mm min. Bradford Gold batts where required

30±10mm

30-40mm

16mm Gyprock fire grade plasterboard laminated to Gyprock Shaft Liner MP

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

200mm min.

Timber or steel framing

600mm max.

125x75x6mm x 100mm min. length gal. steel angles each side, spaced at 600mm maximum centres and offset each side by 300mm. Fix to framing to project engineer's specifications to support Gyprock Shaft Liner MP

Blocking

Framing to project specifications

Cantilevered joist

J-track fixed to framing

13mm Gyprock Fyrchek MR

Fibre cement sheet ceiling 6mm min. thickness

Furring channel and clips

Acoustic insulation 75mm min. Bradford Gold batts where required

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

J-track

50mm max.

13mm Gyprock Fyrchek MR

150mm min.

Fill void with Bradford Fireseal Party Wall Sealer

Optional Fibre cement sheet for weather protection as per project specification

Acoustic insulation 75mm min. Bradford Gold batts where required

Alternate angle and location

Cantilevered joist

Framing to project specifications

Service Penetrations

Fire Appraisal FC13559, FRL as noted.

Metal pipes sizes are nominal outside dimension.

Cable sizes and arrangements are as noted.

Lagging is 25mm foil-faced rockwool batts or 25mm foil-faced SPI minimum density 100kg/m³ and 650°C nominal service temperature.

Service penetrations are permitted in roof spaces only.

Figure 77: Insulated Metal Pipe Penetration – FRL –/90/60

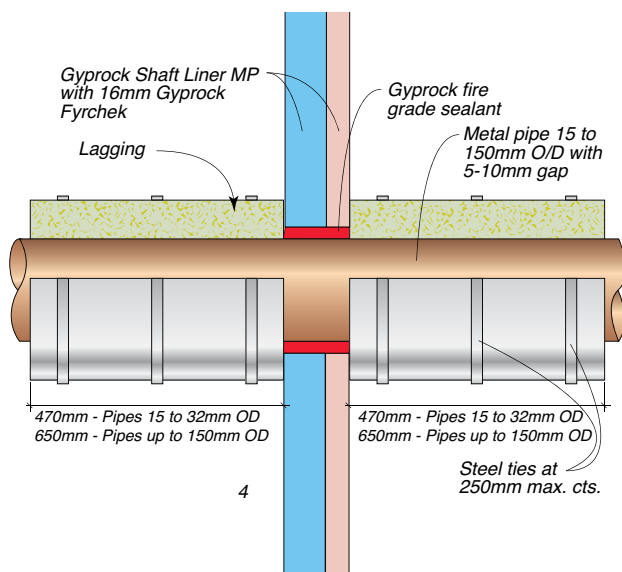


Figure 78: Metal Pipe Penetration – FRL –/90/–

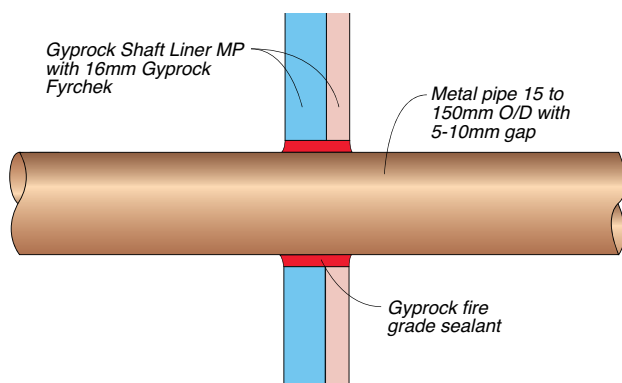


Table 5: Sample Cable Arrangements Per Penetration

Conductor area	Maximum Number
Three core x 1.5mm ²	4
Three core x 2.5mm ²	4
Three core x 6mm ²	1
Single core x 6mm ²	4

Figure 79: Insulated Electrical Cable Penetration – FRL –/90/60

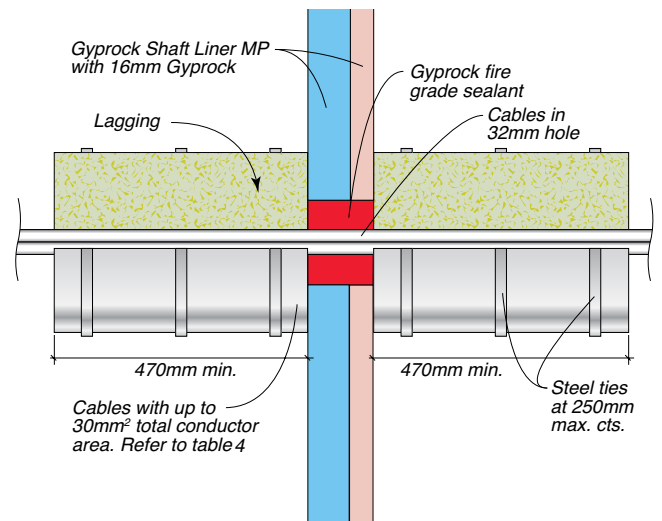


Figure 80: Electrical Cable Penetration – FRL –/90/–

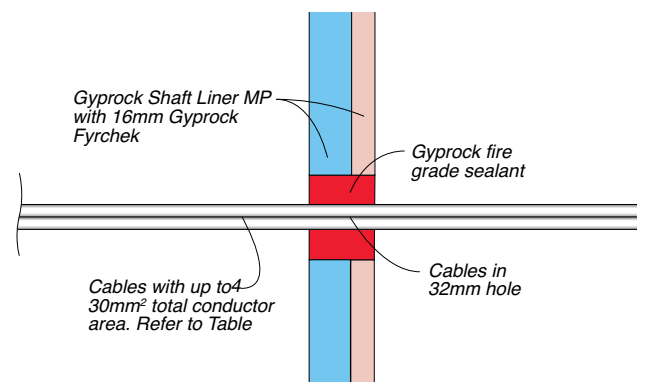
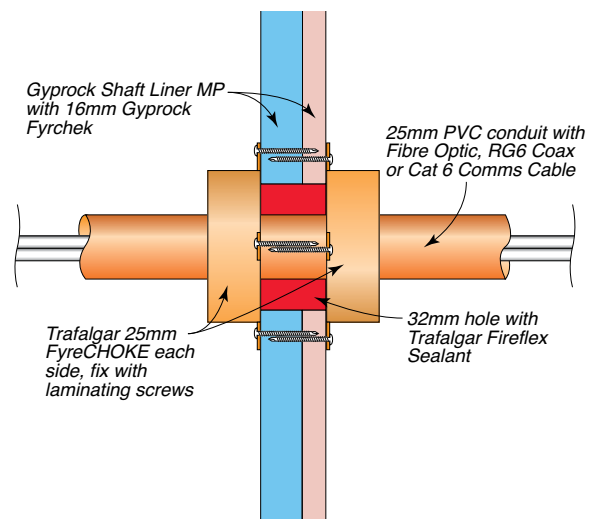


Figure 81: PVC Conduit with Communication Cable Penetration – FRL –/60/60



Gyprock Shaft Liner MP Surface Cracks Repair

Fire appraisal WF 45743, unless noted otherwise.

PROCEDURE

Surface cracks of the Shaft Liner MP must be repaired or replaced.

1. Screw fix 16mm Gyprock fire grade plasterboard at 150mm cts.
2. Plasterboard to extend 150mm min. beyond the damaged area on all sides or full stud width

Figure 82: Gyprock Shaft Liner MP Cracks

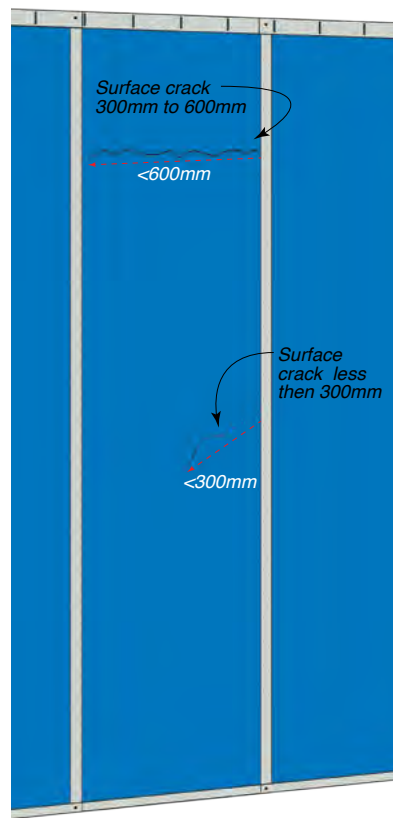


Figure 83: Gyprock Shaft Liner MP Large crack repair

Screw fix 16mm Gyprock fire grade plasterboard, Screws at 150mm cts. plasterboard to extend 150mm min. beyond the damaged area on all sides or full stud width

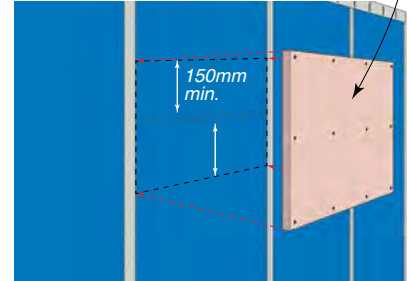
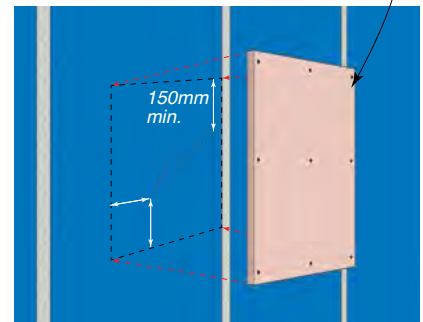


Figure 84: Gyprock Shaft Liner MP Small Crack Repair

Screw fix 16mm Gyprock fire grade plasterboard, Screws at 150mm cts. Plasterboard to extend 150mm min. beyond the damaged area on all sides



Gyprock Shaft Liner MP Surface Delamination Repair

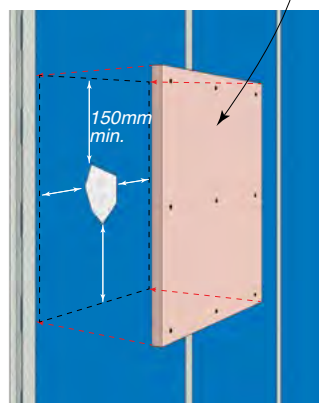
PROCEDURE

Surface delamination of the Shaft Liner MP must be repaired or replaced.

1. Screw fix 16mm Gyprock fire grade plasterboard, screws at 150mm cts.
2. Plasterboard to extend 150mm min. beyond the damaged area on all sides or full stud width

Figure 85: Gyprock Shaft Liner MP Delamination Repair

Screw fix 16mm Gyprock fire grade plasterboard, Screws at 150mm cts. Plasterboard to extend 150mm min. beyond the damaged area on all sides



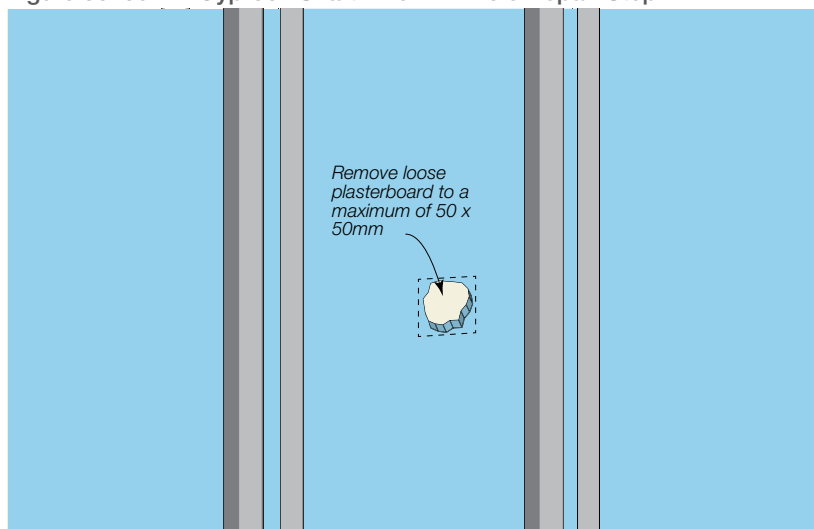
Repairing Gyprock Party Wall System – 50mm Maximum Opening

PROCEDURE

This repair is intended for use prior to fixing of surface linings.

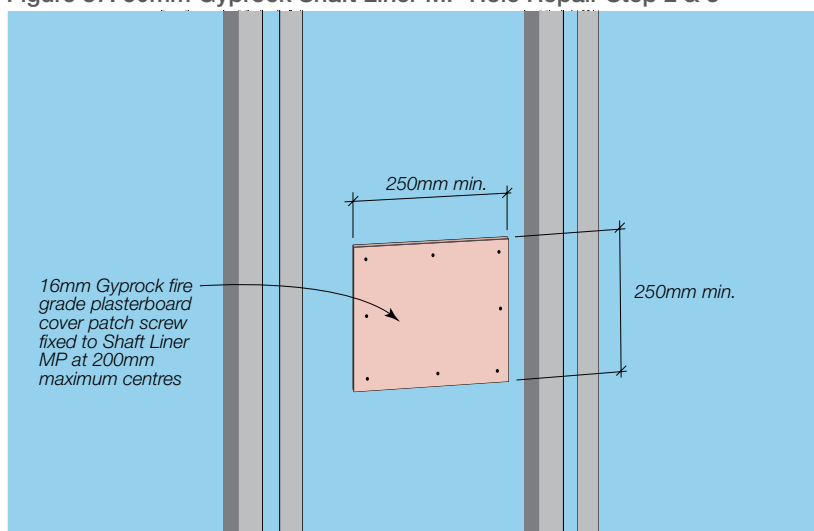
- 1 Remove loose plasterboard from the damaged Shaft Liner MP to a maximum 50 x 50mm.

Figure 86: 50mm Gyprock Shaft Liner MP Hole Repair Step 1



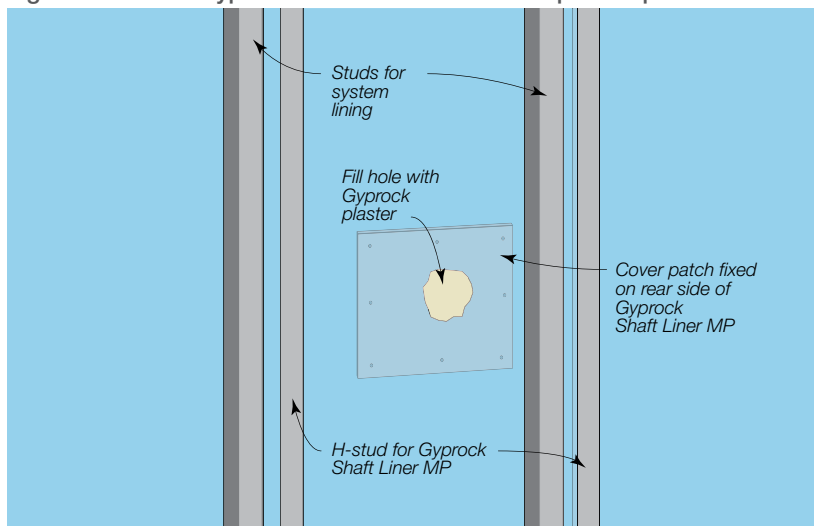
- 2 Prepare a piece of 16mm Gyprock fire grade plasterboard of 250 x 250mm minimum.
- 3 Position the 16mm Gyprock fire grade plasterboard centred over the damage and fix to the Gyprock Shaft Liner MP at 25mm from edges and 200mm maximum centres with laminating screws.

Figure 87: 50mm Gyprock Shaft Liner MP Hole Repair Step 2 & 3



- 4 Return to the other side of the wall, and fill damaged area with a Gyprock plaster.

Figure 88: 50mm Gyprock Shaft Liner MP Hole Repair Step 4



Repairing Gyprock Party Wall System – 300mm Maximum Opening

PROCEDURE

Damaged areas of Gyprock fire grade plasterboard must be replaced with a Gyprock fire grade plasterboard of equal thickness.

- 1 Cut and remove a section of the system lining sheet, high enough to allow access to the damaged Shaft Liner MP, and back to the centreline of studs in the outer Gyprock plasterboard layer, each side of the damage.
- 2 Cut and remove the damaged Gyprock Shaft Liner MP to a maximum 300 x 300mm.
- 3 Prepare a repair panel comprising Shaft Liner MP to fit snugly into the cut-out, screw laminated to 1 layer of 16mm Gyprock fire grade plasterboard with a minimum 100mm border all around.
- 4 Apply plaster around the Shaft Liner MP infill to fill gaps around the cut-out.
- 5 Fit infill panel to cut-out. Fix to existing Shaft Liner MP with laminating screws at 40-50 mm from edges and 200mm maximum centres.
- 6 Cut and install system lining using Gyprock plasterboard equivalent to the original wall specification. Refer to the method used for replacing material detailed in the section on repairing Single Layer Systems later in this guide.
- 7 Fill all gaps up to 3mm with plaster, (e.g. Gyprock Base Coat), and tape and set all outer layer joints to the original wall specification.

Figure 89: <300mm Shaft Liner MP Hole Repair Step 1 & 2

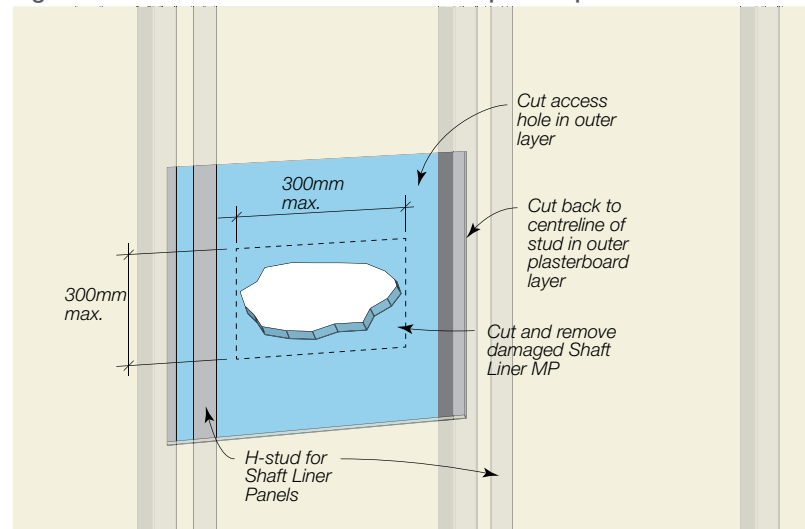


Figure 90: <300mm Shaft Liner MP Hole Repair Step 3 & 4

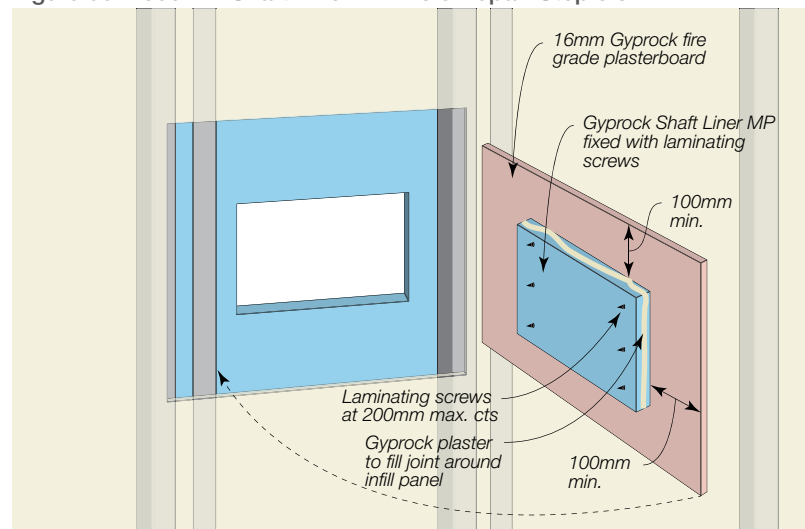
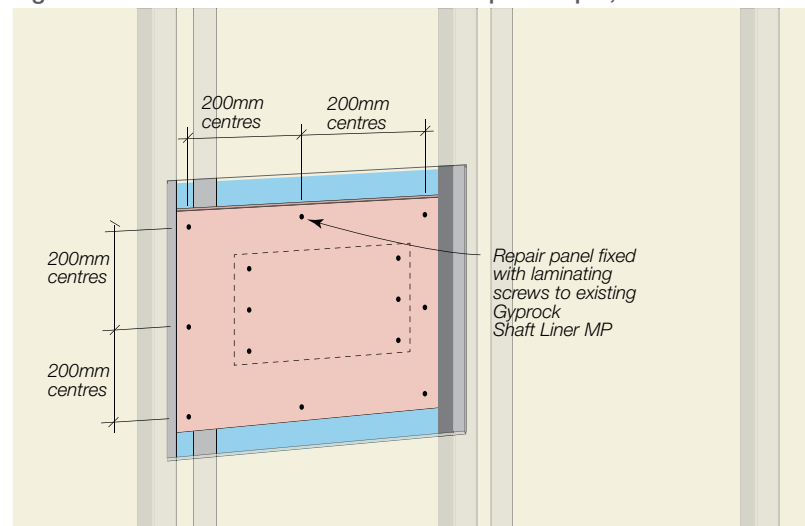


Figure 91: <300mm Shaft Liner MP Hole Repair Step 5,6 &7



Repairing Gyprock Shaft Liner MP – Larger than 300mm Opening

PROCEDURE

Damaged areas of Gyprock Shaft Liner MP must be replaced with a new sheet of Gyprock Shaft Liner MP.

- 1 Cut and remove the damaged system lining sheet, to allow access to the damaged Shaft Liner MP, back to the centreline of studs in the outer Gyprock plasterboard layer, each side of the damage.
- 2 Cut and remove the damaged Shaft Liner MP section to the full width of the panel
- 3 Cut and fold the bottom track down to allow replacement panel installation.
- 4 Install horizontal and vertical, 75mm wide steel backing strips and screw fix at 300mm centres.
- 5 Slide the replacement half width section of Shaft Liner MP into the H-Stud and screw fix to the backing steel.
- 6 Slide the other replacement half width section of Shaft Liner MP into the H-Stud and screw fix to the backing steel.
- 7 Bend the bottom track back into place and make good.

Figure 92: >300mm Gyprock Shaft Liner MP Hole Repair Step 1 & 2

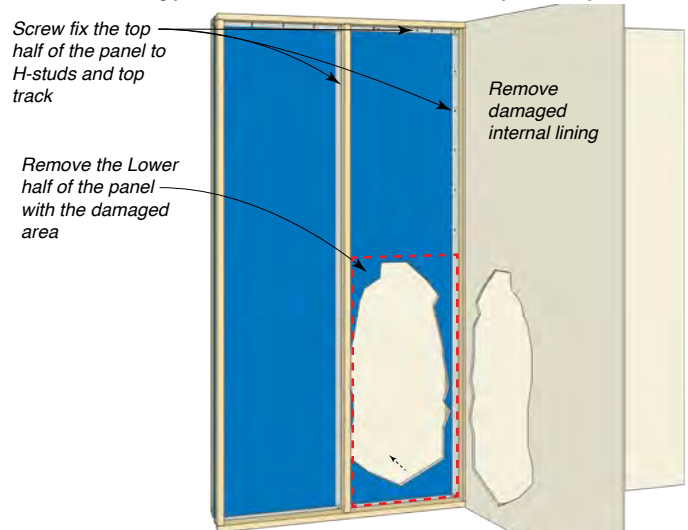


Figure 93: >300mm Gyprock Shaft Liner MP Hole Repair Step 3, 4 & 5

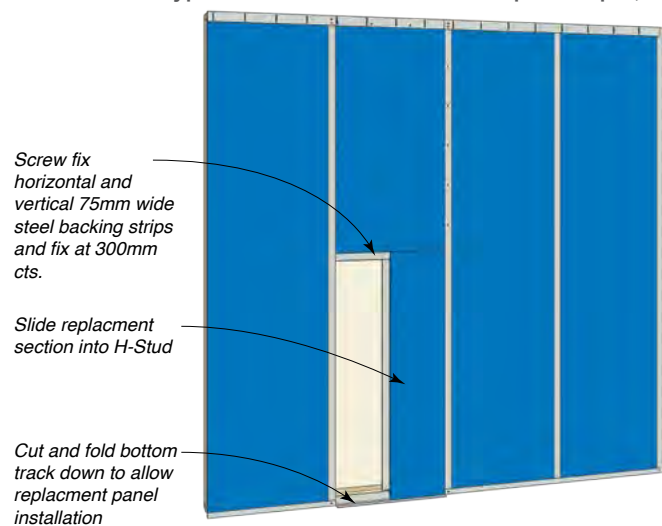
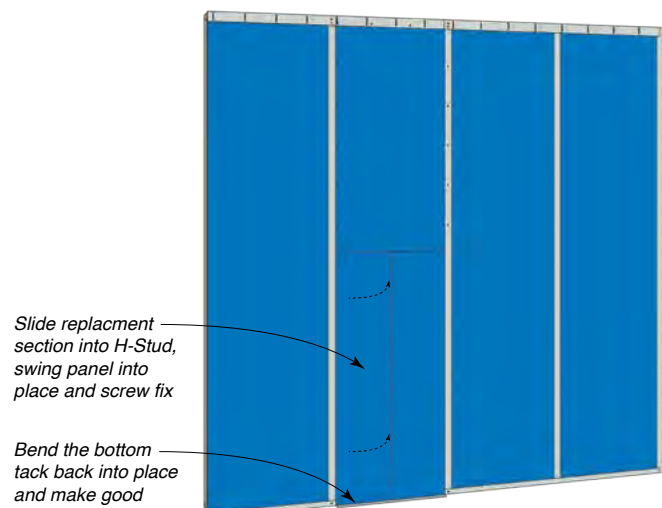


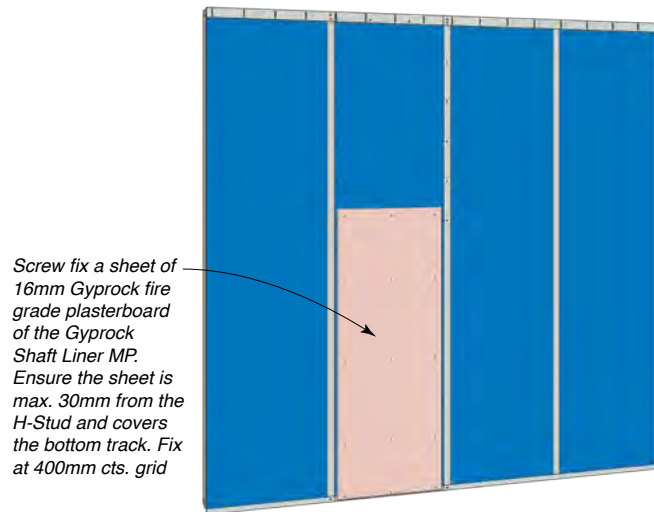
Figure 94: >300mm Gyprock Shaft Liner MP Hole Repair Step 6 & 7



Repairing Gyprock Shaft Liner MP – Larger than 300mm Opening (continued)

- 8 Measure and cut a section of 16mm Gyprock fire grade plasterboard to cover the repair area. Ensure that the sheet is max. 30mm from the H-Studs and covers the bottom track. Fix the panel at 400mm centre grid.

Figure 95: >300mm Gyprock Shaft Liner MP Hole Repair Step 8



- 9 Replace lining using Gyprock plasterboard equivalent to the original wall specification.

Figure 96: >300mm Gyprock Shaft Liner MP Hole Repair Step 9

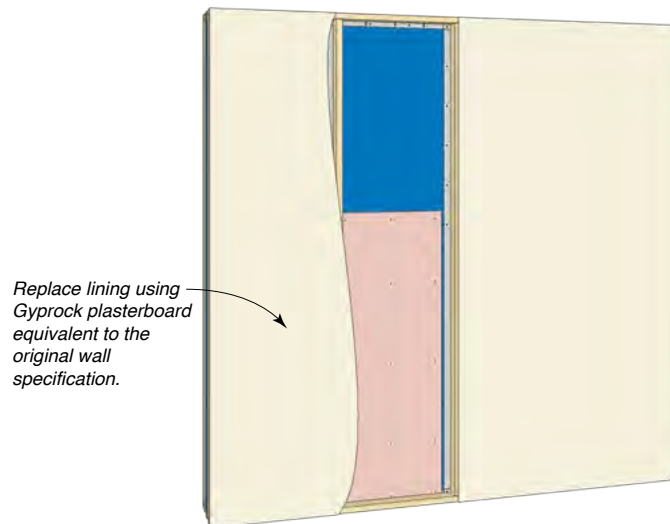
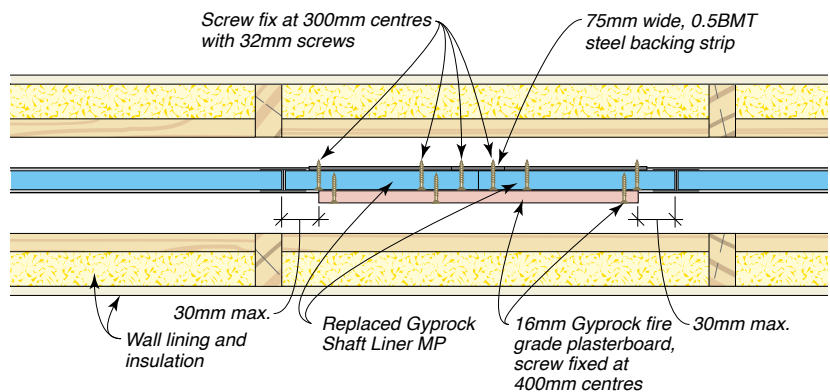


Figure 97: >300mm Gyprock Shaft Liner MP Hole Repair – Plan View



Gyprock Party Wall Installation Checklist

Keep Party Wall system installation on track with this installation checklist, split by installation stage.

Date:
Builder:
Installer:
Project address:
Party Wall location:

Shaft Liner Framing and Panels	
Party Wall H-Studs have been used for vertical framing between panels, and back-to-back J-Tracks for horizontal framing between storeys.	
J-Tracks are located within 600mm of Party Wall clip locations	
Shaft Liner panels have been installed in a vertical orientation, except within 600mm of roof where horizontal panel installation is permitted.	
Bradford Rockwool cavity seal (300mm minimum width) has been installed in the roof batten void at the top of the Shaft Liner MP, and roof batten void depth does not exceed 50mm*	
Wall end cavity voids between Shaft Liner MP and back face of external cladding have been sealed with either CSR Bradford Rockwool cavity seal or CSR Gyprock Fire Mastic or CSR FireSeal as required for cladding type	
Bottom J-Track has been fixed to slab at 600mm centres with fixings commencing 150mm maximum from wall ends, or Party Wall Clips are used at the base of each H-Stud.	
CSR FireSeal or Gyprock Fire Mastic has been used where gaps occur between base track and slab.	

Wall Cavity	
The cavity on both sides of the Party Wall, between wall framing and the central Shaft Liner MP, is between 20 and 40mm (note that 16mm Fyrchek laminated to one side of the Shaft Liner is permitted within the cavity).	

Party Wall Clip and Strap Placement	
Only Gyprock aluminium Party Wall clips and Straps have been used, and are correctly installed as follows:	
Clips are fixed to both sides of each H-Stud and to adjacent wall framing at a track or nogging.	
Party Wall clips and straps are only located at ceiling and floor levels where discontinuous construction is required for acoustic impact performance between rooms . Party Wall clips and straps are fixed with not less than two screws or nails per end.	
Party Wall vertical clip spacing does not exceed; 2.6m vertical centres for systems up to 14.0m total wall height, for plasterboard linings on both sides and up to 7.0m total wall height for fibre cement linings on one side or both sides. OR 2.8m vertical centres for systems up to 12.0m total wall height, for plasterboard linings on both sides and up to 6.0m total wall height for fibre cement linings on one side or both sides. OR 3.0m vertical centres systems up to 10.8m total wall height, for plasterboard linings on both sides and up to 5.0m total wall height for fibre cement linings on one side or both sides. OR 3.4m vertical centres systems up to 9.0m total wall height, for plasterboard linings on both sides.	
Party Wall clips have been installed a maximum of 600mm below vertical Shaft Liner Panel horizontal joints, or the top edge of the Shaft Liner Panel at underside of roof	

Laminated 16mm Fyrchek Layer	
Ensure the following 16mm Fyrchek laminated layer installation requirements are observed:	
Laminated sheet edges must be neatly butted together with gaps not greater than 3mm, and do not require caulking	
Laminated sheet vertical joints to be offset from Shaft Liner H-Stud joints	
16mm Fyrchek laminated sheet to be installed in all non-lined areas with top and bottom edges extending not less than 200mm beyond linings	
Gyprock laminating screws have been used to fix Fyrchek to the central Shaft Liner, with screws at 400x400mm or 500x300mm maximum spacing and 100mm maximum edge offset.	

Services and Service Penetrations	
Service penetrations do not pass through the central Shaft Liner panel, except within the roof cavity where penetrations may be fire sealed or installed in accordance with fire collar manufacturer's Shaft Liner fire tested details when required	
Outer wall lining service penetrations less than 65mm diameter are neatly formed with a 6mm maximum service clearance (note that fire caulking of outer wall lining service penetrations is not required)	
10mm minimum clearance has been provided between services and the central shaft liner with no services fixed to the Shaft Liner or H-Studs.	

Other Items	
Eaves space is sealed with CSR Gyprock Shaft Liner panel within P140 framing.*	
Roof framing, including complex roof forms such as hips and valleys, has been terminated on each side of the Party Wall to allow the central barrier to continue through to the underside of the roof.	
No doorways or openings pass through the Party Wall Shaft Liner or internal wall linings (including meter box recesses)	
Custom construction details such as transitions with other fire wall types must be fire engineered as an alternative solution and approved by the project Certifier or Building Surveyor	

Checklist points marked * are recorded in accordance with NCC installation requirements



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