GYPROCK®

Everything else is just plasterboard

SecurityWall™ Systems

Design and installation guide

CSR

CONTENTS

INTRODUCTION

Gyprock SecurityWall™ Systems are steel framed walls constructed with profiled sheet panels in lieu of studs. These systems are designed to be very rigid and to provide protection against intruder entry.

The steel panels used in the walls make Gyprock SecurityWall up to five times stiffer than stud and track construction and greatly enhance the acoustic performance.

Gyprock SecurityWall Systems have been developed in two configurations, one with steel panels to both sides of a cavity, and one with a steel panel to one side and stud and track to the other side.

They are typically used in multi-residential applications as intertenancy walls that require high levels of acoustic isolation and a greater level of intruder resistance.

Other ideal applications include walls in shopping centres, foyers, atriums, hospital pharmacy areas, warehouse office walls or wherever improved intruder security, fire resistance and/or high acoustic isolation is required.

ADVANTAGES

- **High Security from Steel Sheeting**

  Gyprock SecurityWall Systems incorporate steel sheeting within the wall, providing a simple and effective deterrent to intruder entry.

- **High Acoustic Performance**

  Gyprock SecurityWall Systems offer very high acoustic resistance. Values of up to R_W = 63 and $R_W + C_{tr}$ = 55. This far exceeds the BCA requirements and is suitable for intertenancy walls.

- **High Acoustic Impact Isolation**

  All Gyprock SecurityWall Systems offer effective impact isolation as each wall face is supported on independent framing.

- **Fast Simple Construction**

  Gyprock SecurityWall Systems utilise light and easily handled components, ensuring the systems are simple and quick to construct using drywall techniques and tradespeople.

Slender Walls with High Rigidity

Gyprock SecurityWall Systems utilise continuous steel sheet profiles as framing, keeping the wall width to a minimum, while remaining extremely rigid for wall heights up to 3.6m.

- **Suitable for Plumbing Services**

  Gyprock SecurityWall Systems are suitable for the incorporation of services without the need for plasterboard baffles within the wall cavity.

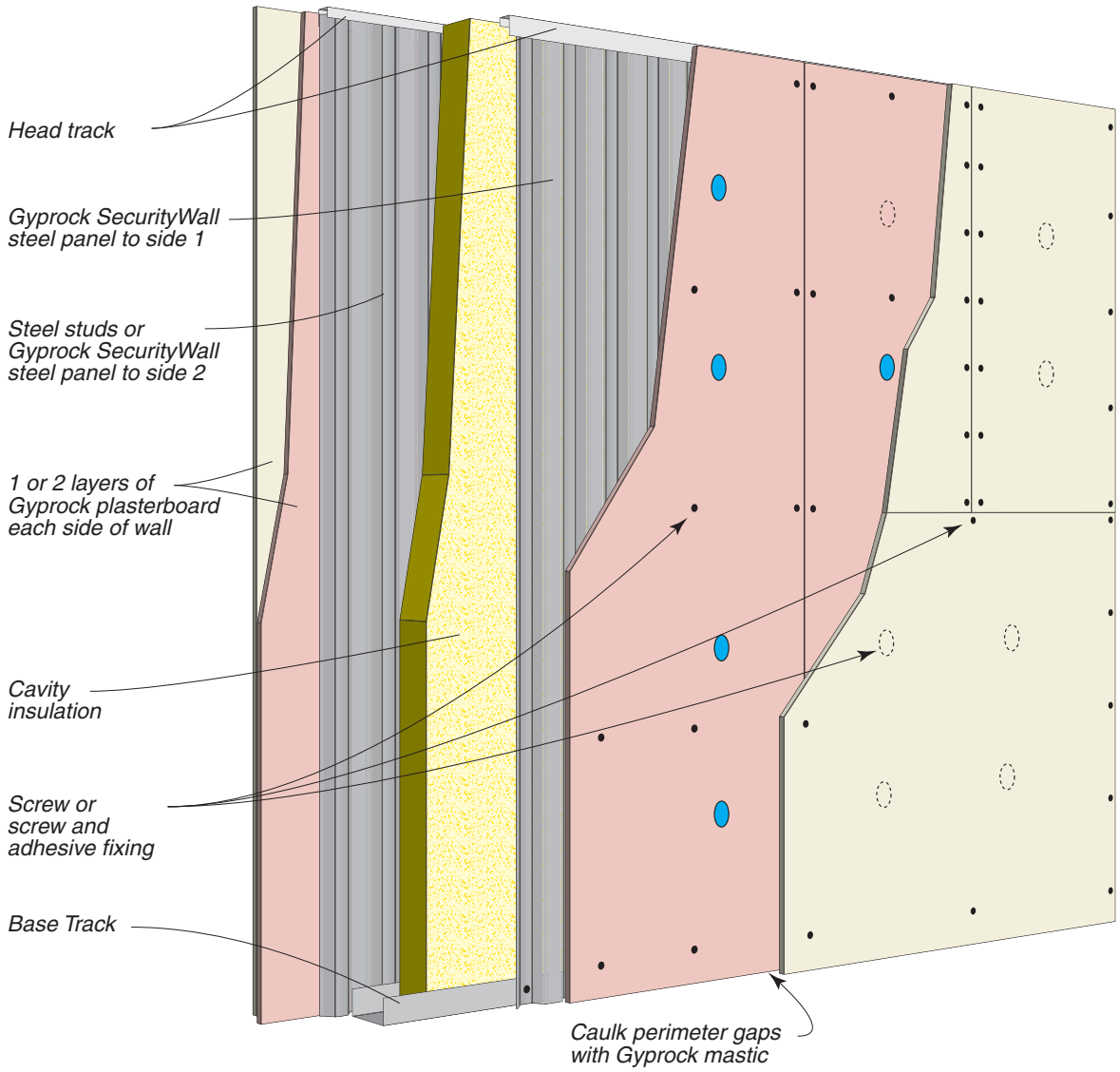
- **Fire Rated Construction of up to FRL –/90/90**

  Gyprock SecurityWall Systems benefit from the fire performance of Gyprock Fyrchek Plasterboard to achieve fire ratings of –/90/90. Higher ratings can be achieved, please contact CSR Gyprock for additional information.

- **Low Volume of Materials On-site**

  Gyprock SecurityWall Systems are constructed with steel sheet profiles as framing, minimising the volume of materials on-site, saving space and making delivery and handling easier.

FIG 1: TYPICAL LAYOUT FOR GYPROCK SECURITYWALL SYSTEM



COMPONENTS

Gyprock Plasterboard Selection

All Gyprock plasterboards are manufactured to the requirements specified in AS2588 : 1998 – Gypsum Plasterboard.

Gyprock plasterboards 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, with some products 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

GYPROCK® PLASTERBOARDS	APPLICATIONS – WALLS & CEILINGS FEATURES	THICKNESS (mm)	MASS kg/m²	FIRE GRADE	MOISTURE RESISTANT	ENHANCED IMPACT RESISTANCE	ENHANCED SOUND RESISTANCE	ENHANCED SOUND ABSORPTION	LOW VOC	MOULD RESISTANT	GREEN STAR CERTIFIED
Standard Plasterboard Recessed Edge	• Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. • 10mm and 13mm thickness. • Quality manufactured to the requirements specified in AS2588 : 1998 – Gypsum Plasterboard.	10	6.5						✓		
		13	8.5								
Standard Plasterboard Recessed Edge/ 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.	10	6.5						✓		
		13	8.5								
Standard Plasterboard Square Edge	• Long edges are square, and can be butted together without jointing, or covered with aluminium, timber or vinyl mouldings.	13	8.5						✓		
Impactchek™	• Fire grade board reinforced with a woven fibreglass mesh to produce a high strength plasterboard to resist soft body impact damage. • High traffic areas such as hallways, stairways, playrooms and garages. • Long edges are recessed for flush jointing.	13	10.3	✓		✓	✓		✓		
Superchek™ CSRG-2011 GECA 04-2011 PANEL BOARDS	• Manufactured with a very dense core and heavy duty facing producing high impact and sound resistance. • 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. • Has a white paper face to assist in paint coverage. • Long edges are recessed for flush jointing.	10	10.4			✓	✓		✓		★
Flexible	• 6.5mm thickness plasterboard with an enhanced core to allow bending to small radii for curved walls and ceilings. • Designed for installation as a two layer system. • Recessed long edges allow flush jointing to other Recessed Edge plasterboards.	6.5	4.25						✓		
Fyrchek™	• Fire grade board composed of a specially processed glass fibre reinforced gypsum core encased in a heavy duty linerboard. • High performance fire and acoustic rated walls and ceilings. • Long edges are recessed for flush jointing.	13	10.5	✓			✓		✓		
		16	12.5								
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	10.7	✓	✓		✓		✓		
		16	13.5								

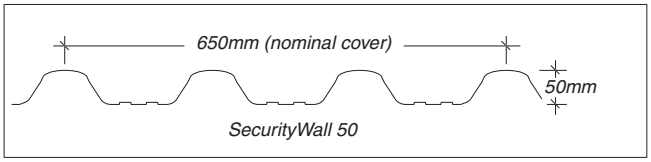
TABLE 2: GYPROCK PLASTERBOARD FEATURES, APPLICATIONS & SPECIFICATIONS

GYPROCK® PLASTERBOARDS	APPLICATIONS – WALLS & CEILINGS FEATURES	THICKNESS (mm)	MASS kg/m²	FIRE GRADE	MOISTURE RESISTANT	ENHANCED IMPACT RESISTANCE	ENHANCED SOUND RESISTANCE	ENHANCED SOUND ABSOPTION	LOW VOC	MOULD RESISTANT	GREEN STAR CERTIFIED
ECO8™ Partition	• An environmentally preferred board for general wall and ceiling applications. • Certified by GECA as meeting the requirements of their environmental standard for Panel Boards. • Suitable for GREEN STAR projects. • Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. CSRG-2011 GECA 04-2011 PANEL BOARDS	13	9.3						✓		★
ECO8™ Aqua	• Specially treated board to resist moisture without compromising strength and integrity. • Certified by GECA as meeting the requirements of their environmental standard for Panel Boards. • Suitable for GREEN STAR projects. • Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. CSRG-2011 GECA 04-2011 PANEL BOARDS	13	9.8		✓				✓		★
ECO8™ Fire	• Fire grade board also offering enhance acoustic performance for wall and ceiling applications. • Certified by GECA as meeting the requirements of their environmental standard for Panel Boards. • Suitable for GREEN STAR projects. • Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. CSRG-2011 GECA 04-2011 PANEL BOARDS	13	10.5	✓			✓		✓		★
ECO8™ Impact	• Fire grade board also 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. • Certified by GECA as meeting the requirements of their environmental standard for Panel Boards. • Suitable for GREEN STAR projects. • Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. CSRG-2011 GECA 04-2011 PANEL BOARDS	13	12.1	✓		✓	✓		✓		★
ECO8™ Impact MR	• Fire grade board specially treated board 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. • Certified by GECA as meeting the requirements of their environmental standard for Panel Boards. • Suitable for GREEN STAR projects. • Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. CSRG-2011 GECA 04-2011 PANEL BOARDS	13	12.4	✓	✓	✓	✓		✓		★
ECO8™ Complete	• A premium quality, environmentally preferred, fire grade board. Integrates an efficient mould inhibitor, scuff resistance, soft and hard body impact resistance, moisture resistance, sound resistance and low VOC. • Certified by GECA as meeting the requirements of their environmental standard for Panel Boards. • Suitable for GREEN STAR projects. • Long edges are recessed to assist in producing a smooth, even and continuous surface once jointed. CSRG-2011 GECA 04-2011 PANEL BOARDS	13 16	12.4 14.8	✓	✓	✓	✓		✓	✓	★

Steel Components

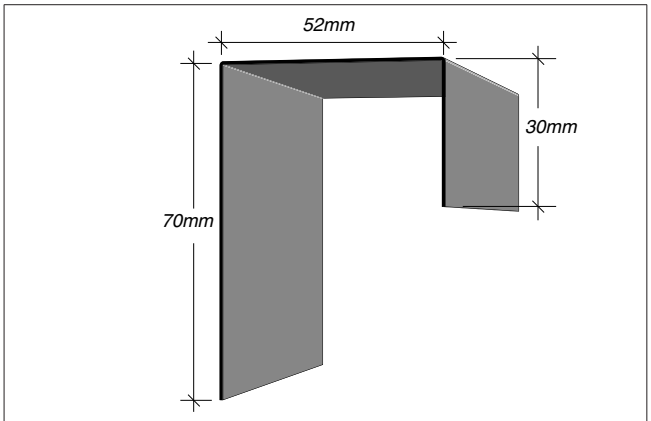
SecurityWall Panel 50

- SecurityWall Panel 50 is a Zincalume coated, roll formed steel sheet with a 50mm profile depth.



Gyprock SecurityWall Track

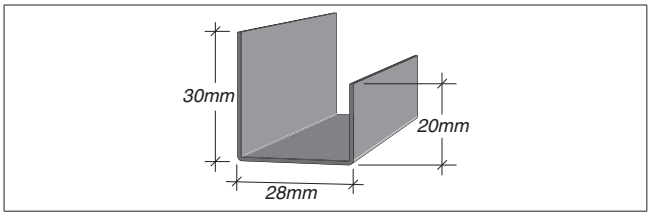
- Gyprock SecurityWall Track 50 is used at the head and base of steel panels in some systems and as detailed at perimeter junctions.



STANDARD PRODUCTION LENGTH	
Gyprock SecurityWall Track 50	4800 mm

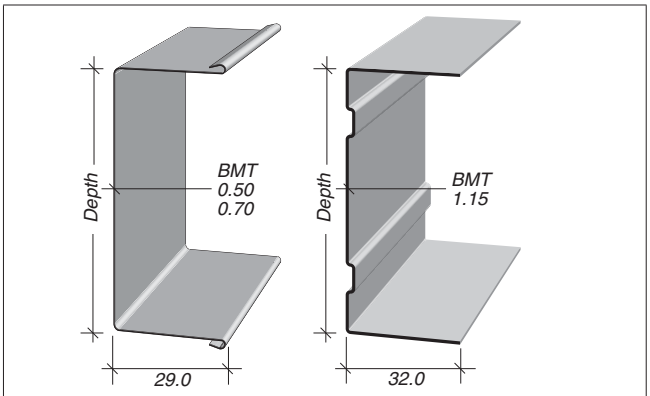
Rondo J Track

- Used at the base of some wall systems to locate SecurityWall Panels.



Wall Track

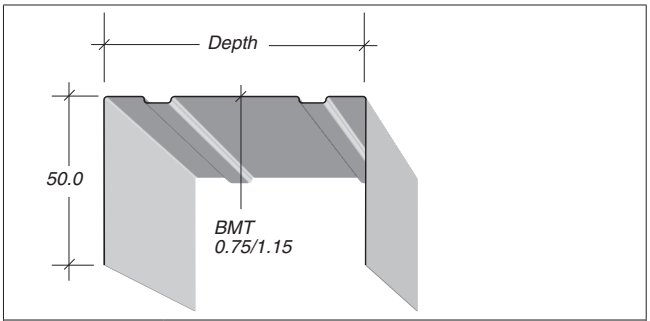
- Rondo Wall Track is used at the head and base of some systems to locate SecurityWall sheets and studs.



STANDARD PRODUCTION SIZES				
Depth (mm)	BMT			Length (mm)
	0.5*	0.7*	1.15	
51	✓	–	–	3000
64	✓	✓	✓	3000
76	✓	✓	✓	3000
*= Rondo Hemmed Track				

Deflection Head Track

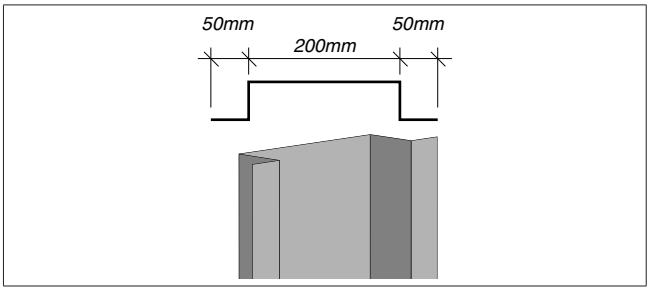
- Rondo Deflection Head Track is used at the top of wall frames connected to a concrete slab to locate the wall studs and to allow for vertical deflection of the ceiling/soffit. Studs are held in the track by friction and must not be fixed to the deflection track in any way. Plasterboard must not be fixed through the track. NOTE: Hemmed track leg length = 46mm



STANDARD PRODUCTION SIZES				
Depth (mm)	BMT			Length (mm)
	0.7*	0.75	1.15	
51	✓	–	–	3000
64	✓	–	✓	3000
76	✓	–	✓	3000
*= Rondo Hemmed Track				

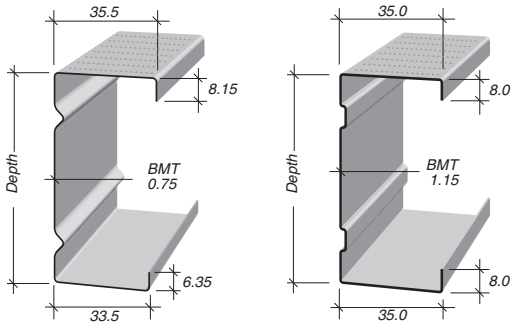
Gyprock Silencer

- The Gyprock Silencer is installed in the wall cavity to provide acoustic isolation and support for services.



Rondo Steel Studs

- Rondo Steel Studs are used in some systems as wall framing.



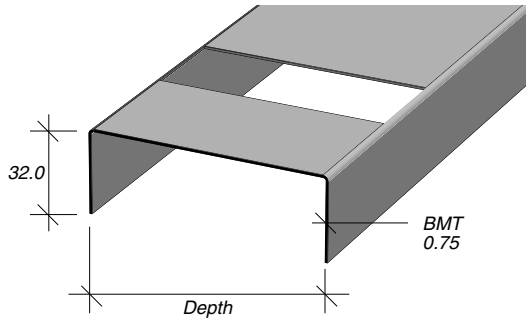
RONDO LIPPED STEEL STUD PROFILES RONDO HEMMED STUD

STANDARD PRODUCTION SIZES (mm)										
Depth	BMT	2400	2700	3000	3300	3600	4200	4800	6000	7200
64	0.50*	✓	✓	✓	✓	✓	✓			
	0.75	✓	✓	✓		✓		✓		
	1.15		✓	✓						
76	0.55*	✓	✓	✓	✓	✓	✓	✓		
	0.75	✓	✓	✓		✓		✓	✓	
	1.15	★	★	✓		★		★	★	
92	0.55*	✓	✓Q	✓Q	✓	✓Q	✓	✓	✓	
	0.75	✓	✓	✓	✓		✓	✓	✓	
	1.15		★	✓		★		★	★	★

★ = Production lead time may be required **Q** = Rondo Quiet Stud *= Rondo Hemmed Stud

Nogging Track

- Rondo Nogging Track is designed to support the wall studs and prevent twisting of the studs. Factory punched holes in the web allow quick installation to the studs. Nogging track is an alternative to conventional cut noggings. When fitted, nogging track should be screw fixed or crimped to both flanges of each stud.

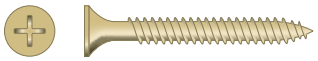


STANDARD PRODUCTION SIZES			
Depth (mm)	Stud Spacing		Length (mm)
	450mm	600mm	
	Track 0.75 BMT		
51	✓	✓	3600
64	✓	✓	3600
76	✓	✓	3600
92	✓	✓	3600
150	✓	✓	3600

Fixings & Adhesives

Plasterboard Screws

- Screws for fixing Gyprock plasterboard to steel framing. For wet area applications, Class 3 fasteners must be used. To guarantee performance, only approved fasteners should be used in these systems.
- Gyprock Type 'S' Needle Point (NP) Screws. #6 x 25, 30 and 45mm length.



- Tek Screws 8-15 x 15mm button head for fixing sheet to track and other steel components. Supplied by others.
- Additional fixings as detailed or to project engineer's specifications. Supplied by others.

TABLE 3: SCREWS FOR FIXING PLASTERBOARD TO STEEL 0.5 – 0.8MM BMT		
Plasterboard Thickness	**1st Layer**	**2nd Layer**
10mm Plasterboard	Type S #6-18 x 25mm NP Screw	–
13mm Plasterboard	Type S #6-18 x 25mm NP Screw	–
16mm Plasterboard	Type S #6-18 x 30mm NP Screw	–
16mm + 10mm Plasterboard	Type S #6-18 x 30mm NP Screw	Type S #6-18 x 45mm NP Screw

Stud Adhesive

- Gyprock Acrylic Stud Adhesive is coloured blue for easy identification. It can be used steel in temperatures not less than 5ºC.

  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.

Caulking Materials

Sealants are used for caulking at the head and base of plasterboard sheets, at wall junctions and around penetrations.

- **Gyprock Fire Mastic or CSR FireSeal:**

  For use in all fire rated applications.

- **Gyprock Wet Area Acrylic Sealant:**

  For use in non-fire rated wet area applications and non fire rated applications.

- **Promat IBS Rod**

  22mm diameter for use in alternative control joint construction.

Insulation Materials

CSR Gyprock SecurityWall Systems incorporate CSR Bradford glasswool insulation. These products have undergone significant acoustic testing and have a proven track record of performance and durability in service. Additional information on CSR 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.

Acoustic Polyester insulation manufactured by Tontine and Autex have been tested in acoustic applications by the manufacturer and are specifically made for that purpose. CSR accepts the use of Tontine and Autex Polyester insulation.

Product	Abbreviation
50mm Bradford Glasswool Partition batts – 11kg/m^3	50 GW Partition – 11kg
75mm Bradford Glasswool Partition batts – 11kg/m^3	75 GW Partition – 11kg
Tontine TSB 2 (50mm) / Autex ASB 2 (50mm) Polyester Insulation	TSB2/ASB2 Polyester
Tontine TSB 3 (65mm) / Autex ASB 3 (60mm) Polyester Insulation	TSB3/ASB3 Polyester
Tontine TSB 4 (75mm) / Autex ASB 4 (70mm) Polyester Insulation	TSB4/ASB4 Polyester

Jointing Materials

- Gyprock Jointing Compounds and products as detailed in the Gyprock Commercial Installation Guide, NºGYP548.
- A minimum of one layer of Gyprock Base Coat and paper tape is required to all joints in the outer layer of plasterboard. Refer to Gyprock Commercial Installation Guide, NºGYP548 for Jointing & Finishing details.

DESIGN CONSIDERATIONS

Structural Performance

Gyprock SecurityWall Systems have been designed to meet the deemed-to-satisfy provisions of BCA Specification C1.8 Clause 3.4, for resistance to a static pressure equal to 0.25kPa (ultimate). They are not designed to support shelf loads or axial loads, and the plasterboard must be taped and set in accordance with the Gyprock Commercial Guide, NºGYP548. Refer to Wall Height & Stud Selection Tables for maximum wall heights when constructed with Gyprock SecurityWall Panel and Rondo C studs.

Control Joints

A control joint through the wall is required where a control joint is provided in the structure. Control joints must be provided in walls at 12m maximum spacings. Control joints are to be constructed as detailed in the Junctions & Penetration section.

Acoustic Performance

The acoustic performance of the CSR SecurityWall system has been evaluated by laboratory testing at National Acoustic Laboratory. System CSR292 (b) 157mm thick achieved R_W 59 (C_{tr} -8), Report AFT 1171. Other systems presented in this manual are estimates of laboratory performance calculated by PKA Consulting.

The actual system performance is dependant on many site related issues, though typically, field performance is between 2 and 5 R_W units lower than laboratory performance.

Service penetrations such as cables, light switches, pipes and taps may be installed in accordance with the details without reducing the system acoustic values, subject to the following conditions (PKA assessment 213 168):

- A minimum of 50mm thick, 11kg/m^3 insulation must be installed throughout the wall cavity.
- The area of openings in the wall linings must not exceed 5% of the wall's area, considered for each room.
- Holes in the Gyprock Silencer or track for services may be up to 25mm diameter and must be sealed with flexible sealant such as Gyprock Wet Area Acrylic Sealant.

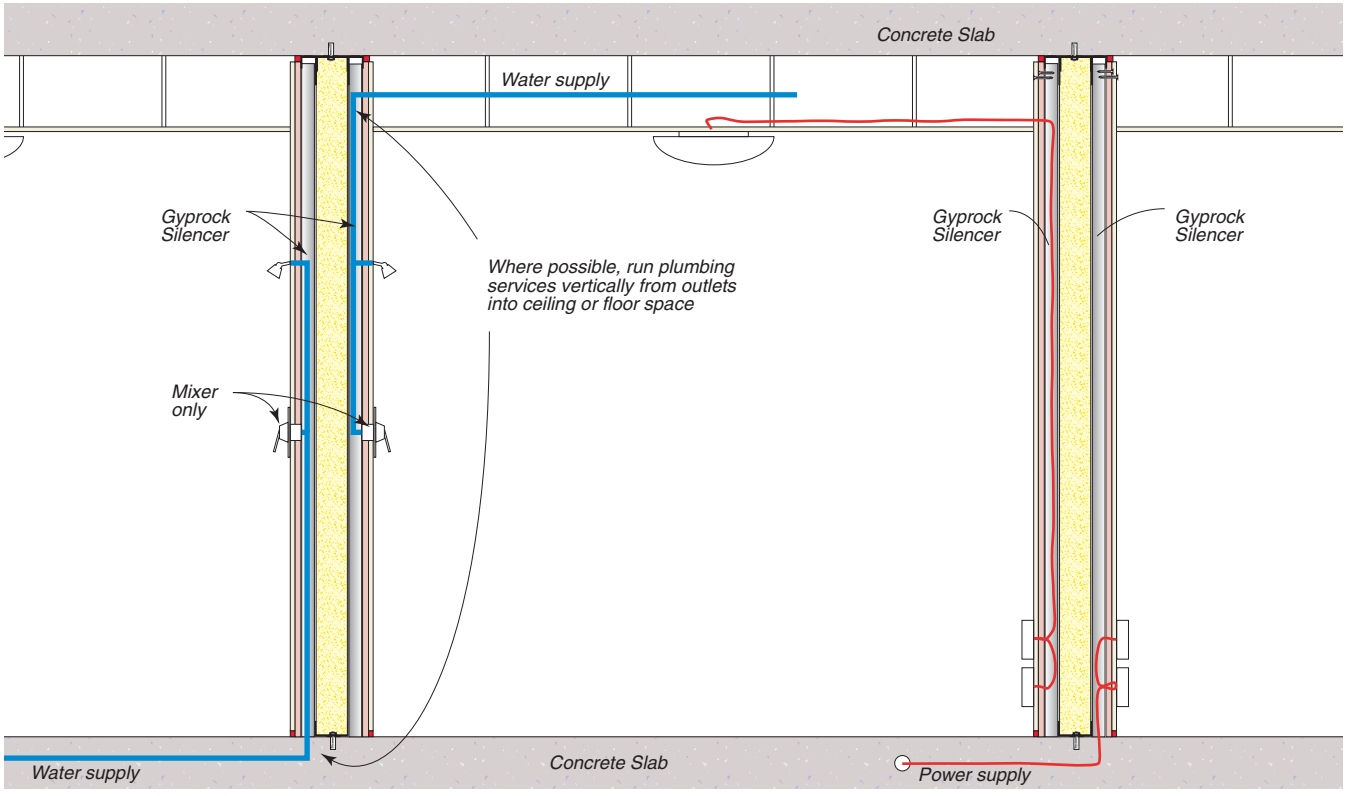
Fire Resistance

The Fire Resistance of the Gyprock SecurityWall systems and wall penetrations detailed in this manual have been evaluated for an FRL up to –/90/90 in CSIRO assessment FCO 2039. Additional systems for FRL –/120/120 are available. Please contact the CSR DesignLINK for assistance.

The SecurityWall systems, including plumbing penetrations, were tested at CSR Research NATA Laboratory. Mixer taps were positioned back to back within Gyprock Silencers without degradation to the fire resistance of the wall systems.

The fire resistance performance of systems is provided in the system tables. To achieve the stated performance, walls must be installed and caulked in accordance with details in this brochure, and the Gyprock Commercial Installation Guide, NºGYP548.

FIG 2. GOOD DESIGN PRACTICE FOR SERVICES



Wall Height & Stud Selection Tables

Table 4 and 5 provide maximum wall height information suitable for non-fire rated and fire rated non-loadbearing internal Gyprock SecurityWall systems that are to be designed for a Uniform Distributed Load (UDL) of 0.25kPa. Where wall systems include both panel and stud framing, the lower of the wall height values is to be used.

TABLE 4: MAXIMUM WALL HEIGHT FOR GYPROCK SECURITYWALL SYSTEMS (UDL = 0.25kPa)

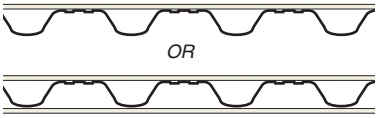
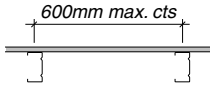
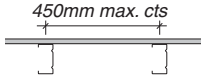
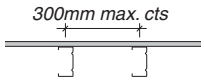
Wall Frame and Lining Configuration	Minimum Lining Thickness (mm)	Maximum Wall Height (m)
	Any 13mm Gyprock Plasterboard 10mm Supercheck	3.0
	Any 13mm Gyprock Fire Grade Plasterboard	5.2

TABLE 5: MAXIMUM WALL HEIGHT WITH RONDO LIPPED STEEL STUDS – NON-LOADBEARING WALLS – WALLS GENERALLY (LOAD = 0.25kPa)

Wall Frame and Lining Configuration	Stud Size (mm)	51		64			76			92			150	
	BMT (mm)	0.5	0.75	0.5	0.75	1.15	0.55	0.75	1.15	0.55	0.75	1.15	0.75	1.15
	Linings (mm)	Maximum Wall Height (m)												
Single Studs @ 600mm max. centres														
	10	2.32	2.60	2.72	3.13	3.53	3.20	3.58	4.05	3.61	4.13	4.69	5.33	6.81
	13	2.32	2.60	2.72	3.25	3.58	3.24	3.82	4.05	3.61	4.18	4.69	5.37	6.81
	16	2.32	2.60	2.75	3.28	3.59	3.25	3.87	4.05	3.61	4.20	4.69	5.37	6.81
Single Studs @ 450mm max. centres														
	10	2.52	2.86	2.93	3.41	3.87	3.50	3.91	4.45	4.05	4.52	5.15	6.51	7.40
	13	2.52	2.86	2.93	3.53	3.93	3.58	4.17	4.45	4.05	4.61	5.15	6.51	7.40
	16	2.52	2.86	3.02	3.56	3.95	3.60	4.22	4.45	4.05	4.63	5.15	6.51	7.40
Single Studs @ 300mm max. centres														
	10	2.52	2.86	2.95	3.41	3.87	3.50	3.91	4.45	4.05	4.52	5.15	6.63	7.59
	13	2.52	2.86	2.95	3.53	3.95	3.67	4.18	4.45	4.15	4.67	5.23	6.63	7.59
	16	2.52	2.86	3.07	3.57	3.97	3.71	4.24	4.45	4.18	4.71	5.25	6.63	7.59

NOTES:
Noggings in accordance with Table 6.
Deflection Limit is SPAN/240 to a maximum of 30mm, in accordance with BCA Specification C1.8.
Tabulated heights do not include axial loads (except self weight) or shelf loading.
Loadings: $P_{ultimate}$ = 0.375 kPa, $P_{service}$ = 0.25 kPa.
Walls are not for external applications.
All loadings in accordance with AS1170.
Walls analysed in accordance with AS4600.

TABLE 6: MINIMUM NUMBER OF NOGGINGS WITH RONDO LIPPED STEEL STUDS

Stud/Lining Configuration	Wall Height (m)	Nogging Rows equally spaced	Head Restraint Nogging
 Lining One Side	0.0 - 3.0	1	–
	3.0 - 6.0	2	✓
	6.0 - 8.0	3	✓

NOTES:
- Head restraint nogging is to be located at a maximum of 100mm from the top of the wall. Refer to Wall Head Details.
- Nogging is required behind butt joints in the first layer of fire rated vertical sheeting applications.
- Where nogging is required, it should be screw fixed or crimped to both flanges of each stud.

Plumbing Services

Water supply and waste water services generate noise in all wall cavities. Water supply noise is generated by turbulence and the formation of vapour bubbles at fittings and taps (known as cavitation). It is also generated by pressure variations within the pipe, due to sudden changes in water flow (known as water hammer). These forms of noise are transmitted almost entirely by structure borne vibration.

Waste water noise is generated by the flow of water in the pipes and is almost entirely airborne noise.

Water hammer in water supply pipes can be controlled or eliminated with proprietary water hammer arrestors. These are fitted to the pipe network and act as a shock absorber for the pressure variations in the pipe.

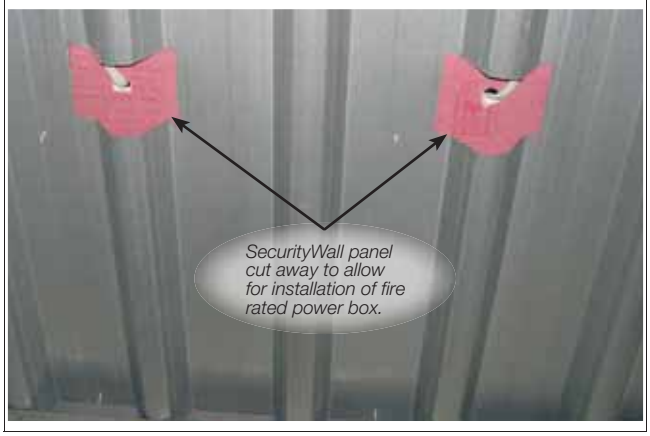
When water supply services are installed within the Gyprock Silencer, any cavitation and water hammer noise is reduced by isolating the noise source from the linings on the other side of the wall. The airborne noise that may leak into the silencer cavity around taps is also contained.

Electrical Services

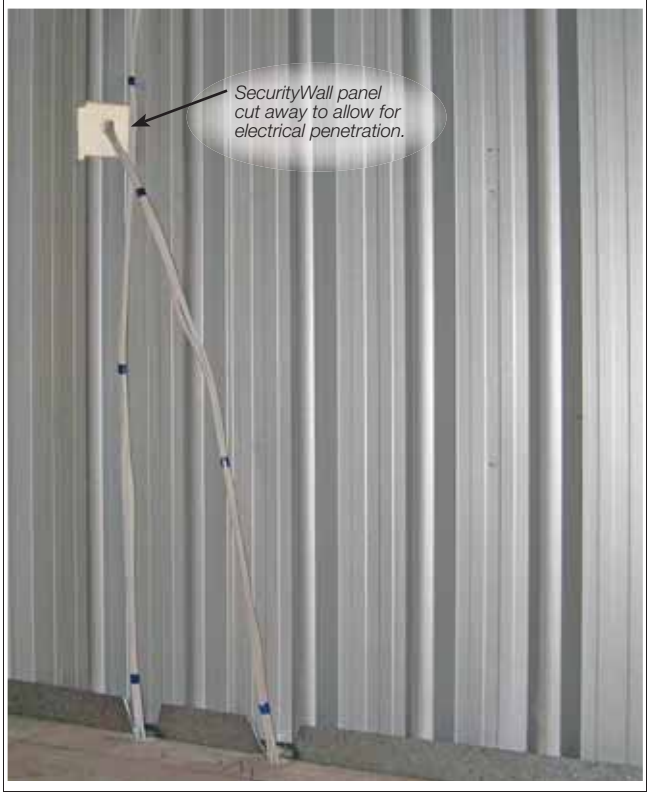
As an alternative to fire and acoustic rated power boxes, standard power points can be installed in Gyprock SecurityWall using the Gyprock Silencer. This reduces the labour intensive cutting and caulking requirements of many other systems.

The Fire Resistance of electrical penetrations were tested at the CSR Research NATA Laboratory. Standard power points were positioned back to back within Gyprock Silencers without degrading the fire resistance of the wall system up to –/120/120. (CSIRO assessment FCO 2039).

TYPICAL SECURITYWALL ELECTRICAL PENETRATION – FIRE RATED

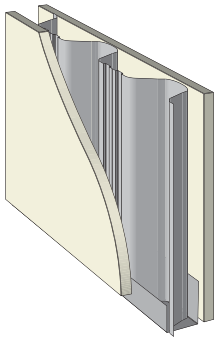


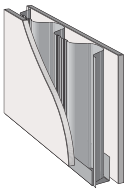
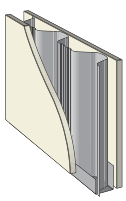
TYPICAL SECURITYWALL ELECTRICAL PENETRATION – NON-FIRE RATED



SYSTEM SELECTION

SecurityWall Panel 50 – Lined Both Sides

SYSTEM SPECIFICATION	TYPICAL LAYOUT (CSR 285a shown)	ACOUSTIC OPINION
• Lining material as per system table. • Gyprock SecurityWall Panel 50. • Lining material as per system table.		

FRL Report/Opinion	SYSTEM Nº	WALL LININGS	TRACK/PANEL	50
			CAVITY INFILL	R_w / R_w+C_{tr}
FRL – / – / –	**CSR 284** 	*Both Sides* • 1 x 10mm Gyprock Superchek Plasterboard.	(a) Nil	–
			WALL THICKNESS mm	71
FRL – / – / –	**CSR 285** 	*Both Sides* • 1 x 13mm Gyprock Standard Plasterboard.	(a) Nil	–
			WALL THICKNESS mm	77

SecurityWall Panel 50

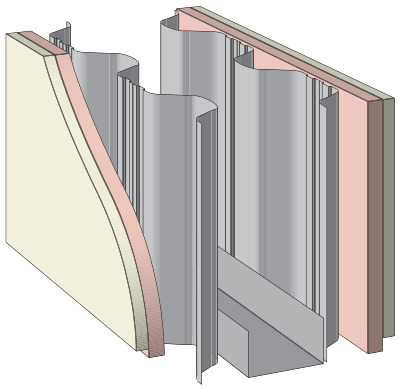
SYSTEM SPECIFICATION

- Lining material as per system table.
- Gyprock SecurityWall Panel 50.
- Cavity determined by track width.
- Gyprock SecurityWall Panel 50.
- Lining material as per system table.

NOTES:

^ SecurityWall Panel ribs offset to enable insulation to fit.

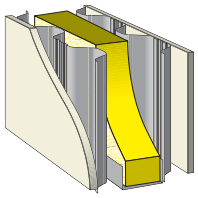
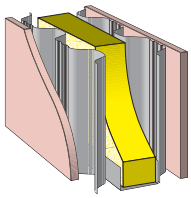
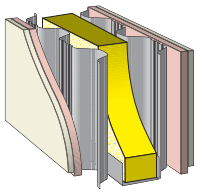
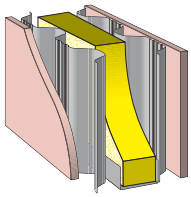
TYPICAL LAYOUT (CSR 295a shown)



ACOUSTIC OPINION

PKA-104

Discontinuous Construction

FRL Report/Opinion	SYSTEM Nº	WALL LININGS	TRACK WIDTH mm	28	51	64
			CAVITY INFILL	**R_w / R_w+C_{tr}**		
– / – / –	**CSR 289** 	*Both Sides* • 1 x 13mm Gyprock Standard Plasterboard.	(a) Nil	47/38	49/40	50/41
			(b) 50 GW Partition 11kg	54/45	56/47	57/48
			(c) 75 GW Partition 11kg	55/46^	57/48	58/49
			(d) TSB2/ASB2 Polyester	52/43	54/45	55/46
			WALL THICKNESS mm	154	177	190
– /60/60 FCO 2039	**CSR 294** 	*Both Sides* • 1 x 13mm Gyprock Fyrchek Plasterboard.	(a) Nil	48/40	50/42	51/43
			(b) 50 GW Partition 11kg	55/47	57/49	58/**50**
			(c) 75 GW Partition 11kg	56/48^	58/**50**	59/**51**
			(d) TSB2/ASB2 Polyester	53/45	55/47	56/48
			WALL THICKNESS mm	154	177	190
– /90/90 FCO 2039	**CSR 295** 	*Both Sides* • 1 x 16mm Gyprock Fyrchek Plasterboard. • 1 x 10mm Gyprock Standard Plasterboard.	(a) Nil	52/45	54/47	55/48
			(b) 50 GW Partition 11kg	59/**52**	61/**54**	62/**55**
			(c) 75 GW Partition 11kg	60/**53**^	62/**55**	63/**56**
			(d) TSB2/ASB2 Polyester	57/**50**	59/**52**	60/**53**
			WALL THICKNESS mm	180	203	216
– /90/90 FCO 2039	**CSR 297** 	*Both Sides* • 1 x 16mm Gyprock Fyrchek Plasterboard.	(a) Nil	49/41	51/43	52/44
			(b) 50 GW Partition 11kg	56/48	58/**50**	59/**51**
			(c) 75 GW Partition 11kg	57/49^	59/**51**	60/**52**
			(d) TSB2/ASB2 Polyester	54/46	56/48	57/49
			WALL THICKNESS mm	160	183	196

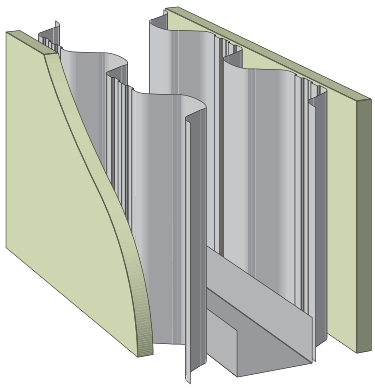
SecurityWall Panel 50 + EC08 Plasterboard

SYSTEM SPECIFICATION

- Lining material as per system table.
- Gyprock SecurityWall Panel 50.
- Cavity determined by track width.
- Gyprock SecurityWall Panel 50.
- Lining material as per system table.

NOTES:
^ SecurityWall Panel ribs offset to enable insulation to fit.

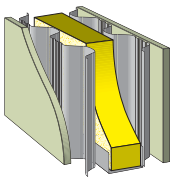
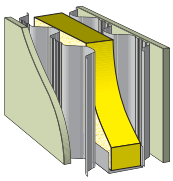
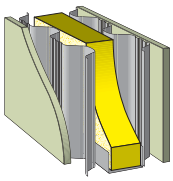
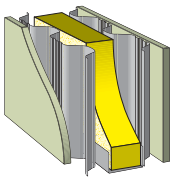
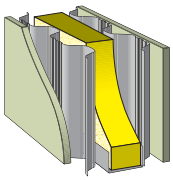
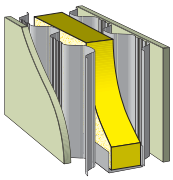
TYPICAL LAYOUT (CSR EC230a shown)



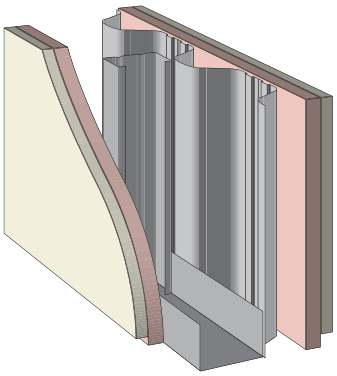
ACOUSTIC OPINION

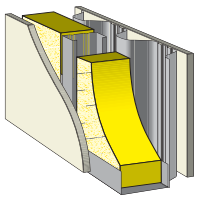
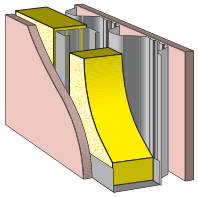
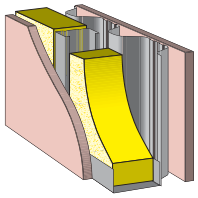
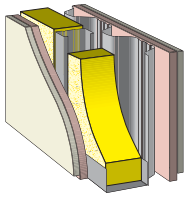
PKA-104

Discontinuous Construction

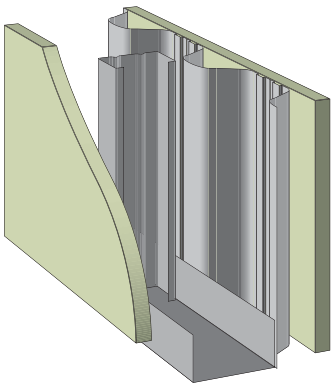
FRL Report/Opinion	SYSTEM N°	WALL LININGS	TRACK WIDTH mm	28	51	64
			CAVITY INFILL	R_w / R_w+C_{tr}		
– / – / –	**CSR EC228** 	*Both Sides* • 1 x 13mm Gyprock EC08 Partition.	(a) Nil	47/38	49/40	50/41
			(b) 50 GW Partition 11kg	54/45	56/47	57/48
			(c) 75 GW Partition 11kg	55/46^	57/48	58/49
			(d) TSB3/ASB3 Polyester	53/44	55/46	56/47
			WALL THICKNESS mm	154	177	190
– / – / –	**CSR EC229** 	*Both Sides* • 1 x 13mm Gyprock EC08 Aqua.	(a) Nil	47/38	49/40	50/41
			(b) 50 GW Partition 11kg	54/45	56/47	57/48
			(c) 75 GW Partition 11kg	55/46^	57/48	58/49
			(d) TSB3/ASB3 Polyester	53/44	55/46	56/47
			WALL THICKNESS mm	154	177	190
-/60/60 FAR 2039 & BWA 23035	**CSR EC230** 	*Both Sides* • 1 x 13mm Gyprock EC08 Fire.	(a) Nil	48/40	50/42	51/43
			(b) 50 GW Partition 11kg	55/47	57/49	58/**50**
			(c) 75 GW Partition 11kg	56/48^	58/**50**	59/**51**
			(d) TSB3/ASB3 Polyester	54/46	56/48	57/49
			WALL THICKNESS mm	154	177	190
-/60/60 FAR 2039 & BWA 23035	**CSR EC231** 	*Both Sides* • 1 x 13mm Gyprock EC08 Impact.	(a) Nil	49/41	51/43	52/44
			(b) 50 GW Partition 11kg	56/48	58/**50**	59/**51**
			(c) 75 GW Partition 11kg	57/49^	59/**51**	60/**52**
			(d) TSB3/ASB3 Polyester	55/47	57/49	58/**50**
			WALL THICKNESS mm	154	177	190
-/60/60 FAR 2039 & BWA 23035	**CSR EC232** 	*Both Sides* • 1 x 13mm Gyprock EC08 Impact MR.	(a) Nil	49/41	51/43	52/44
			(b) 50 GW Partition 11kg	56/48	58/**50**	59/**51**
			(c) 75 GW Partition 11kg	57/49^	59/**51**	60/**52**
			(d) TSB3/ASB3 Polyester	55/47	57/49	58/**50**
			WALL THICKNESS mm	154	177	190
-/60/60 FAR 2039 & BWA 23035	**CSR EC233** 	*Both Sides* • 1 x 13mm Gyprock EC08 Complete.	(a) Nil	49/41	51/43	52/44
			(b) 50 GW Partition 11kg	56/48	58/**50**	59/**51**
			(c) 75 GW Partition 11kg	57/49^	59/**51**	60/**52**
			(d) TSB3/ASB3 Polyester	55/47	57/49	58/**50**
			WALL THICKNESS mm	154	177	190

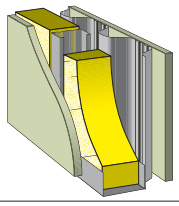
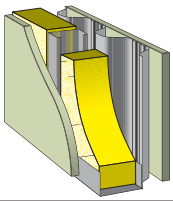
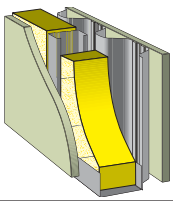
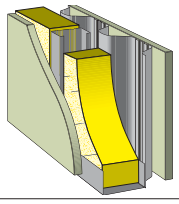
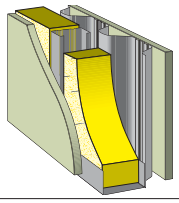
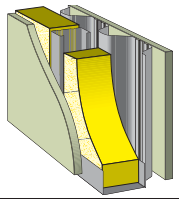
SecurityWall Panel 50 + Studs

SYSTEM SPECIFICATION	TYPICAL LAYOUT (CSR 296a shown)	ACOUSTIC OPINION
• Lining material as per system table. • Gyprock SecurityWall Panel 50. • Steel Studs at 600mm maximum centres. • Lining material as per system table.		PKA-104

FRL Report/Opinion	SYSTEM N°	WALL LININGS	STUD DEPTH mm	64	76	92
			CAVITY INFILL	R_w / R_w+C_{tr}		
– / – / –	CSR 299 	*Both Sides* • 1 x 13mm Gyprock Standard Plasterboard.	(a) Nil	44/35	45/36	46/37
			(b) 50 GW Partition 11kg	51/42	52/43	53/44
			(c) 75 GW Partition 11kg	52/43	53/44	54/45
			(d) TSB4/ASB4 Polyester	51/42	52/43	53/44
			WALL THICKNESS mm	140	152	168
– /60/60 FCO 2039	CSR 300 	*Both Sides* • 1 x 13mm Gyprock Fyrchek Plasterboard.	(a) Nil	46/38	47/39	48/40
			(b) 50 GW Partition 11kg	53/45	54/46	55/47
			(c) 75 GW Partition 11kg	54/46	55/47	56/48
			(d) TSB4/ASB4 Polyester	53/45	54/46	55/47
			WALL THICKNESS mm	140	152	168
– /90/90 FCO 2039	CSR298 	*Both Sides* • 1 x 16mm Gyprock Fyrchek Plasterboard.	(a) Nil	47/39	48/40	49/41
			(b) 50 GW Partition 11kg	54/46	55/47	56/48
			(c) 75 GW Partition 11kg	55/47	56/48	57/49
			(d) TSB4/ASB4 Polyester	54/46	55/47	56/48
			WALL THICKNESS mm	146	158	174
– /90/90 FCO 2039	CSR 296 	*Both Sides* • 1 x 16mm Gyprock Fyrchek Plasterboard. • 1 x 10mm Gyprock Standard Plasterboard.	(a) Nil	50/41	51/42	52/43
			(b) 50 GW Partition 11kg	57/48	58/49	59/**50**
			(c) 75 GW Partition 11kg	58/49	59/**50**	60/**51**
			(d) TSB4/ASB4 Polyester	57/48	58/49	59/**50**
			WALL THICKNESS mm	166	178	194

SecurityWall Panel 50 + Studs + EC08 Plasterboard

SYSTEM SPECIFICATION	TYPICAL LAYOUT (CSR EC234a shown)	ACOUSTIC OPINION
• Lining material as per system table. • Gyprock SecurityWall Panel 50. • Steel Studs at 600mm maximum centres. • Lining material as per system table.		PKA-104

FRL Report/Opinion	SYSTEM N°	WALL LININGS	STUD DEPTH mm	64	76	92
			CAVITY INFILL	R_w / R_w+C_{tr}		
– / – / –	CSR EC234 	*Both Sides* • 1 x 13mm Gyprock EC08 Partition.	(a) Nil	45/36	46/37	47/38
			(b) 50 GW Partition 11kg	52/43	53/44	54/45
			(c) 75 GW Partition 11kg	53/44	54/45	55/46
			(d) TSB4/ASB4 Polyester	52/43	53/44	54/45
			WALL THICKNESS mm	140	152	168
– / – / –	CSR EC235 	*Both Sides* • 1 x 13mm Gyprock EC08 Aqua.	(a) Nil	45/36	46/37	47/38
			(b) 50 GW Partition 11kg	52/43	53/44	54/45
			(c) 75 GW Partition 11kg	53/44	54/45	55/46
			(d) TSB4/ASB4 Polyester	52/43	53/44	54/45
			WALL THICKNESS mm	140	152	168
-/60/60 FAR 2039 & BWA 23035	CSR EC236 	*Both Sides* • 1 x 13mm Gyprock EC08 Fire.	(a) Nil	46/38	47/39	48/40
			(b) 50 GW Partition 11kg	53/45	54/46	55/47
			(c) 75 GW Partition 11kg	54/46	55/47	56/48
			(d) TSB4/ASB4 Polyester	53/45	54/46	55/47
			WALL THICKNESS mm	140	152	168
-/60/60 FAR 2039 & BWA 23035	CSR EC237 	*Both Sides* • 1 x 13mm Gyprock EC08 Impact.	(a) Nil	47/39	48/40	49/41
			(b) 50 GW Partition 11kg	54/46	55/47	56/48
			(c) 75 GW Partition 11kg	55/47	56/48	57/49
			(d) TSB4/ASB4 Polyester	54/46	55/47	56/48
			WALL THICKNESS mm	140	152	168
-/60/60 FAR 2039 & BWA 23035	CSR EC238 	*Both Sides* • 1 x 13mm Gyprock EC08 Impact MR.	(a) Nil	47/39	48/40	49/41
			(b) 50 GW Partition 11kg	54/46	55/47	56/48
			(c) 75 GW Partition 11kg	55/47	56/48	57/49
			(d) TSB4/ASB4 Polyester	54/46	55/47	56/48
			WALL THICKNESS mm	140	152	168
-/60/60 FAR 2039 & BWA 23035	CSR EC239 	*Both Sides* • 1 x 13mm Gyprock EC08 Complete.	(a) Nil	47/39	48/40	49/41
			(b) 50 GW Partition 11kg	54/46	55/47	56/48
			(c) 75 GW Partition 11kg	55/47	56/48	57/49
			(d) TSB4/ASB4 Polyester	54/46	55/47	56/48
			WALL THICKNESS mm	140	152	168

INSTALLATION

Track Fixings

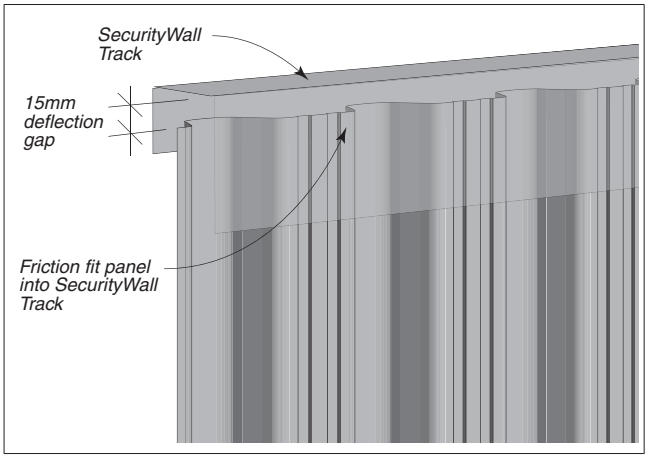
Track is to be fixed to the floor and soffit at 100mm maximum from ends and 600mm maximum centres between. Each track fastener is required to withstand a shear load of 0.75kN for walls with a design load of 0.25kPa.

When fixing to concrete or masonry, use power driven fasteners, expansion anchors (eg. Dynabolts), or easy drive masonry anchors.

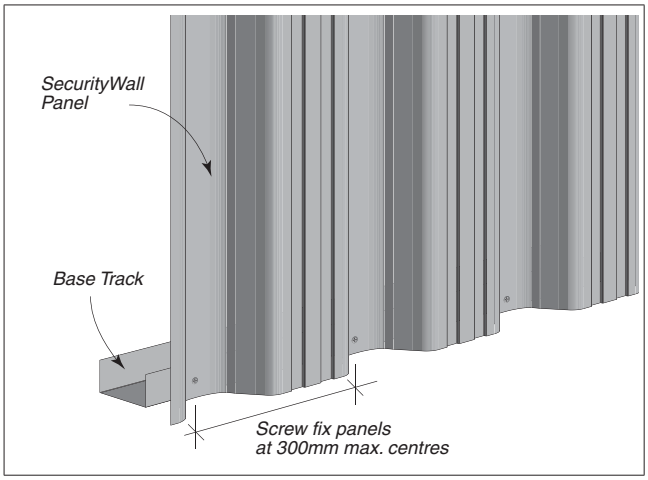
Installing SecurityWall Steel Panels

Install steel panels so that the larger flat portion of the ribs will be against the plasterboard.

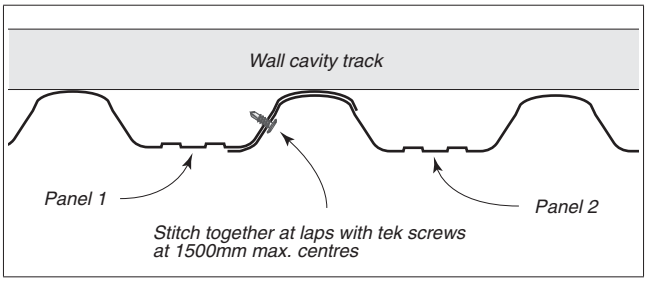
Fix head and base track to support structure with fixings to engineer's detail. Panels must be 15mm shorter than the floor to soffit height to allow for soffit deflection. Slide the top of the panel into the SecurityWall Track, then locate panel on the floor, leaving a 15mm gap at the top. Do NOT fix panels to the SecurityWall head track.

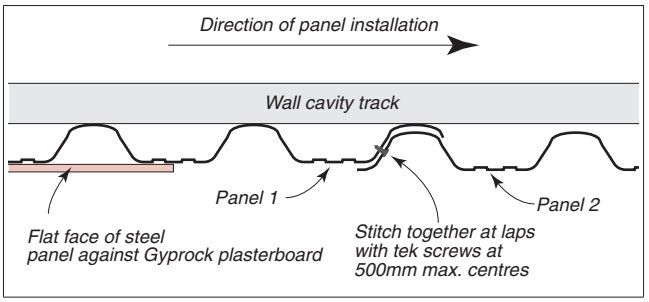


Panels must rest on the floor and be screw fixed to the base track or angle at 300mm maximum centres.



Ensure panels are vertical, then stitch together at the laps with tek screws at 1500mm maximum vertical centres.





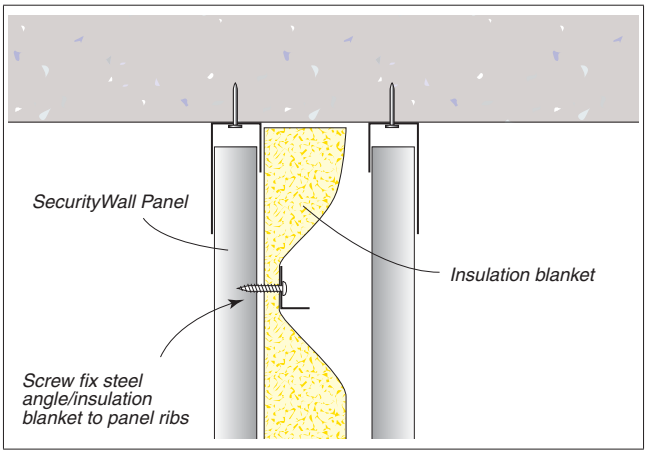
Cutting SecurityWall Panels

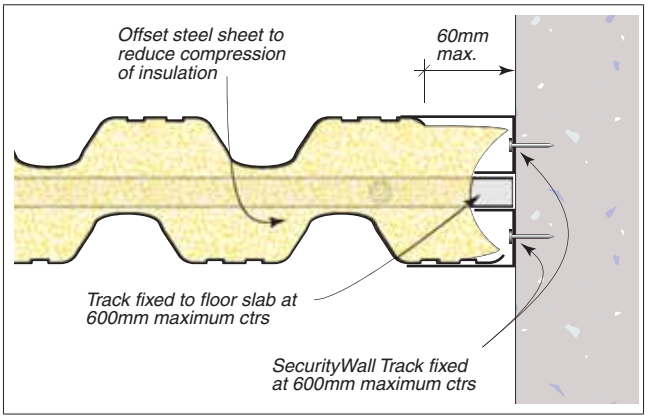
SecurityWall Panels may be cut using a power saw fitted with a steel cutting blade, or a power nibbler. Avoid the use of abrasive discs as they can cause burred edges.

Alternatively, sheets may be overlapped.

Installing Insulation

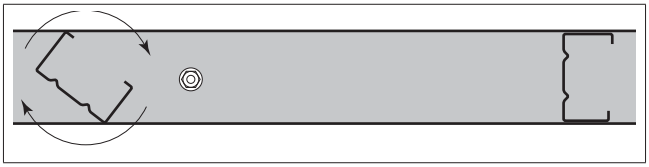
When insulation blanket is used in SecurityWall systems with a 51mm or greater cavity, the blanket may be fixed to the panel as illustrated. In systems with a 28mm cavity, it is necessary to offset panel ribs 40-60mm to reduce compression with some insulation choices. Refer to the following details and system tables for specific requirements.





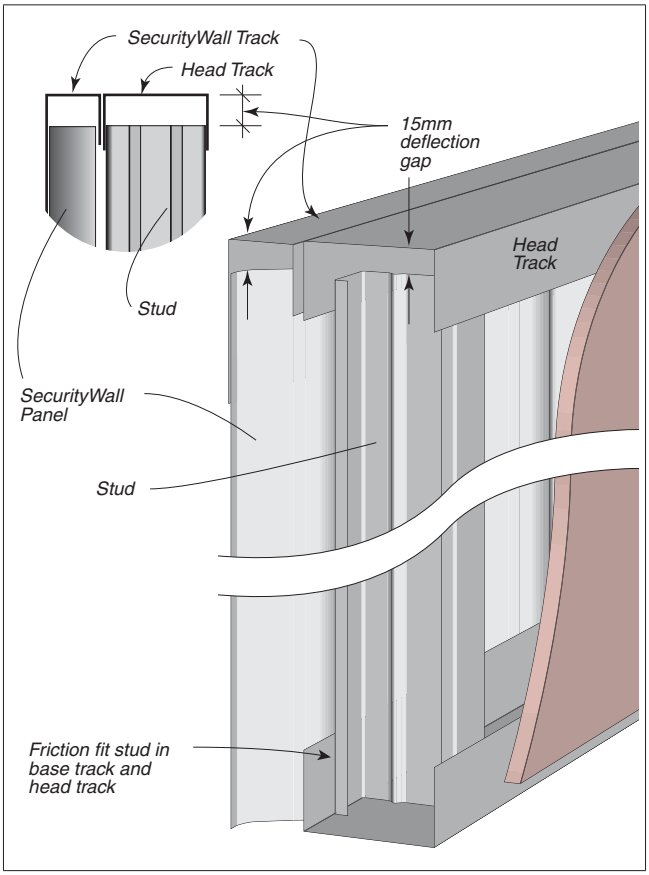
Installing Studs

- Accurately align floor and ceiling tracks according to the wall layout and fix in place.
- Place studs into the tracks and twist into position. The track flanges should provide a friction fit. Ensure studs are bottomed in floor track. Do not fix studs to top tracks.



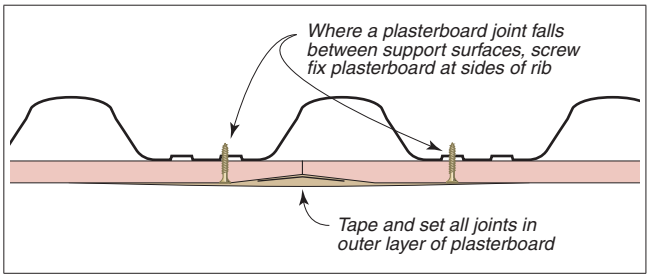
- Position a stud at each end of the wall, and where appropriate, fix its web to the adjacent wall structure.
- Position studs along the wall at 600mm maximum centres. The open sides of these studs should be facing the end of the wall from which sheeting will begin.
- Where nogging track is to be used, fit to studs before installing into tracks. Otherwise cut-to-length nogging can be fitted after stud installation.

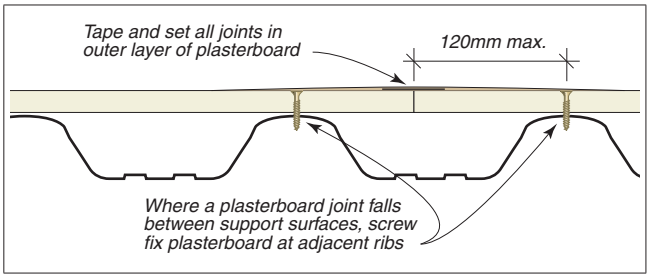
Refer to nogging requirements for Rondo C-stud framing.



Gyprock Plasterboard Fixing & Jointing

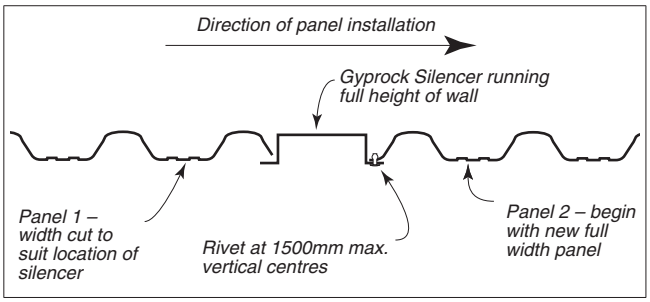
With SecurityWall Panel, the Gyprock plasterboard joints may fall between panel rib. In these cases, screw fix the plasterboard at the sides of the ribs. All joints in the outer layer of plasterboard must be taped and set in accordance with the Gyprock Commercial Installation Guide, NºGYP548.



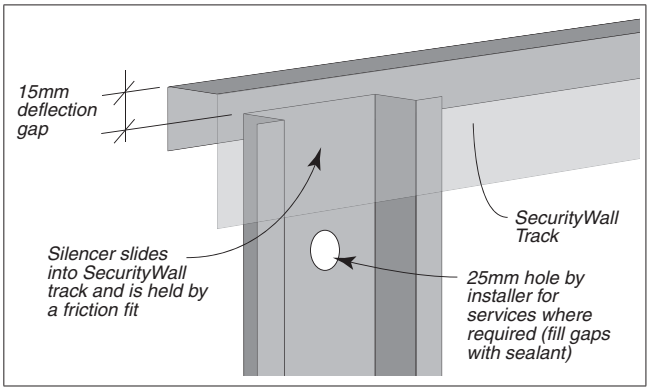


Gyprock Silencer Installation

Where necessary, cut panel width to suit the location of a silencer, install the silencer then continue the run with a new full width panel.



The Gyprock Silencer must be 15mm shorter than the floor to soffit height to allow for soffit deflection. Friction fit the top of the silencer inside the SecurityWall track, butt up to the adjoining panel, align vertically and fix silencer to base track or angle.



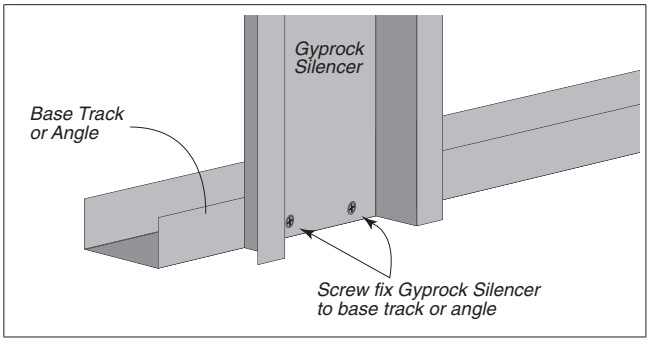
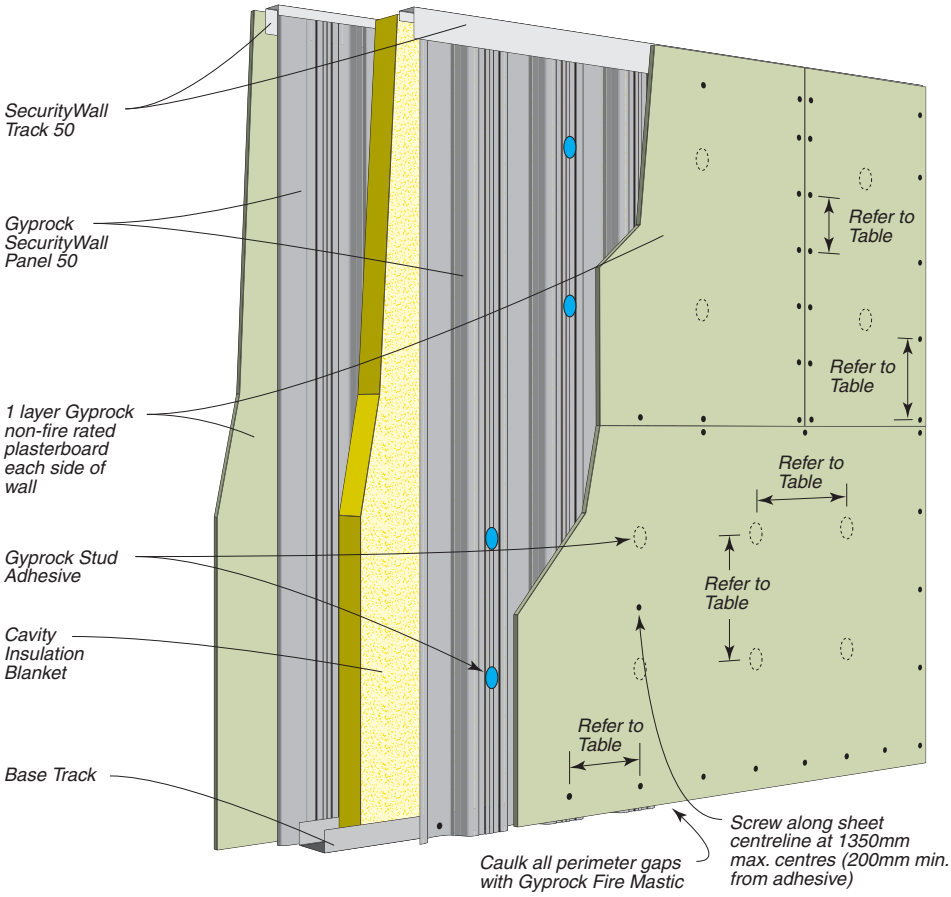


FIG 3: PLASTERBOARD FIXING TO SECURITYWALL PANEL 50 – SINGLE LAYER HORIZONTAL SHEETING – NON-FIRE RATED



Fixing Specifications	
Screws Adhesive	*Refer to Components*
Location	**Fixing & Spacing**
Recessed Edges	*Screws at corners and 216mm max. centres*
Field	*Rows of Adhesive Daubs at 450mm max. horizontal centres, 400mm max. vertical centres and 200mm min. from edges. Screw along centreline at 1350mm max.cts (200mm min. from adhesive)*
Butt Joints	*Screws at 200mm max. centres*
Corners & Openings	*Screws at 300mm max. centres*

Notes On Fixing

- Cut sheets as necessary to provide up to 10mm gap at the bottom and appropriate clearance at the top.
- Butt joints must be staggered by 600mm minimum in adjacent sheets and fixed as per the Fixing Specification table.
- Daubs of adhesive must be 200mm minimum from fastening points.
- All plasterboard fasteners must be placed into steel panel ridges. Place edge fasteners at 100mm maximum from top and bottom edges, but not through tracks, and elsewhere 10mm minimum from sheet edge.
- Details are also suitable for systems with linings on both sides of Securitywall Panel 50.

Fixing Procedure

For fastener specifications, refer to Components section.

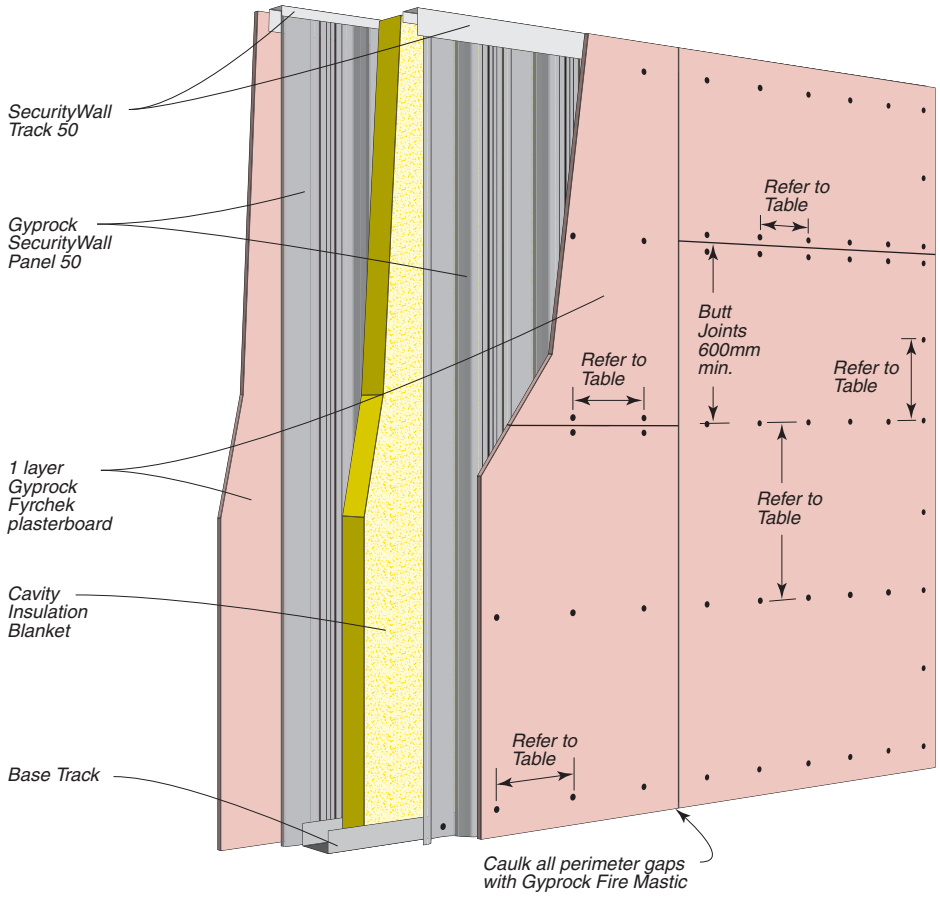
First Side

- Using a broadknife apply daubs of stud adhesive 25mm diameter x 15mm high to ridges of the SecurityWall Panel as per Fixing Specification table.
- Lay a 10mm high bead of sealant on the floor and bed the sheet during installation. Alternatively apply masking tape to the face of the SecurityWall Panel at floor level to provide backing for caulking later.
- Apply sheets horizontally (paper bound edges perpendicular to sheet ridges).
- Screw fix to panel ridges along one recessed edge, beginning at the centre of the sheet and working towards the ends. Fix as per Fixing Specification table.
- Press the sheet firmly against the panel and screw fix as per Fixing Specification table along the second recessed edge. Do not fix through top and bottom tracks.
- Press the sheet firmly against the panel, and screw fix to panel ridge along the centreline of the sheet as per Fixing Specification table.
- Screw fix butt joints, corners and around openings as per Fixing Specification table.
- Apply the next row of sheets, cutting the first sheet so that butt joints will be offset from adjacent sheets by a minimum of 600mm.

Second Side

- Ensure all electrical/plumbing/insulation materials have been installed before sheeting second side.
- Apply and fix sheets as detailed for the first side.

FIG 4: PLASTERBOARD FIXING TO SECURITYWALL PANEL 50 – SINGLE LAYER VERTICAL SHEETING – FIRE RATED OR NON-FIRE RATED



Fixing Specifications	
Screws	*Refer to Components*
1st Layer	**Fixing & Spacing**
Edges & Field	*Screws at 600mm max. vertical centres x 216mm max. horizontal centres*
Butt Joints	*Screws at 216mm max. centres*
Angles & Openings	*Screws at 300mm max. centres*

Notes On Fixing

- Cut sheets as necessary to provide up to 10mm gap at the bottom and appropriate clearance at the top.
- If butt joints are required, they must be staggered by 600mm minimum in adjacent sheets and fixed as per the Fixing Specification table.
- All plasterboard fasteners must be placed into steel panel ridges. Place edge fasteners at 100mm maximum from top and bottom edges, but not through tracks, and elsewhere 10mm minimum from sheet edge.

Fixing Procedure

For fastener specifications, refer to Components section.

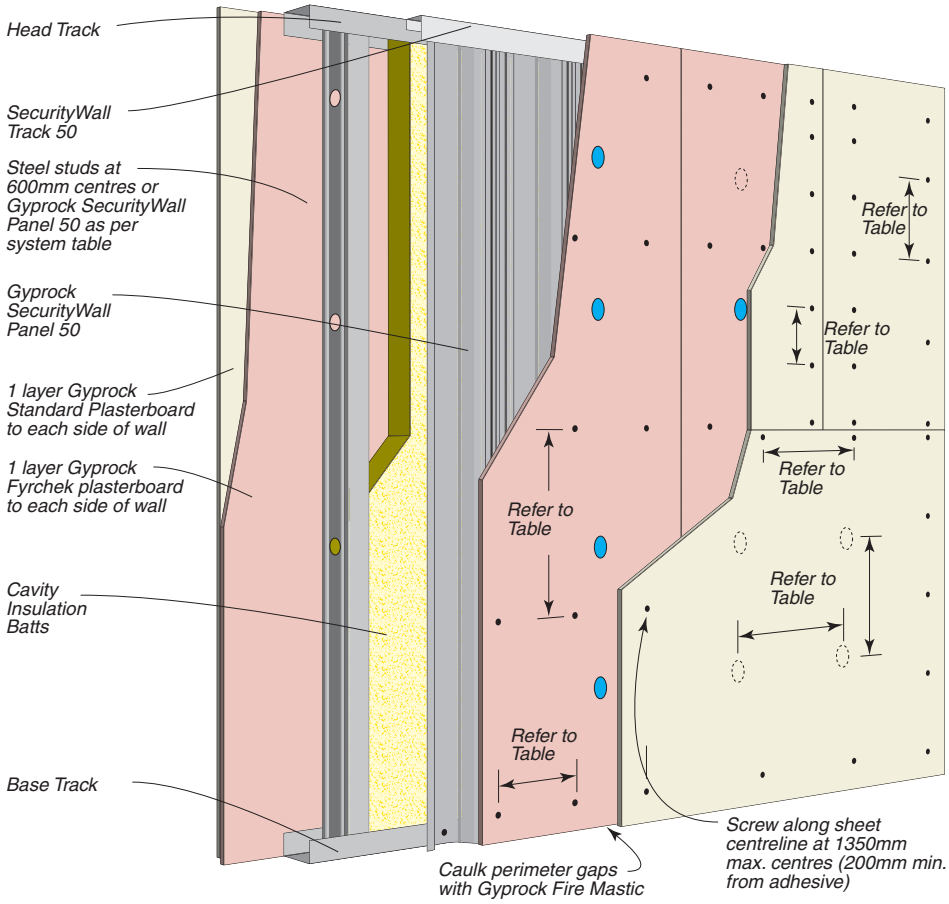
First Side

- Lay a 10mm high bead of Gyprock Fire Mastic on the floor and bed in lower sheet during installation. Alternatively apply masking tape to the face of the SecurityWall Panel at floor level to provide backing for caulking later.
- Apply sheets vertically (paper bound edges parallel with sheet ridges), leaving a 10mm max. gap between the bottom of the sheet and the floor.
- Press the sheet firmly against the framing and screw fix one recessed edge as per the Fixing Specification table.
- Press the sheet firmly against the framing and screw fix the field and edges of the sheet as per the Fixing Specification table, working across the sheet away from the fixed edge.
- Screw fix butt joints, corners and around openings as per the Fixing Specification table.

Second Side

- Ensure all electrical/plumbing/insulation materials have been installed before sheeting second side.
- Screw fix second side as per the first side and in accordance with the Fixing Specification table.

FIG 5: PLASTERBOARD FIXING TO SECURITYWALL PANEL 50 – TWO LAYER – 1ST LAYER VERTICAL + 2ND LAYER HORIZONTAL SHEETING – FIRE RATED



Fixing Specifications	
1st Layer *2nd Layer*	*Refer to Components*
1st Layer Location	**Fixing & Spacing**
Edges & Field	*Screws at 300mm max. vertical centres to all stud profiles* *OR* *Screws at 600mm max. vertical centres and 216mm max. horizontal centres to steel sheeting*
2nd Layer Location	**Fixing & Spacing**
Recessed Edges	*Screws at corners and 433mm max. centres*
Field	*Rows of Adhesive Daubs at 450mm max. horizontal centres, 400mm max. vertical centres and 200mm min. from fasteners.* *Screw along centreline at 1350mm max.cts (200mm min. from adhesive)*
Butt Joints	*Screws at 200mm max. centres*
Angles & Openings	*Screws at 300mm max. centres*

Notes On Fixing

- Cut sheets as necessary to provide up to 10mm gap at the bottom and appropriate clearance at the top.
- If butt joints are required, they must be staggered by 600mm minimum in adjacent sheets and fixed as per the Fixing Specification table. First layer butt joints in stud side must be backed by nogging.
- All plasterboard fasteners must be placed into steel panel ridges. Place edge fasteners at 100mm maximum from top and bottom edges, but not through tracks, and elsewhere 10mm minimum from sheet edge.

Fixing Procedure

For fastener specifications, refer to Components section.

First Side – First Layer

- Lay a 10mm high bead of Gyprock Fire Mastic on the floor and bed in lower sheet during installation. Alternatively apply masking tape to the face of the SecurityWall Panel at floor level to provide backing for caulking later.
- Apply sheets vertically (paper bound edges parallel with sheet ridges), leaving a 10mm max. gap between the bottom of the sheet and the floor.
- Press the sheet firmly against the framing and screw fix one recessed edge as per the Fixing Specification table.
- Press the sheet firmly against the framing and screw fix the field and edges of the sheet as per the Fixing Specification table, working across the sheet away from the fixed edge.
- Screw fix at all butt joints, corners and around openings as per the Fixing Specification table.

First Side –Second Layer

- Using a broadknife apply daubs of stud adhesive 25mm diameter x 15mm high to first layer plasterboard. Apply rows of adhesive daubs as per Fixing Specification table.
- Apply sheets horizontally (paper bound edges perpendicular to sheet ridges), leaving a 6mm maximum gap between the bottom of the sheet and the floor, and with butt joints centred on a panel ridge.
- Screw fix to panel ridges along one recessed edge, beginning at the centre of the sheet and working towards the ends. Fix as per Fixing Specification table.
- Press the sheet firmly against the wall and screw fix as per Fixing Specification table along the second recessed edge. Do not fix through top and bottom tracks.
- Press the sheet firmly against the wall, and screw fix to panel ridge along the centreline of the sheet as per Fixing Specification table.
- Screw fix butt joints, corners and around openings as per Fixing Specification table.
- Apply the next row of sheets, cutting the first sheet so that butt joints will be offset from adjacent sheets by a minimum of 600mm.

Second Side

- Ensure all electrical/plumbing/insulation materials have been installed before sheeting second side.
- Screw fix second side in accordance with the Fixing Specification table above.

JUNCTIONS & PENETRATIONS

FIG 6: HEAD DETAIL SECURITYWALL PANEL BOTH SIDES

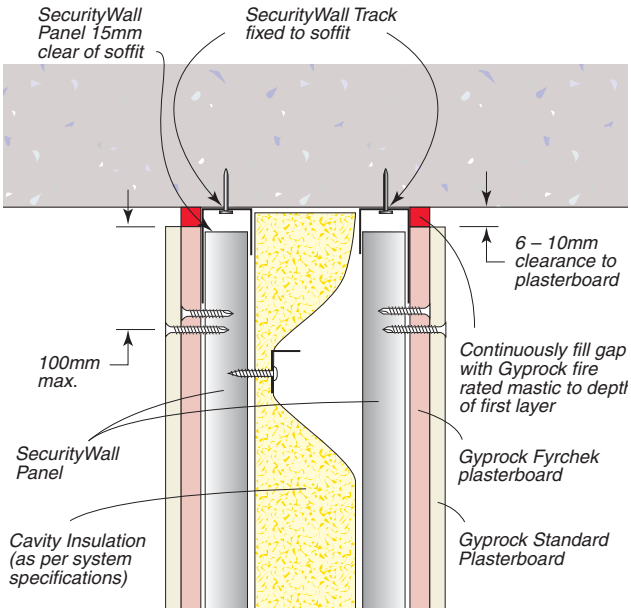


FIG 7: BASE DETAIL SECURITYWALL PANEL BOTH SIDES

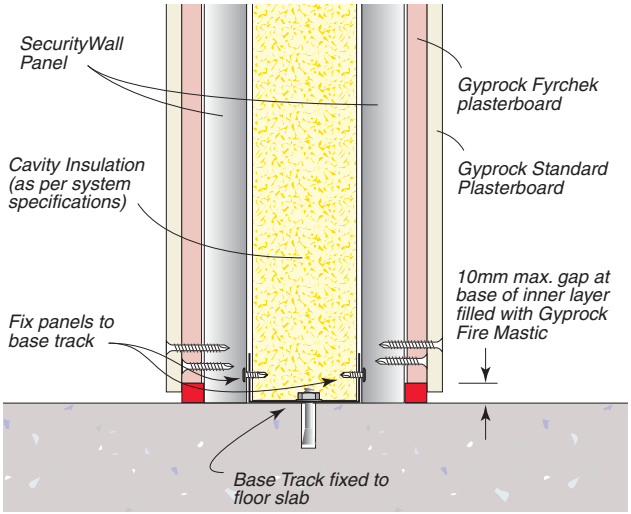


FIG 8: WALL JUNCTION DETAIL AND OFFSET OF STEEL SHEETING WHEN CAVITY GAP IS 28mm

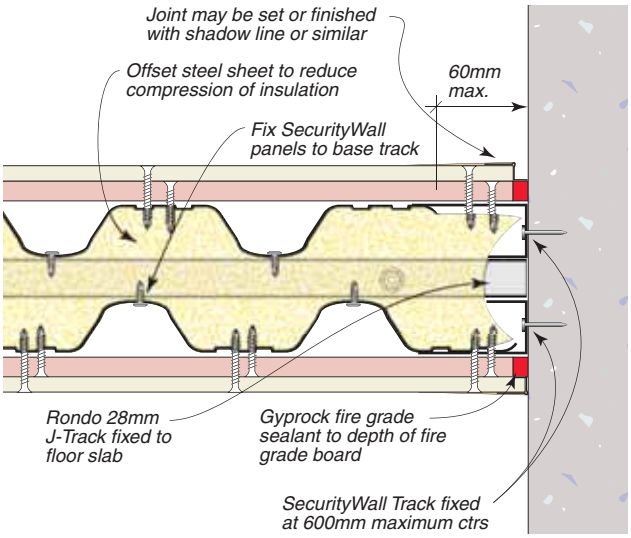


FIG 9: HEAD DETAIL SECURITYWALL PANEL SIDE 1 – STUD FRAMING SIDE 2

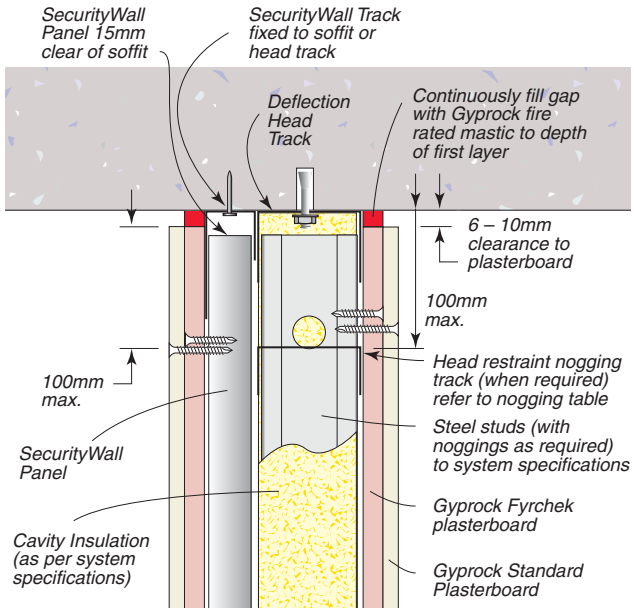


FIG 10: BASE DETAIL SECURITYWALL PANEL SIDE 1 – STUD FRAMING SIDE 2

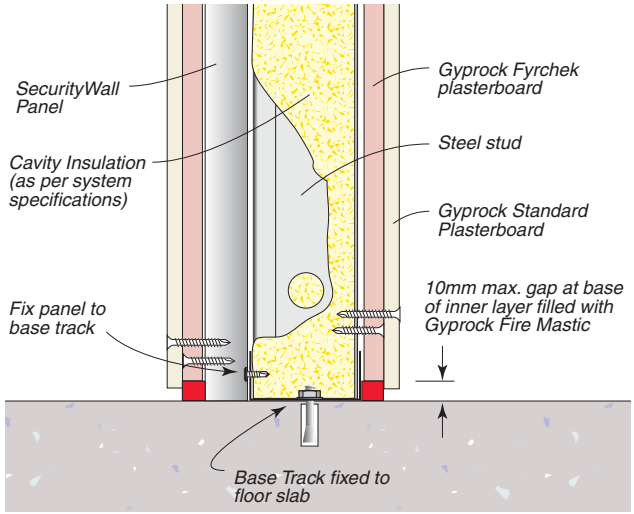


FIG 11: WALL JUNCTION DETAIL SECURITYWALL TO MASONRY WALL.

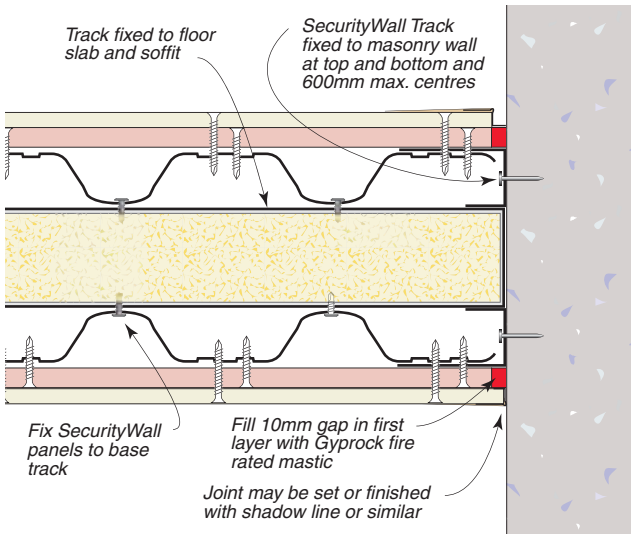


FIG 12: JUNCTION DETAIL SECURITYWALL TO SECURITY WALL

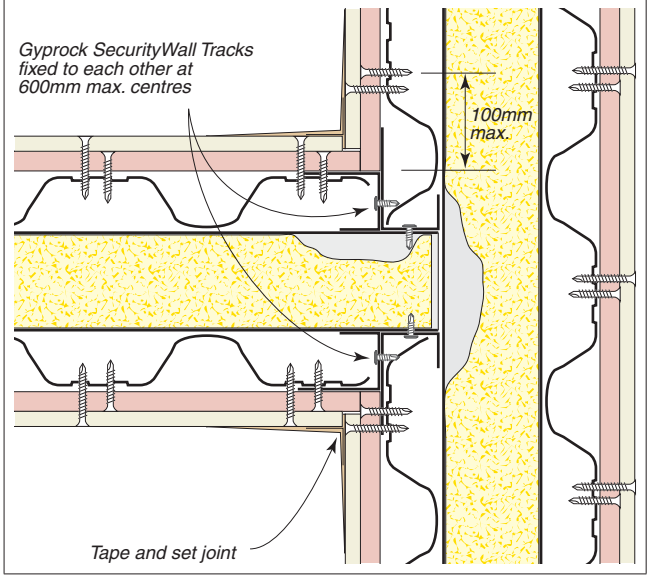


FIG 13: JUNCTION DETAIL SECURITYWALL TO SECURITY WALL

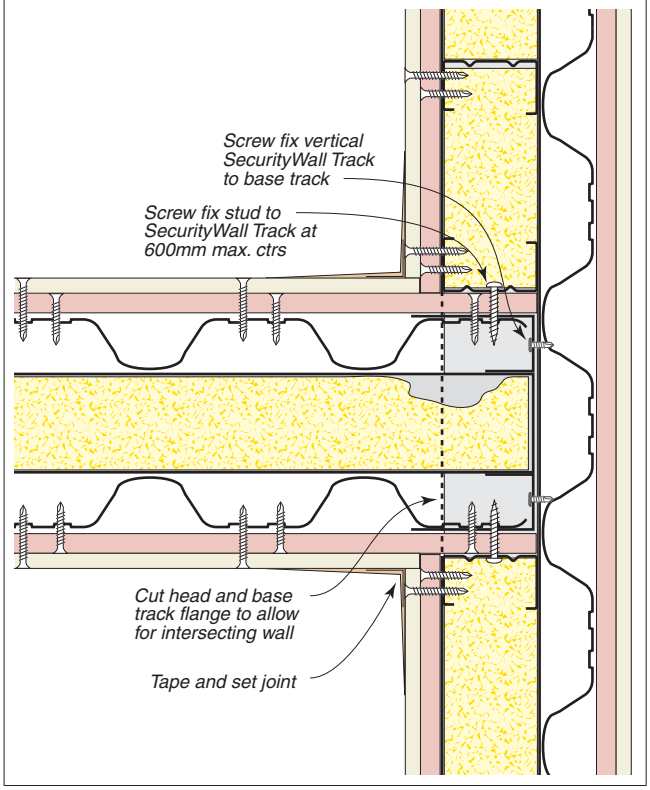


FIG 14: CORNER DETAIL SECURITYWALL TO SECURITY WALL

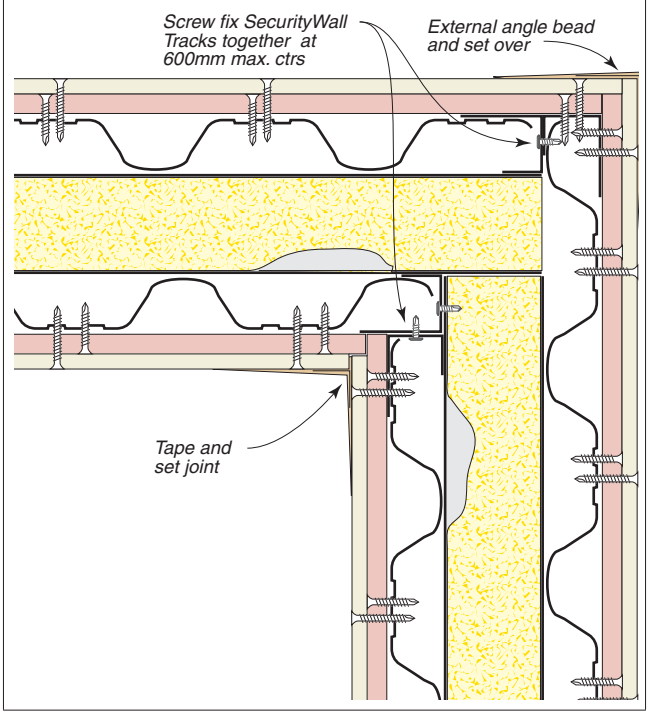


FIG 15: CONTROL JOINT

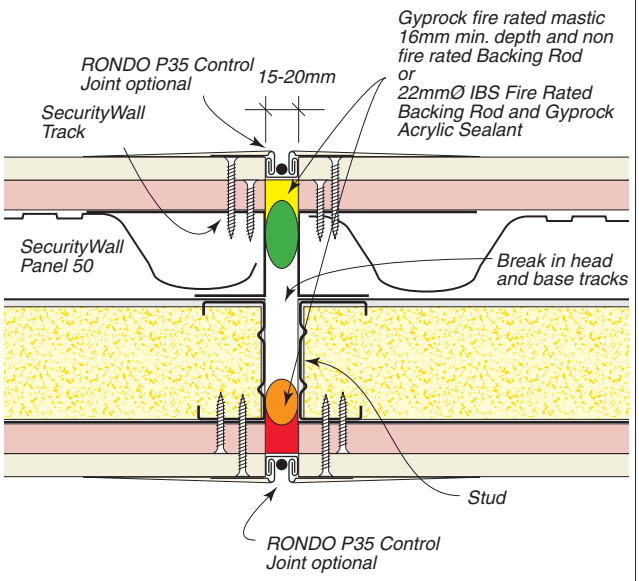


FIG 16: TYPICAL ELECTRICAL SERVICES INSTALLATION WITH GYPROCK SILENCER – 1 LAYER – FIRE RATED OR NON-FIRE RATED

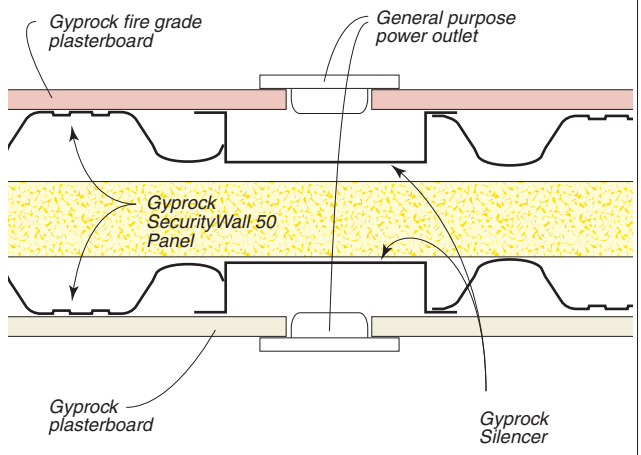


FIG 17: TYPICAL ELECTRICAL SERVICES INSTALLATION WITH GYPROCK SILENCER – 2 LAYER – FIRE RATED

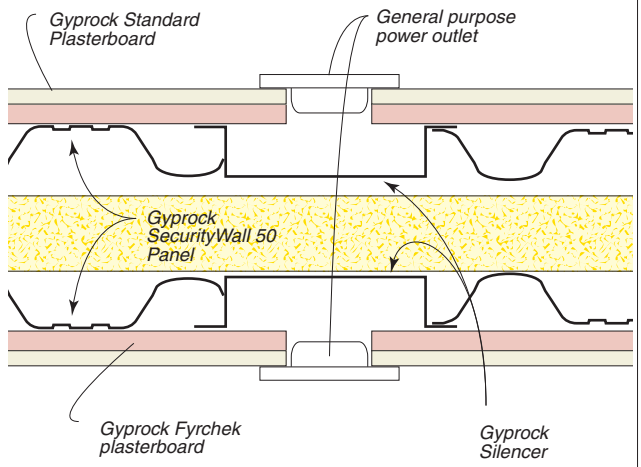


FIG 18: TYPICAL PLUMBING SERVICES INSTALLATION WITH GYPROCK SILENCER – 1 LAYER – FIRE RATED OR NON-FIRE RATED

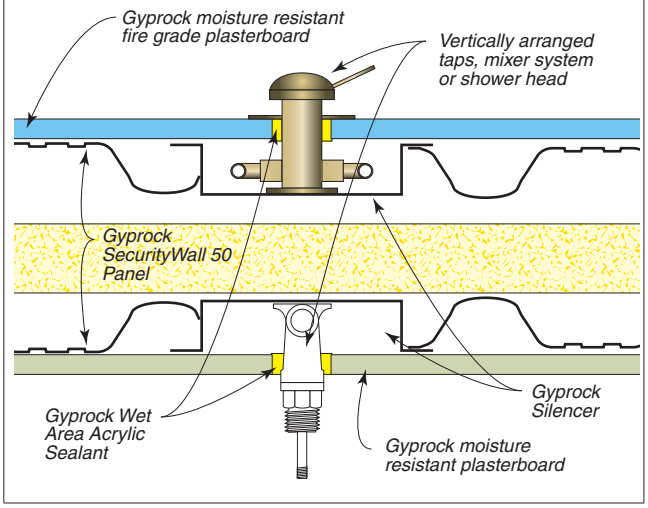


FIG 19: TYPICAL PLUMBING SERVICES INSTALLATION WITH GYPROCK SILENCER – 2 LAYER – FIRE RATED

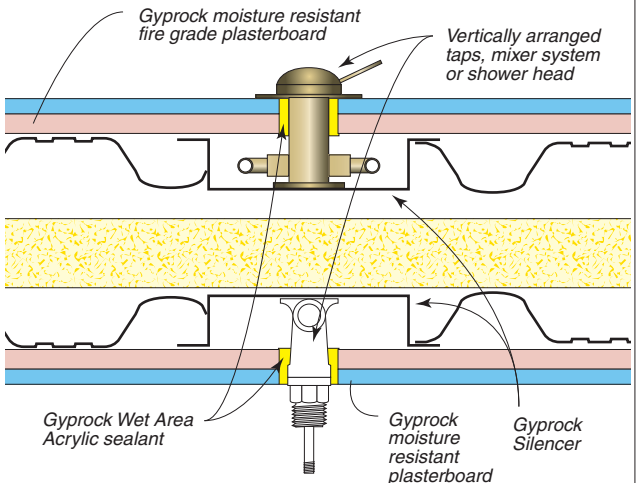
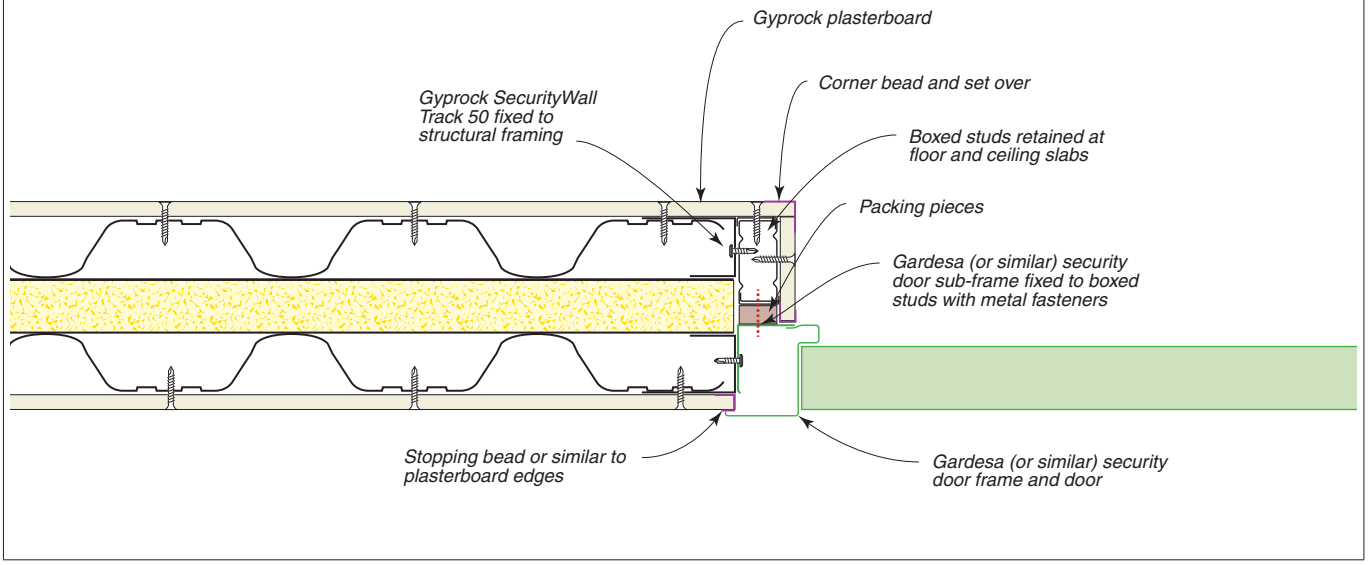


FIG 20: TYPICAL SECURITY DOOR INSTALLATION – NON-FIRE RATED SECURITYWALL



Health & Safety

Information on any known health risks of our products and how to handle them safely is on their package and/or the documentation accompanying them.

Additional information is listed in the Safety Data sheet. To obtain a copy, telephone 1300 306 556 or visit www.gyprock.com.au.

Warranty

Gyprock products are designed to achieve optimal performance when part of a CSR integrated system.

CSR Building Products Limited warrants its Australian made Gyprock products to remain free of defects in material and manufacture for the usual lifetime of the product (25 years).

CSR warrants its International Alliance Gyprock products to remain free of defects in material and manufacture for 7 years.

For details on our product warranty, please visit www.gyprock.com.au, or contact us on 1300 306 556.

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Everything else is just plasterboard

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CSR Building Products ABN 55 008 631 356

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