GYPROCK®
SAINT-GOBAIN

THE RED BOOK™

APRIL 2026

ENVEO SYSTEMS

SUPPLEMENTARY
RED BOOK SYSTEMS

CSR

CSR ENVEO - COMPLETE FACADE SOLUTION

INTRODUCTION

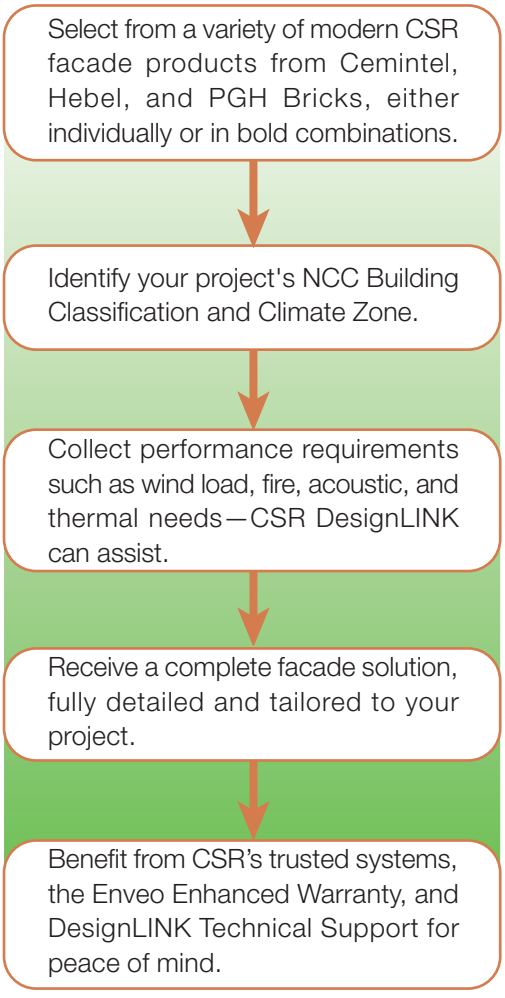
CSR Enveo is the simple way to specify a complete, fully compliant, high performance façade system that maximises floor space – all backed by the confidence and support of a single, trusted brand.

Enveo brings the best of CSR's façade solutions into one central platform, intelligently organised to match the design and performance specification of your project, in a narrower footprint than double-stud walls.

Choose from a range of on-trend external Cemintel, Hebel and PGH Bricks cladding options, select your performance requirements, and you will be presented with certified, compliant and high-performing external wall systems, each covering every element from the external façade to the internal wall lining.

With Enveo, you gain direct access to expert technical support, detailed specification documentation, estimation and guidance on optimising your project's sustainability outcomes. And, because Enveo exclusively includes CSR products, your chosen solution will be backed by the CSR Enveo Enhanced Warranty.

FIG ENV 1: GENERAL STEPS FOR DETERMINATION OF ENERGY EFFICIENCY REQUIREMENTS



ENVEO SYSTEM TABLES

This document should be considered as additional information and should be read in conjunction with the relevant system installation manual for Cemintel (available for download from www.cemintel.com.au), Hebel High Rise Facades (available for download from www.hebel.com.au) or AS3700 for PGH Bricks, with Book 2 Residential Installation Guide and Book 3 Commercial & Multi-Residential Installation Guide (available for download from www.gyprock.com.au).

The system tables in this guide are specific to the ENVEO Facade solution and are not published in THE RED BOOK (December 2025).

System Table Assumptions

Wall thicknesses in the Enveo system tables include a flexible weather-resistive barrier with a thickness of 1 mm. To determine the total wall thickness when selecting Cemintel RAB add 5 mm, or when selecting Gyprock Glasroc X add 11.5 mm.

SPECIFYING HIGH PERFORMANCE FACADES WITH ENVEO

After selecting façade materials that deliver your aesthetic design intent, CSR Enveo simplifies the decision making required to deliver the performance levels required for your specific project.

Structural Adequacy

Information necessary to complete structural design for Enveo is contained in AS/NZS 4600 – Cold-Formed Steel Structures and Rondo & CSR Design & Install guides. Wind pressures applicable to the project will guide the spacing of steel members and the selection of the weather-resistive barrier. This also affects the thermal and acoustic performance of the system.

Fire Resistance

Every component of Enveo meets the non-combustibility requirement of the NCC.

Dependent on the NCC Building Classification, Enveo Façade Systems are specified in The Red Book system tables with Fire Resistance Levels up to -/120/120.

Construction in Bushfire Prone Areas

The Enveo solution can cover your Bushfire Attack Level ratings needs when constructed in accordance with AS 3959.

TABLE ENV 1: Achievable BAL Rating for ENVEO Systems

Facade Material	On the Express wall Fixing System			Hebel PowerPanel	PGH Clay Bricks
	Cemintel Barestone	Cemintel Express Panel	Cemintel Surround		
BAL:	Up to BAL–40	Up to BAL–40	Up to BAL–29	Up to BAL–FZ	Up to BAL–FZ

Weatherproofing

The Enveo solution resists penetration of wind driven rain using a pressure-equalised drainage and ventilation cavity behind the cladding material which screens the rain. Pressure-equalisation is created by a Weather-Resistive Barrier (WRB), located on the building-side of the cavity. As well as protecting against weather, the WRB stops unwanted air leaks, controls condensation and mould, and can enable faster construction by allowing internal works to commence prior to completion of the external cladding.

Condensation Management

WRB's affect moisture vapour flow through the wall, which can influence condensation and mould. This varies in the many different climates across Australia where humidity can be higher outside, higher inside, or changing throughout the year.

Enveo can be tailored to your project's climate and wind loads by selecting a WRB based on four criteria.

TABLE ENV 2: Weather Resistant Barrier Comparison

Product	Bradford Thermoseal	Bradford Enviroseal CW-IT	Cemintel RAB	Glasroc X
Type	Flexible Wrap Class 2 Vapour Barrier	Flexible Wrap Class 4 Vapour Permeable	Rigid Board Class 3 Vapour Permeable	Rigid Board Class 4 Vapour Permeable
Thickness (mm)	<1	<1	6	12.5
Suitable NCC Climate Zones	Zones 1- 3	Zones 2-8	Zones 1-5	All Zones#
Max Wind Pressure* (+/- kPa)	2.5	2.5	7	6
Direct Weather Exposure	Up to 6 weeks	Up to 6 weeks	Panel Up to 6 months Tape up to 6 weeks	Up to 6 months
Additional features	Reflective surface contributes to wall R-value	–	Certified contribution to structural bracing up to 9.6kN/m	Score-and-snap cutting. Fire rating up to FRL -/90/90 on steel and 60/60/60 on timber frames as part of a fire rated wall system

* As part of a facade with a pressure equalised cavity system.
# Add a Vapour Barrier if used in Climate Zone 1

Thermal enhancement

NCC Volume 1 requires total system R-values to include losses due to thermal bridging. Enveo provides two options for enhancing the thermal performance of the exterior wall by mitigating thermal bridges -

1 **Thermally Enhanced – External Insulation**: mitigates thermal bridging to boost R-value with minimal increase in wall thickness.

2 **Thermally Enhanced Plus – Internal Insulation:** Maximises R-value with better thermal performance from a narrower footprint than traditional double-stud.

These wall designs are described in the following sections, including variations for cladding type, FRL and acoustic performance.

Further information on the pathways for determining energy efficiency requirements, material and system R-values, thermal bridging and the modelling assumptions used to derive the stated R-values are contained in The Red Book 1, section on Thermally Enhanced Systems Including Thermal Bridging Considerations.

Interior Lining selection

Gyprock interior linings contribute to fire safety, acoustics, durability, indoor air quality, and overall comfort. Enveo enhances this process by providing a common base wall platform from which you can tailor these characteristics without redesigning the entire system. This flexibility allows customisation to project-specific requirements, whether for compliance, performance, or aesthetics, simply by selecting the right lining.

To enhance the performance of your walls whilst maintaining the performance values in Enveo systems, the following interior lining substitutions are allowed.

TABLE ENV 3: Gyprock Plasterboard Substitution

	Enhanced feature(s) required			
Interior Lining Specified in Enveo Systems	**Sound resistance & Impact resistance**	**Moisture resistance**	**Moisture resistance, Mould resistance & Impact resistance**	**Moisture resistance, Mould resistance & higher impact resistance**
Standard 13mm	Impactchek 13mm	Aquachek 13 mm	EC08 Complete 13mm	EC08 Extreme 13mm
Fyrchek 13mm	Impactchek 13mm	Fyrchek MR 13mm	EC08 Complete 13mm	EC08 Extreme 13mm
Fyrchek 16mm	EC08 Complete 16mm	Fyrchek MR 16mm	EC08 Complete 16mm	2 Layers EC08 Extreme 13mm

TABLE ENV 4: SPECIFIED INSULATION AND ABBREVIATIONS
(Abbreviated names have been used in system tables).

Product	Abbreviation	R – Value (m^2 K/W)[a]	Non-Combustible
25mm Bradford Acoustigard (24kg/m^3)	25 Acoustigard 24kg	0.65	✔
75mm Bradford Acoustigard (24kg/m^3)	75 Acoustigard 24kg	2.1	✔
90mm Bradford Acoustigard (24kg/m^3)	90 Acoustigard R2.5	2.5	✔
25mm Bradford Fibertex 450 Stone Wool (80kg/m^3)	25 Stone Wool 80	0.72	✔

[a] R-Value are determined in accordance with AS/NZS 4859.1 and will remain the same unless the product is compressed or altered. The total R-Value of the system is dependent on installation and environmental conditions.

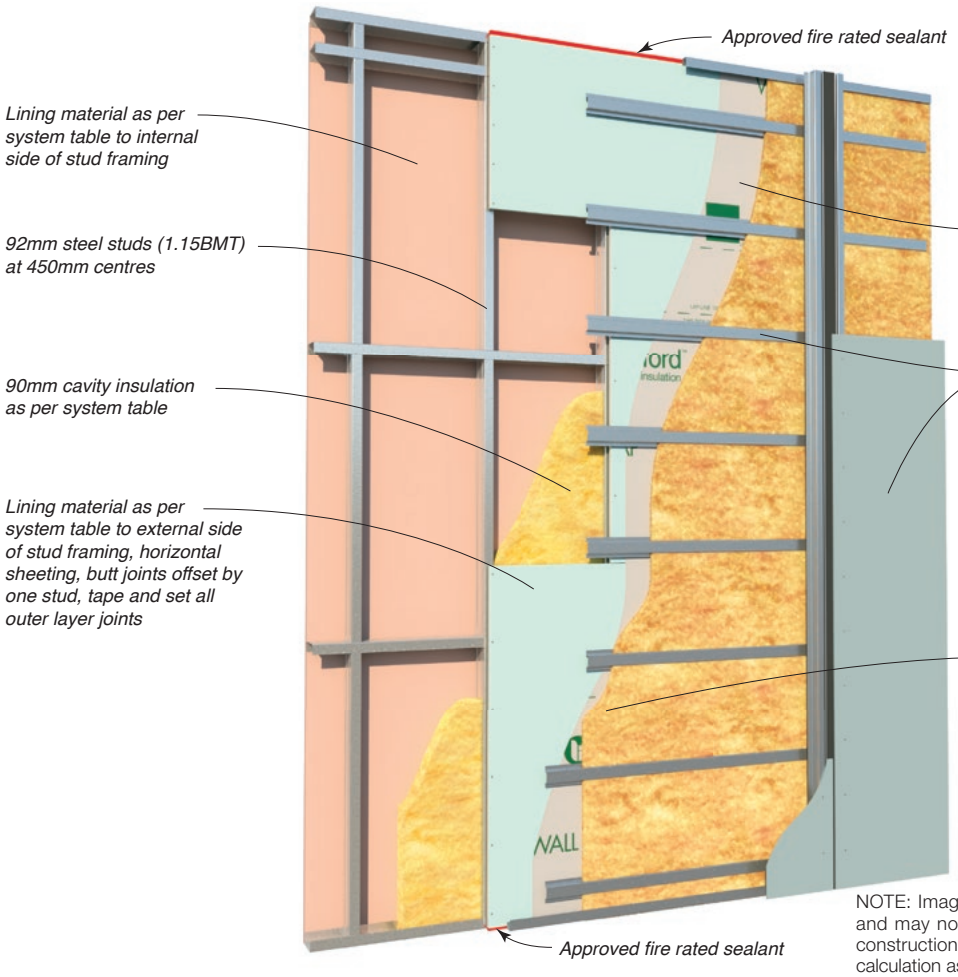
PEACE OF MIND WITH CSR ENVEO

With CSR Enveo you gain access to expert technical support, detailed specification documentation, estimation and guidance on delivering your project's sustainability goals.

And, because the Enveo façade solution exclusively includes CSR products, your chosen system will be backed by the CSR Enveo Enhanced Warranty so you can specify with confidence.

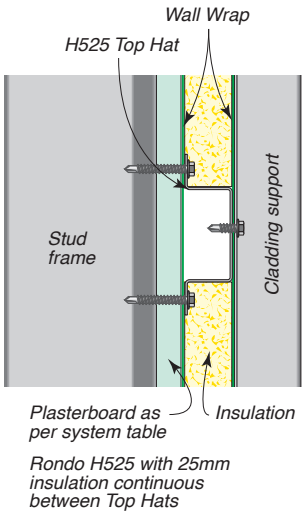
CSR ENVEO – THERMALLY ENHANCED – EXTERNAL INSULATION

FIG ENV 2: ENVEO - THERMALLY ENHANCED - EXTERNAL INSULATION



NOTE: Images are for representation purposes only and may not accurately represent actual products, construction and/or installation methods. For general calculation assumptions, refer to The Red book 1

FIG ENV 3: TOP HAT OPTIONS



The wall model used in the calculation has four (4) unique thermal resistance pathways from exterior to interior. The following specific assumptions were used for this calculation:

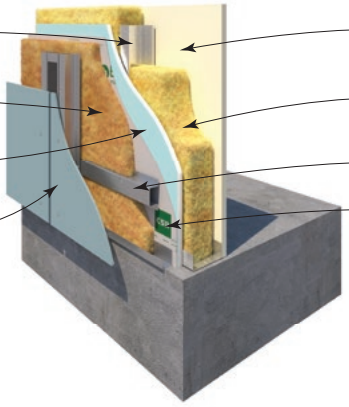
- Horizontal top hats: Rondo H525
- Internal side stud framing: 92mm x 1.15mm BMT steel sections (i.e., studs, tracks, nogging).
- No alignment between the horizontal top hats and noggings of the internal stud framing.

TABLE ENV 5: THERMAL PATHWAYS THROUGH DOUBLE STUD SYSTEM

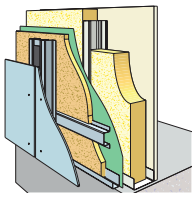
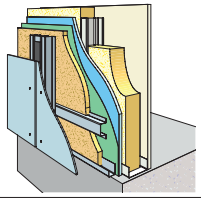
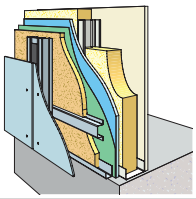
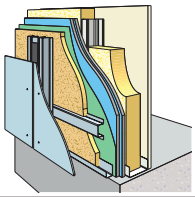
Pathway	Thermal Pathway Through Wall	Weighted Area (%)
1	Lining materials + cavity insulation materials NOT ALIGNED with stud framing or horizontal top hats.	73.54
2	Stud framing + aligned materials but EXCLUDING areas intersecting with horizontal top hats.	14.80
3	Horizontal top hats + aligned materials but EXCLUDING areas intersecting with stud framing.	9.71
4	Wall materials SIMULTANEOUSLY ALIGNED with stud framing and horizontal top hats.	1.95

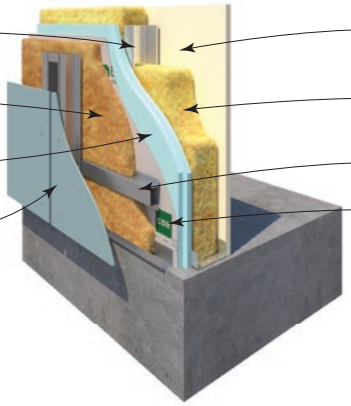
NOTES: 'Stud framing' includes studs, tracks and noggings.

SYSTEM SPECIFICATIONS — Enveo Cemintel Cladding – Thermally Enhanced – External Insulation

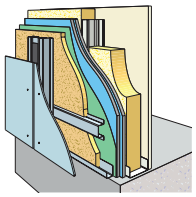
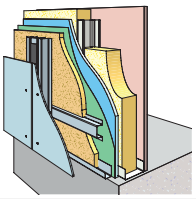
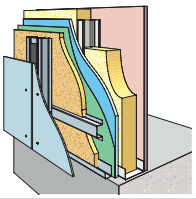
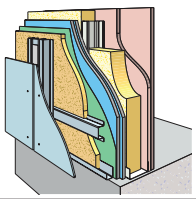


NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.

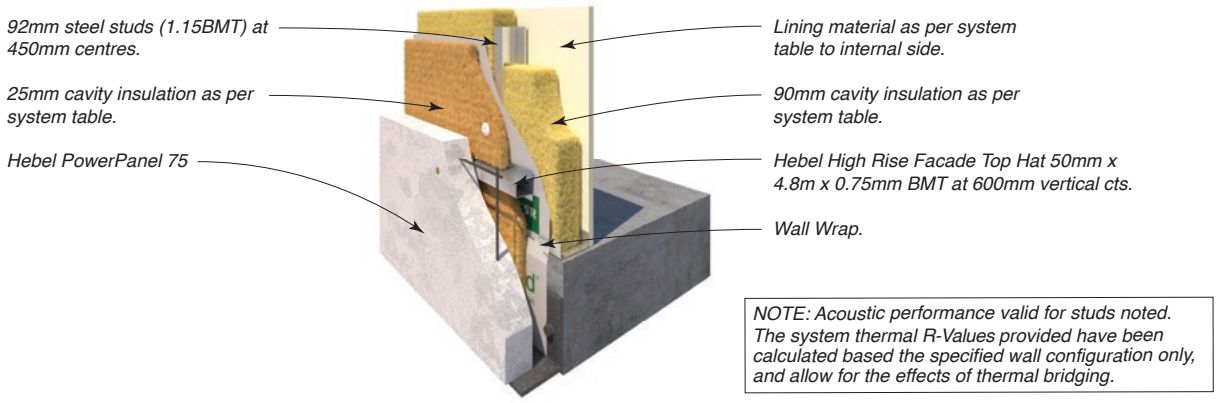
SYSTEM SPECIFICATION			ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-01			
FRL Report	**SYSTEM Nº**	**WALL LININGS**	**STUD CAVITY INFILL** (Refer to TABLE ENV 4)	**EXTERNAL BATTEN WITH INFILL**	**R_w / R_w+C_{tr}**	**$R_{t(sum)}$ / $R_{t(win)}$**
– / – / –	**ENV 11010** 	EXTERNAL WALL SIDE • Nil. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	48/38	1.72/1.80
			Wall Thickness Excluding Cladding mm		175	
30/30/30 (from outside only) FC 12946	**ENV 11020** 	EXTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	49/38	1.96/2.06
			Wall Thickness Excluding Cladding mm		188	
60/60/60 (from outside only) FC 12946	**ENV 11030** 	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	50/39	2.00/2.10
			Wall Thickness Excluding Cladding mm		191	
90/90/90 (from outside only) FC 12946	**ENV 11040** 	EXTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	51/41	2.12/2.23
			Wall Thickness Excluding Cladding mm		201	



NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.
‡ Unique height restrictions apply. Refer to The Red Book 3, height selection tables.

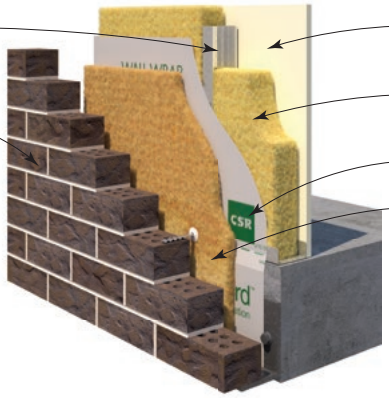
SYSTEM SPECIFICATION			ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-01			
FRL Report	**SYSTEM Nº**	**WALL LININGS**	**STUD CAVITY INFILL** (Refer to TABLE ENV 4)	**EXTERNAL BATTEN WITH INFILL**	**R_w / R_w+C_{tr}**	**$R_{t(sum)}$ / $R_{t(win)}$**
120/120/120 (from outside only) FC 12946	**ENV 11050** 	EXTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	52/42	2.19/2.30
			Wall Thickness Excluding Cladding mm		207	
30/30/30 **–/60/60** (from outside only) FC 12946	**ENV 11060** 	EXTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	50/40	1.97/2.06
			Wall Thickness Excluding Cladding mm		188	
60/60/60 **–/90/90** (from outside only) FC 12946	**ENV 11070** 	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	51/41	2.03/2.13
			Wall Thickness Excluding Cladding mm		194	
120/120/120 **–/180/180‡** (from outside only) FC 12946	**ENV 11080** 	EXTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	55/46	2.30/2.42
			Wall Thickness Excluding Cladding mm		226	

SYSTEM SPECIFICATIONS Enveo Hebel PowerPanel 75 – Thermally Enhanced – External Insulation

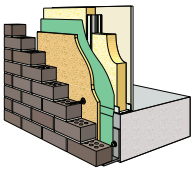
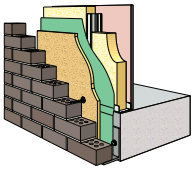
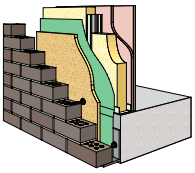
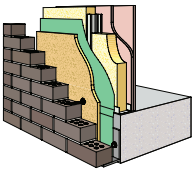


NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.

SYSTEM SPECIFICATION			ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-01			
FRL Report	**SYSTEM Nº**	**WALL LININGS**	**STUD CAVITY INFILL** (Refer to TABLE ENV 4)	**EXTERNAL BATTEN WITH INFILL**	**R_w / R_w+C_{tr}**	**$R_{t(sum)}$ / $R_{t(win)}$**
120/120/120 (from outside only) FC 2532	**ENV 21010**	INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	49/40	1.97/2.07
			Wall Thickness Excluding Cladding mm		231	
-/60/60 (from inside only **120/120/120** (from outside only) FC 2532	**ENV 21020**	INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek Plasterboard. • Studs at 450mm maximum centres.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	51/42	1.99/2.10
			Wall Thickness Excluding Cladding mm		234	
-/90/90 (from inside only **120/120/120** (from outside only) FC 2532	**ENV 21030**	INTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek Plasterboard. • Studs at 450mm maximum centres.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	52/44	2.04/2.15
			Wall Thickness Excluding Cladding mm		244	
-/120/120 (from both sides) FC 2532	**ENV 21040**	INTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek Plasterboard. • Studs at 450mm maximum centres.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	53/45	2.08/2.18
			Wall Thickness Excluding Cladding mm		250	

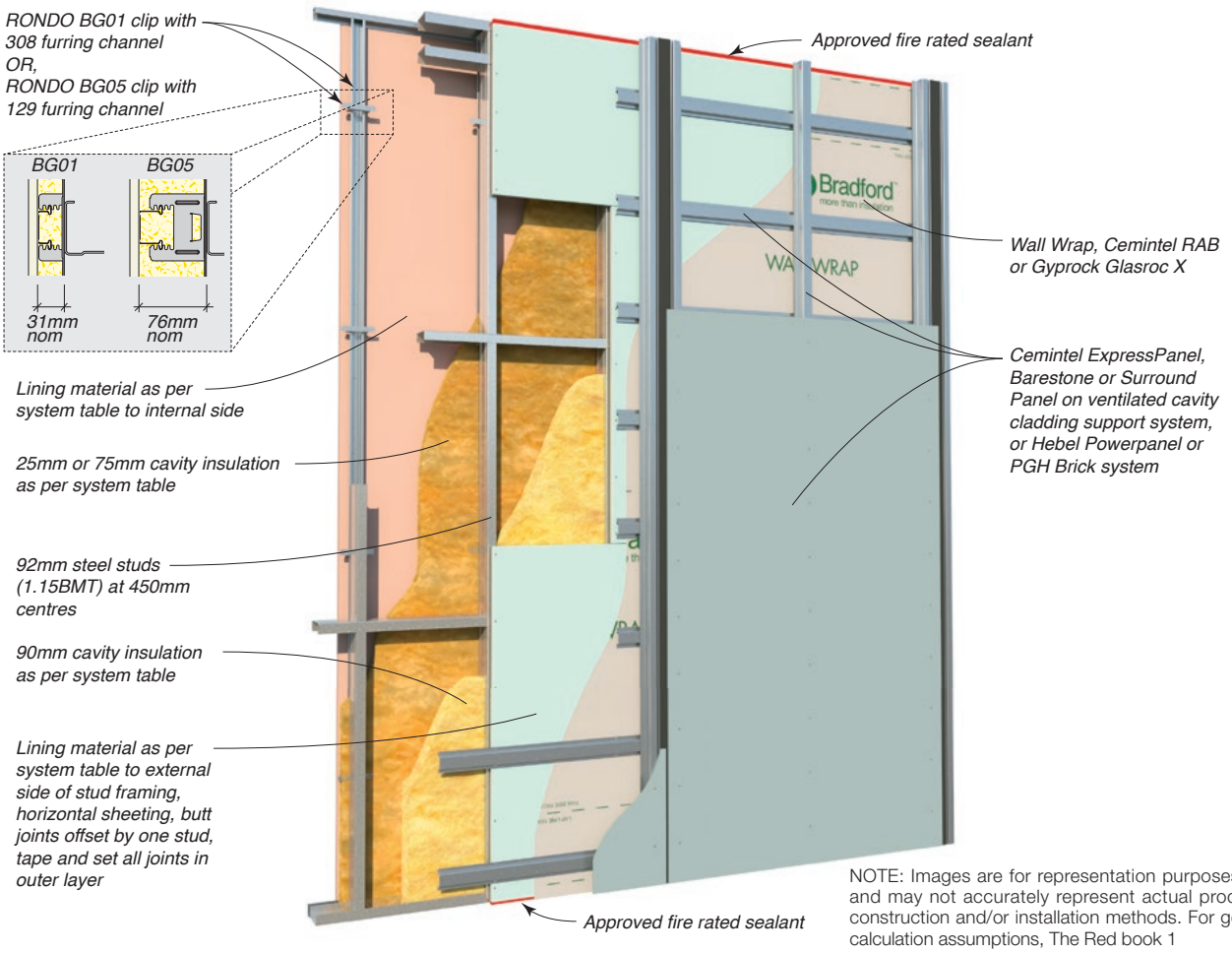


NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.

SYSTEM SPECIFICATION			ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-01			
FRL Report	**SYSTEM Nº**	**WALL LININGS**	**STUD CAVITY INFILL** (Refer to TABLE ENV 4)	**EXTERNAL BATTEN WITH INFILL**	**R_w / R_w+C_{tr}**	**$R_{t(sum)}$ / $R_{t(win)}$**
60/60/60 (from outside only) Refer to AS 3700	**ENV 31010** 	INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	61/**53**	2.31/2.46
			Minimum Wall Thickness mm		281	
60/60/60 (from both sides) Refer to AS 3700	**ENV 31020** 	INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek Plasterboard. • Studs at 450mm maximum centres.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	63/**56**	2.33/2.48
			Minimum Wall Thickness mm		284	
90/90/90 (from both sides) Refer to AS 3700	**ENV 31030** 	INTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek Plasterboard. • Studs at 450mm maximum centres.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	64/**57**	2.38/2.54
			Minimum Wall Thickness mm		294	
120/120/120 (from both sides) Refer to AS 3700	**ENV 31040** 	INTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek Plasterboard. • Studs at 450mm maximum centres.	(a) 90 Acoustigard 24kg	25 Stone Wool 80	65/**58**	2.42/2.57
			Minimum Wall Thickness mm		300	

CSR ENVEO - THERMALLY ENHANCED PLUS - INTERNAL INSULATION

FIG ENV 4: ENVEO - THERMALLY ENHANCED PLUS - INTERNAL INSULATION



NOTE: Images are for representation purposes only and may not accurately represent actual products, construction and/or installation methods. For general calculation assumptions, The Red book 1

NCC Climate Zones 6 to 8 - it is recommended that a vapour barrier is installed on the interior side of the steel frame to reduce the risk of condensation.

The wall model used in the calculation has four (4) unique thermal resistance pathways from exterior to interior. The following specific assumptions were used for this calculation:

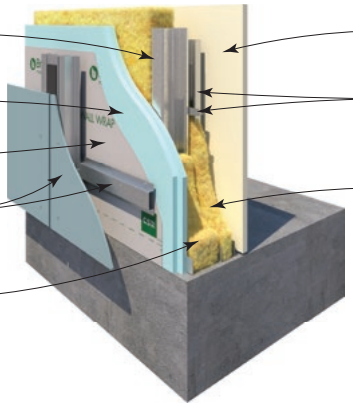
- External side stud framing: 92mm x 1.15mm BMT steel sections (i.e., studs, tracks, noggings).
- Internal side framing: Rondo BG01 clip (31mm cavity) with No.308 furring channel, or Rondo BG05 clip (76mm cavity) with No.129 furring channel.
- 100% alignment between the studs and internal furring channels.
- No alignment between the horizontal top hats and noggings of the stud framing.

TABLE ENV 6: THERMAL PATHWAYS THROUGH INTERNAL FURRING AND INSULATION SYSTEM

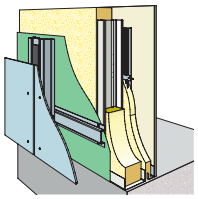
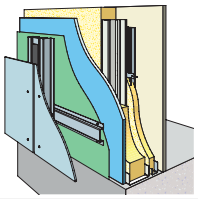
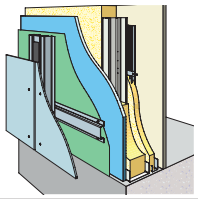
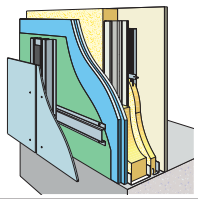
Pathway	Thermal Pathway Through Wall	Weighted Area (%)
1	Lining materials + cavity insulation materials NOT ALIGNED with stud framing or horizontal top hats or furring or clips.	79.03
2	Stud framing + aligned materials but EXCLUDING areas intersecting with horizontal top hats or furring or clips.	15.88
3	Horizontal top hats + aligned materials but EXCLUDING areas intersecting with stud framing or furring or clips.	4.22
4	Wall materials SIMULTANEOUSLY ALIGNED with stud framing and horizontal top hats	0.87

NOTES: 'Stud framing' includes studs, tracks and noggings.

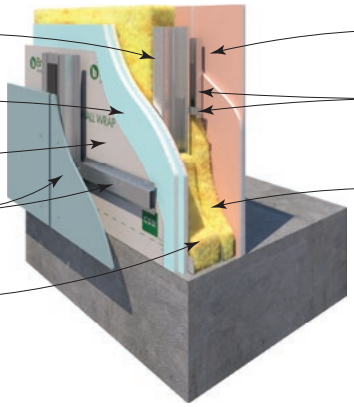
Enveo Cemintel Cladding – Thermally Enhanced Plus– Internal Insulation



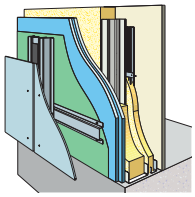
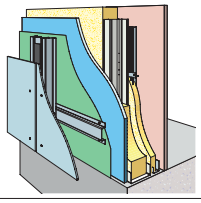
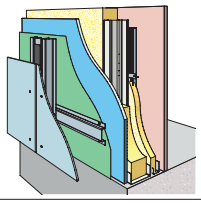
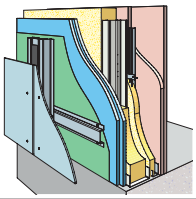
NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.

SYSTEM SPECIFICATION			FRAMING	ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-02			
FRL Report	**SYSTEM Nº**	**WALL LININGS**		**STUD CAVITY INFILL** (Refer to TABLE ENV 4)	**CLIP + FURRING WITH INFILL** (Refer to TABLE ENV 4)	**R_w / R_w+C_{tr}**	**$R_{t(sum)}$ / $R_{t(win)}$**
– / – / –	**ENV 12010** 	EXTERNAL WALL SIDE • Nil. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	48/38	2.03/2.18
				Minimum Wall Thickness mm		196	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	50/40	3.74/4.00
				Minimum Wall Thickness mm		241	
30/30/30 (from outside only) FC 12946	**ENV 12020** 	EXTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	51/40	2.14/2.28
				Minimum Wall Thickness mm		209	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	52/41	3.82/4.08
				Minimum Wall Thickness mm		254	
60/60/60 (from outside only) FC 12946	**ENV 12030** 	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	52/41	2.16/2.30
				Minimum Wall Thickness mm		212	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	53/42	3.83/4.10
				Minimum Wall Thickness mm		257	
90/90/90 (from outside only) FC 12946	**ENV 12040** 	EXTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	53/43	2.24/2.37
				Minimum Wall Thickness mm		222	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	54/44	3.89/4.15
				Minimum Wall Thickness mm		267	

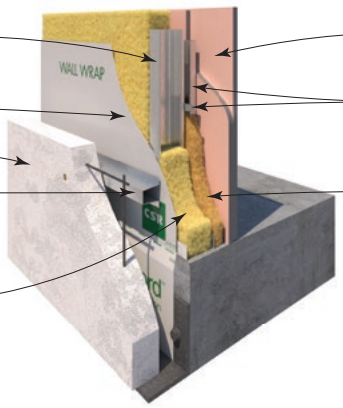
SYSTEM SPECIFICATIONS — Enveo Cemintel Cladding – Thermally Enhanced Plus– Internal Insulation



NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.
‡ Unique height restrictions apply. Refer to The Red Book 3, height selection tables.

SYSTEM SPECIFICATION			FRAMING	ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-02			
FRL Report	SYSTEM Nº	WALL LININGS		STUD CAVITY INFILL (Refer to TABLE ENV 4)	CLIP + FURRING WITH INFILL (Refer to TABLE ENV 4)	R_w / R_w+C_{tr}	$R_{t(sum)}$ / $R_{t(win)}$
120/120/120 (from outside only) FC 12946	**ENV 12050** 	EXTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	53/43	2.28/2.42
				Minimum Wall Thickness mm		228	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	54/44	3.92/4.18
				Minimum Wall Thickness mm		273	
30/30/30 –/60/60 (from both sides) FC 12946	**ENV 12060** 	EXTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 13mm Gyprock Fyrchek Plasterboard..	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	52/42	2.15/2.29
				Minimum Wall Thickness mm		196	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	53/43	3.82/4.09
				Minimum Wall Thickness mm		241	
60/60/60 –/90/90 (from both sides) FC 12946	**ENV 12070** 	EXTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek Plasterboard..	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	53/43	2.18/2.32
				Minimum Wall Thickness mm		215	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	54/44	3.86/4.12
				Minimum Wall Thickness mm		260	
120/120/120 –/180/180‡ (from both sides) FC 12946	**ENV 12080** 	EXTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. INTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek Plasterboard..	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	57/48	2.39/2.53
				Minimum Wall Thickness mm		247	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	58/49	4.03/4.30
				Minimum Wall Thickness mm		292	

SYSTEM SPECIFICATIONS — Enveo Hebel PowerPanel 75 – Thermally Enhanced Plus– Internal Insulation



92mm steel studs (1.15BMT) at 450mm centres.

Wall Wrap.

Hebel PowerPanel 75

Hebel High Rise Facade Top Hat 50mm x 4.8m x 0.75mm BMT at 600mm vertical cts.at 600mm vertical cts.

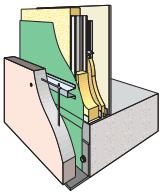
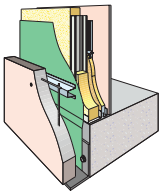
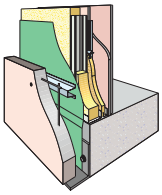
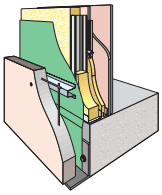
90mm cavity insulation as per system table.

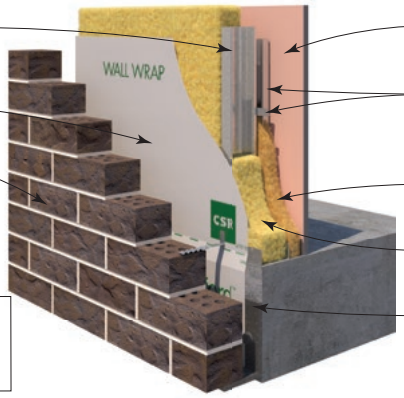
Lining material as per system table to internal side.

Rondo BG01 Clip + 308 Furring channel
OR
Rondo BG05 Clip + 129 Furring Channel.

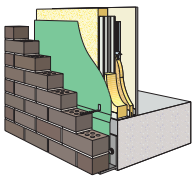
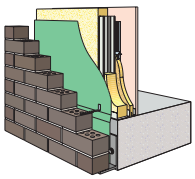
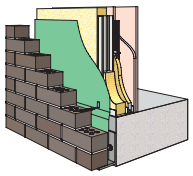
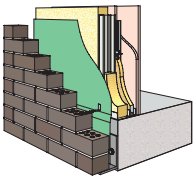
25mm or 75mm cavity insulation as per system table.

NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.

SYSTEM SPECIFICATION			FRAMING	ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-02			
FRL Report	**SYSTEM Nº**	**WALL LININGS**		**STUD CAVITY INFILL** (Refer to TABLE ENV 4)	**CLIP + FURRING WITH INFILL** (Refer to TABLE ENV 4)	**R_w / R_w+C_{tr}**	**$R_{t(sum)}$ / $R_{t(win)}$**
120/120/120 (from outside only) FC 2532	**ENV 22010** 	INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	52/43	2.03/2.19
				Minimum Wall Thickness mm		262	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	53/44	3.76/4.02
				Minimum Wall Thickness mm		307	
–/60/60 (from inside only) **–/120/120** (from outside only) FC 2532	**ENV 22020** 	INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. • Studs at 450mm maximum centres.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	54/45	2.05/2.21
				Minimum Wall Thickness mm		265	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	55/**56**	3.78/4.05
				Minimum Wall Thickness mm		310	
–/90/90 (from inside only) **–/120/120** (from outside only) FC 2532	**ENV 22030** 	INTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek MR Plasterboard. • Studs at 450mm maximum centres.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	55/47	2.11/2.27
				Minimum Wall Thickness mm		275	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	56/48	3.83/4.10
				Minimum Wall Thickness mm		320	
–/120/120 (from both sides) FC 2532	**ENV 22040** 	INTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. • Studs at 450mm maximum centres.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	56/48	2.31/2.50
				Minimum Wall Thickness mm		281	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	57/49	3.87/4.14
				Minimum Wall Thickness mm		3.26	



NOTE: Acoustic performance valid for studs noted. The system thermal R-Values provided have been calculated based the specified wall configuration only, and allow for the effects of thermal bridging.

SYSTEM SPECIFICATION			FRAMING	ACOUSTIC REPORT: PKA-A119 THERMAL REPORT: ENV-TR-02			
FRL Report	SYSTEM Nº	WALL LININGS		STUD CAVITY INFILL (Refer to TABLE ENV 4)	CLIP + FURRING WITH INFILL (Refer to TABLE ENV 4)	Rw / Rw+Ctr	Rt(sum) / Rt(win)
60/60/60 (from outside only) Refer to AS 3700	**ENV 32010** 	INTERNAL WALL SIDE • 1 x 13mm Gyprock Standard Plasterboard	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	60/**52**	2.18/2.37
				Minimum Wall Thickness mm		287	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	61/**53**	3.81/4.09
				Minimum Wall Thickness mm		332	
60/60/60 (from both sides) Refer to AS 3700	**ENV 32020** 	INTERNAL WALL SIDE • 1 x 16mm Gyprock Fyrchek MR Plasterboard. • Studs at 450mm maximum centres.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	62/**55**	2.20/2.39
				Minimum Wall Thickness mm		290	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	63/**56**	3.84/4.12
				Minimum Wall Thickness mm		335	
90/90/90 (from both sides) Refer to AS 3700	**ENV 32030** 	INTERNAL WALL SIDE • 2 x 13mm Gyprock Fyrchek MR Plasterboard. • Studs at 450mm maximum centres.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	63/**56**	2.26/2.45
				Minimum Wall Thickness mm		300	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	64/**57**	3.89/4.17
				Minimum Wall Thickness mm		345	
120/120/120 (from both sides) Refer to AS 3700	**ENV 32040** 	INTERNAL WALL SIDE • 2 x 16mm Gyprock Fyrchek MR Plasterboard. • Studs at 450mm maximum centres.	BG01 + RONDO 308	(a) 90 Acoustigard 24kg	25 Acoustigard 24kg	64/**57**	2.29/2.48
				Minimum Wall Thickness mm		306	
			BG05 + RONDO 129	(b) 90 Acoustigard 24kg	75 Acoustigard 24kg	65/**58**	3.92/4.21
				Minimum Wall Thickness mm		351	

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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.

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

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The Red Book Suplimental systems – April 2026

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