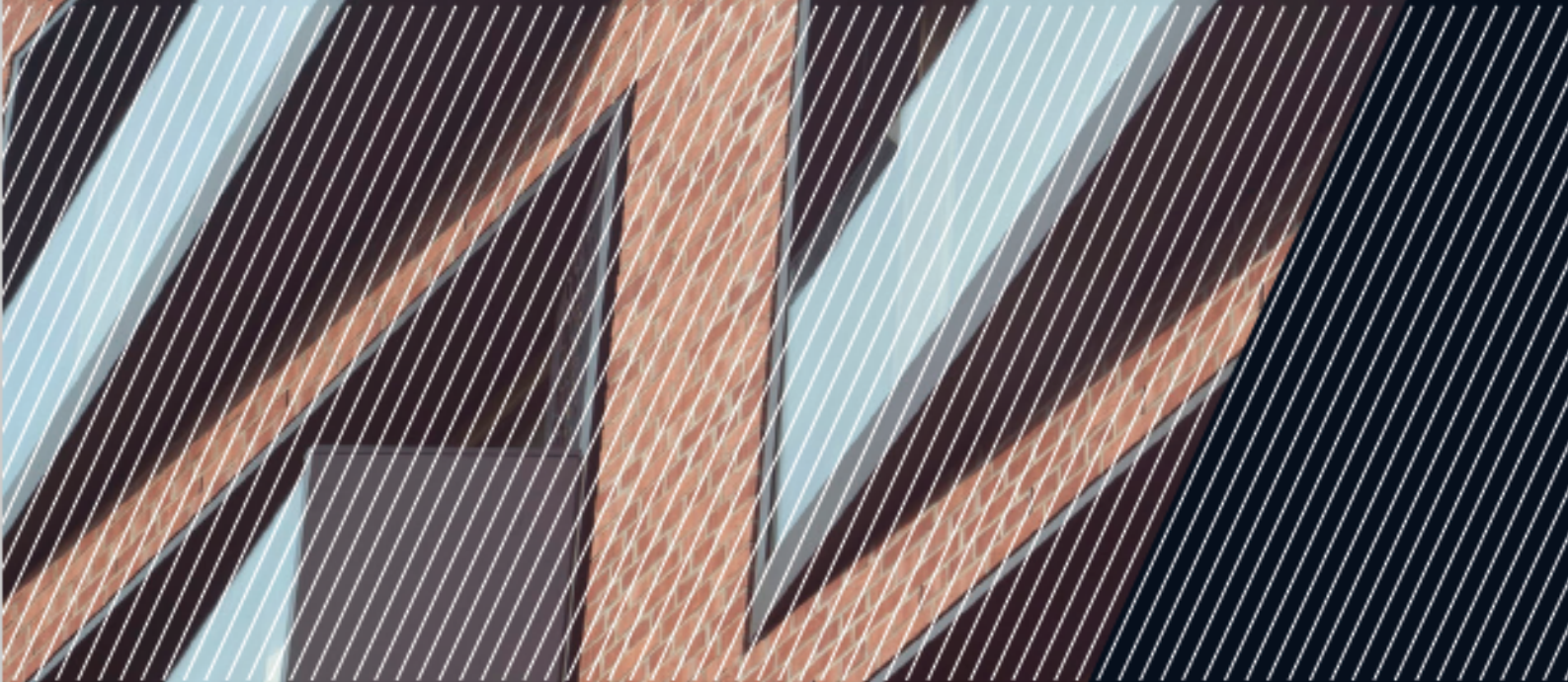




FAIRVIEW

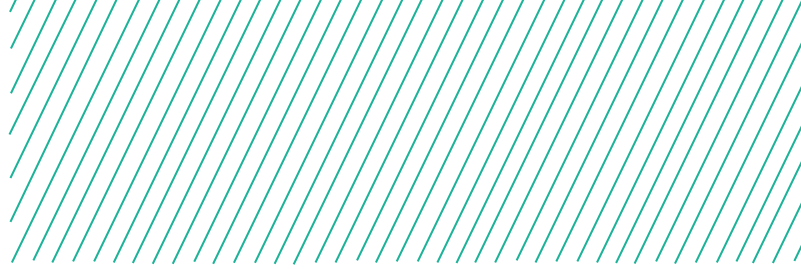
DEFINING ARCHITECTURE SINCE 1984



smartbric®

TECHNICAL DATA SHEET

BRICK RAINSCREEN FAÇADE SYSTEM / MANUFACTURED BY FAIRVIEW



ABOUT SMARTBRIC®

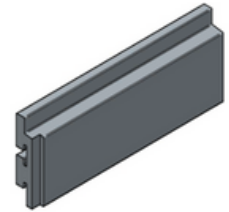
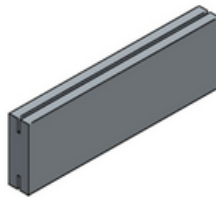
Smartbric® by Fairview is an innovative ventilated rainscreen Brick Façade System which ingeniously incorporates the option of using either a grouted Classic brick facing or a modern Rapid mortar-less brick facing with a unique universal mounting track or rail option to deliver a versatile natural looking masonry façade solution.

The system has been tested to AS4284 and developed for quick, smart and simple installation by skilled tradesmen as well as traditional bricklayers. Made using vitrified clay and concrete masonry, Smartbric® allows the designer to achieve a realistic brick look without the shortcomings or restraints of traditional brickwork when it comes to weight, limited space or where traditional brick construction is not economically viable.

SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

TECHNICAL DATA SHEET · BRICK FACINGS

Profile - Brick Facings

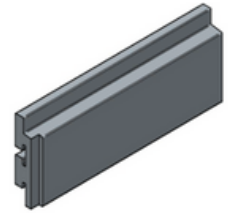
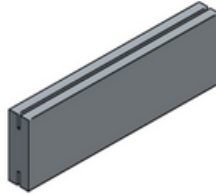


Product	Classic			Rapid
Origin	Local	Local	Imported	Imported
Material	Clay# (pressed and cut)	Concrete Masonry (pressed and cut)	Clay (extruded)	Clay (extruded)
Nominal Face Size [L x H x W]	230mm x 76mm x 25mm	230mm x 76mm x 25mm	230mm x 76mm x 25mm	240mm x 76mm x 25mm (includes 8-10mm prepend recess)
Coefficient of expansion [AS/NZS 4456.11]	0.32-0.68 mm/m (Based on brick property)			
Heat Transfer Co-efficient			1.1	
Water Absorption AS/NZS 4456.14	< 10%		~ 5% [Indicative]	< 10% [typically ~ 4%]
Frost Resistance				Not less than 150 cycles
Combustibility	Clay and Concrete masonry units are deemed non-combustible by NCC			
Cover [Bricks/m ²]	48.5	48.5	48.5	48.5
Course Height	87mm (76mm brick + 10mm mortar)	87mm (76mm brick + 10mm mortar)	87mm (76mm brick + 10mm mortar)	87mm (76mm brick + 10mm mortar)
Weight ⁺ Per Unit	0.86kg -1.0 kg per unit	0.81kg	0.85kg	0.845kg
Weight ⁺ kg/m ² Based on 48.5 units/m ²	41.7	39.3	41.2	41.0
Density [kg/m ³]	2010	1950	1981	1754
Application	Architectural Wall Cladding – Hi-Rise Residential and Hi-Rise Commercial			
Orientation	Horizontal [Vertical - contact FVA]			
Matching Corner Unit	Yes	Yes	Mitred only	Mitred only

SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

TECHNICAL DATA SHEET· BRICK FACINGS

Profile - Brick Facings



Product	Classic			Rapid
	Local	Local	Imported	Imported
Origin	Local	Local	Imported	Imported
Material	Clay# (pressed and cut)	Concrete Masonry (pressed and cut)	Clay (extruded)	Clay (extruded)
Dimensional Category (AS/NZS 4455.1 - Table 2.1)	DW2	DW2	DW2	DW2
Thickness Tolerance	± 3mm			± 2%
Convexity and Concavity			± 1mm	
Length Tolerance				± 5%
Dimensional Stability/Tolerance			± 2mm	± 2%
Salt Attack Resistance Grade (AS/NZS 4455.1 - Table 2.3)	EXP	EXP	EXP	EXP
Breaking Load Mean (AS4456.5)	>1.0 kN [typical]	0.6 kN	1.1 kN	1.8 kN
Breaking Load Std Dev (AS4456)	0.4 kN	0.1 kN	0.3 kN	0.1 kN
Breaking Load Characteristic Strength (AS4456)	0.2 kN	0.3 kN	0.5 kN	1.1 kN
Modulus of Rupture Mean (AS4456)	5.4 MPa	3.5 MPa	8.8 MPa	9.8 MPa
Modulus of Rupture Std Dev (AS4456)	2.4 MPa	0.8 MPa	2.1 MPa	0.6 MPa
Modulus of Rupture Characteristic Strength (AS4456)	1 MPa	2 MPa	3.2 MPa	6.3 MPa
IRA (Initial Rate of Absorption) AS/NZS 4456.17 Note: Typical < 1.0 kg/m ² /min mean around 0.4 kg/m ² /min	4.0 kg/m ² /min	0.6 kg/m ² /min	5.3 kg/m ² /min	1.2 kg/m ² /min

SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

TECHNICAL DATA SHEET- BRICK FACINGS

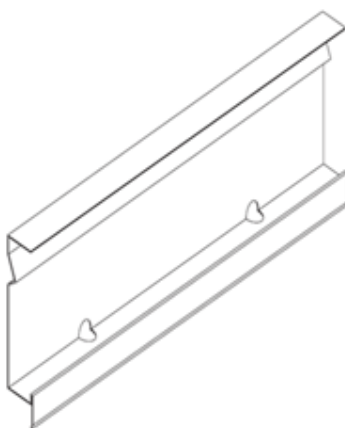
Profile - Brick Facings



Product	Classic			Rapid
Origin	Local	Local	Imported	Imported
Material	Clay# (pressed and cut)	Concrete Masonry (pressed and cut)	Clay (extruded)	Clay (extruded)
Mass/unit Area* [System]	55 kg /m2 (Approximately)			
Pitting due to Lime Particles AS4456.13	NIL			
Potential to Effloresce AS4456.6	NIL			
Substructure / Typical Fixing Method	1. Fix to Smartbric Tack or Smartbric Rail (see below) 2. Fix Smartbric Tack or Smartbric Rail to S-Batten (35 x 25 x 1mm BMT G500) / Steel tophat battens (35 x 50 x 1.1mm BMT G250) / Aluminium tophat battens (22.5 x 90 x 2.5mm BMT 6063-T5)			

SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

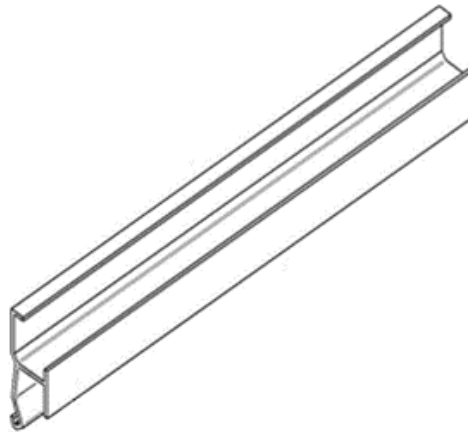
TECHNICAL DATA SHEET· SMARTBRIC TRACK



Material(s)	Grade G2 Galvanised Steel (Z275 coating) with a base metal thickness (BMT) of 0.55mm, and a total coated thickness (TCT) of 0.59mm compliant with AS1397. Continuous hot-dipped metallic coated steel sheet and strip. - G2 with Z600 Coating available on request (0.6 BMT) - G300 with Magnaflow Coating available on request (0.55 BMT) - Stainless Steel 304 (BMT 0.55) and 316 (BMT 0.55) grades available on request
Fasteners (Class 3 Minimum)	Track to Battens· 10G-16x16 Metal Tek screw Battens to Frame· 12Gx20 Metal Tek screw
Length (Standard)	2.4m 3.0m 4.2m
Thickness (BMT)	0.55mm
Yield Strength	350 -390 MPa (G2 Steel)
Combustibility	Non-combustible material as per the National Construction Code (NCC) 2022 Volume One C2D10(5) – Deemed to Satisfy and AS 1530.1
Thermal Expansion	3mm average per 5m @ 50°C
Installer	Can be installed by an experienced tradesman and qualified cladding installer, in accordance with installation manual.
Fire Test Performance (AS/NZ 1530.3)	Ignitability index· 0 rating in scale of 0-20 Spread of flame index· 0 rating in scale of 0-10 Heat evolved index· 0 rating in scale 0-10 Smoke developed index· 0 rating in scale of 0-10 (3 for Magnaflow™)
Weight - kg/m	0.5
Weight - kg/m ²	5.85

SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

TECHNICAL DATA SHEET· SMARTBRIC RAIL



Material	Aluminium 6060 - T5 - Supplied in mill finish - Powder coated finish available on request - Anodised finish available on request
Fasteners (Class 3 Minimum)	Track to Battens· 10G-16x16 Metal Tek screw Battens to Frame· 12Gx20 Metal Tek screw
Length (Standard)	6.5m
Thickness (BMT)	1.5mm wall thickness
Weight (kg/m)	0.375
Weight (kg/m ²)	4.36
Tensile Yield Strength	276 MPa
Combustibility	Non-combustible material as per the National Construction Code (NCC) 2022 Volume One C2D10(5) – Deemed to Satisfy and AS 1530.1
Thermal Expansion	5.85 mm average per 5m @ 50°C (23.4 x10 ⁻⁶ /K)
Installer	Can be installed by an experienced tradesman and qualified cladding installer, in accordance with installation manual.

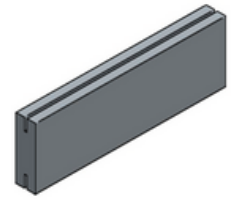
SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM





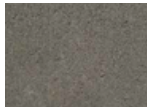
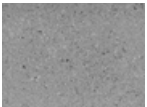
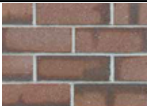

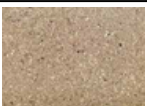
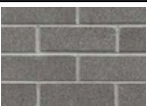
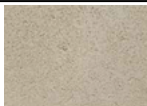







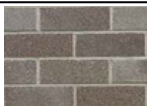

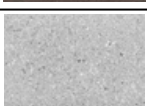
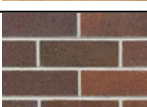

TECHNICAL DATA SHEET- ANCILLARIES

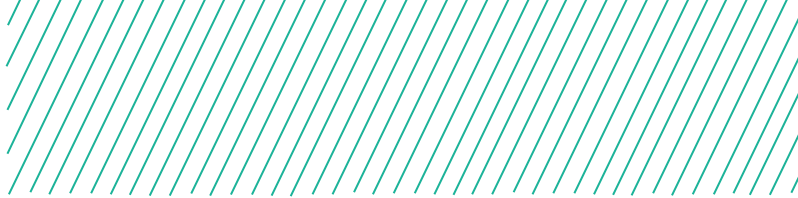
Ancillaries	
Brick	Smartbric Corners (Australian sourced products)
Track	Smartbric Creeper Track (Roll-formed Steel)
Rail	Smartbric Starter Rail (Aluminium)
Rail	Smartbric Top Rail (Aluminium)
Trim	Internal Angle Trim (Extruded Aluminium)
Trim	External Angle Trim (Extruded Aluminium)
Trim	J-Mould Perimeter Trim (Extruded Aluminium)
Spacers	Smartbric Spacers (Galvanised and Aluminium) - Boxes of 500 and 2000
Joiners	Smartbric Joiners (Galvanised and Aluminium) - Boxes of 500 and 2000
Mortar	Smartbric Add-Mix - Concentrated Powder Plasticizer for Cement-based Mortars (4kg)
Mortar	Smartbric Redi-Mix - Pre-Mixed Polymer Modified Flexible Mortar(10L) - Colours- Santori (Off-white/Light Grey) , Barley (Neutral) & Beach Glass (Mid Grey)
Weatherseal	Pro-Clima Breathable Waterproofing Membrane / Sarking - Moisture control
Weatherseal	Pro-Clima Weathertight Sealing Tape and Corner Tape
Weatherseal	Pro-Clima Sill Tape
Framing	VitraFix Batten - 35mm S-Section (6.5m)
Framing	VitraFix Top Hats - 24mm and 35mm
Framing	VitraFix Aluminium Angle 32mm x 32mm x 3mm (6m)

SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

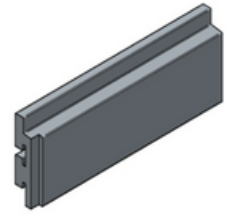
TECHNICAL DATA SHEET· COLOUR RANGE - CLASSIC FACINGS



Classic Clay (AU)		Classic Concrete (AU)		Classic Clay (Imported)	
Federation Blue SBACL001		Storm SBC0006		Brown Slate SBPC0001	
Seahaze SBAC0002		Peppercorn SBC0005		Iron Ore SBPC0002	
Cajun Red SBACL0003		Hazelnut SBC0004		Mushroom SBPC0003	
Shale Grey SBACL004		Limestone SBC0003		Sienna SBPC0004	
Mountain Ash SBACL0005		Salt SBC0002		Henna SBPC0005	
Saddle Tan SBACL0006		Moody Grey SBC0001		Walnut SBPC0006	
Stone SBACL0007				Caviar SBPC0007	
Golden Sand SBACL0008				Talc SBPC0008	
Federation Red (Federation Blend) SBACL0009					
Federation Black SBACL0010					



SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM TECHNICAL DATA SHEET· COLOUR RANGE - RAPID FACINGS



Rapid (Imported)		Rapid (Imported)	
Red Earth SBR0001		Shoreline SBR0012	
Buff SBR0002		Wrought Iron SBR0013	
Pebble SBR0003		Paper Bark SBR0014	
Terrain SBR0004		Sand SBR0015	
Cherrywood SBR0005		Spice SBR0017	
Copper SBR0006		Canyon Clay SBR0018	
Pewter SBR0010		Outback SBR0019	
Clay SBR0011		Rust SBR0020	



SMARTBRIC® MASONRY RAINSCREEN FAÇADE SYSTEM

TECHNICAL DATA SHEET· NOTES

NOTES:

- * Custom products available on request and subject to minimum order quantities and lead times.
- † Approximate only - variable do to combination used or variability in the materials used
- # Extruded local brick options also available
- ‡ Made to Order (Limited Stock) - available on request and subject to minimum order quantities and lead times.

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WHILE THE INFORMATION PROVIDED RELATING TO FAIRVIEW PRODUCTS IS TRUE TO THE TESTS AND MEASURES AVAILABLE TO US, THE INFORMATION PROVIDED IN THIS ARTICLE IS GENERAL IN NATURE ONLY AND DOES NOT CONSTITUTE PROJECT-SPECIFIC BUILDING, CONSTRUCTION OR FIRE-SAFETY ADVICE. BEFORE ACTING ON ANY INFORMATION ON THIS DOCUMENT, YOU SHOULD CONSIDER THE APPROPRIATENESS OF THE INFORMATION HAVING REGARD TO YOUR PROJECT PARAMETERS AND REQUIREMENTS.

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SMARTBRIC TDS / NOVEMBER 2023