PRODUCT INTRODUCTION

vitracore G2®

DEEMED NON-COMBUSTIBLE ALUMINIUM PANEL / MANUFACTURED BY FAIRVIEW

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ABOUT VITRACORE G2

Vitracore G2 is Australia's leading deemed non-combustible aluminium panel.

The benefits of Vitracore G2 include its high mechanical properties and simple fabrication. The outstanding surface flatness is enhanced with a high quality PVDF coating system, which provides optimum resistance to weather and industrial pollutants and comes in an unlimited range of colours, as well as a selection of natural finishes.

100% developed and manufactured by Fairview, Vitracore G2 is exactly the same as traditional aluminium composite panel (ACP), however, the advanced technology of the core is constructed from a complete aluminium structure rather than from a combustible material. It does not contain any polyethylene.

Not only does it look similar to traditional ACP, it is also the same to fabricate and install. In addition, the technology of the core allows continual production; providing an exceptionally consistent and cost effective product.

Vitracore G2 can be easily and accurately installed by a pre-made cassette system, requires minimal maintenance and comes with excellent long-term performance.

KEY FEATURES

DEEMED NON-COMBUSTIBLE
Vitracore G2 is one of few aluminium panels globally that is deemed non-combustible under the Building Code of Australia (BCA) when tested to AS1530.1 & AS1530.3 under clause C1.9e Part(vi).

PAINT SYSTEM
Vitracore G2 only uses the highly recognised PVDF KYNAR 500 or FEVE paints known for their high durability, providing the optimum resistance to weather and industrial pollution.

CODEMARK
Vitracore G2 is ABCB CodeMark certified to comply with the Building Code of Australia ensuring that you are specifying a quality assured product.

WEATHERPROOFED
Vitracore G2 is weatherproofed to BCA clause FP1.4.

COST EFFECTIVE
Vitracore G2 is a more cost effective solution than other products on the market.

CONCEALED FIX SYSTEM
Vitracore G2 is the same to fabricate and install as traditional ACP by CNC routing panels into the concealed fix z-angle cassette system.

INFRASTRUCTURE
Being deemed non-combustible and offering simple and lightweight fabrication makes Vitracore G2 a suitable product for large infrastructure projects.

WARRANTY
Vitracore G2 has up to 15 year's warranty when correctly installed and maintained.

THE LANTERN, WELLINGTON ST,
COLLINGWOOD VIC

COLLEGE JUNCTION QSCAN, CLAYFIELD QLD

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FIRE RESISTANCE

In today's architecture, it is the technical details, as well as the appearance that count; such as sustainability, moisture control, and fire protection. The specification and use of deemed non-combustible façade panels has now become an industry norm amongst architects and industry professionals.

Vitracore G2 was the first bonded aluminium panel to be awarded the status 'deemed non-combustible' under the Building Code of Australia (BCA) under Clause C1.9e(vi) and is tested to AS1530.1 and AS1530.3. Vitracore G2 is the proven choice for use where deemed non-combustible cladding must be specified such as hospitals, schools and high-rise buildings.

To provide further peace of mind and demonstrate full scale performance Vitracore G2 has also been large scale tested to the requirements of AS5113 and BS8414, and did not propagate flame.

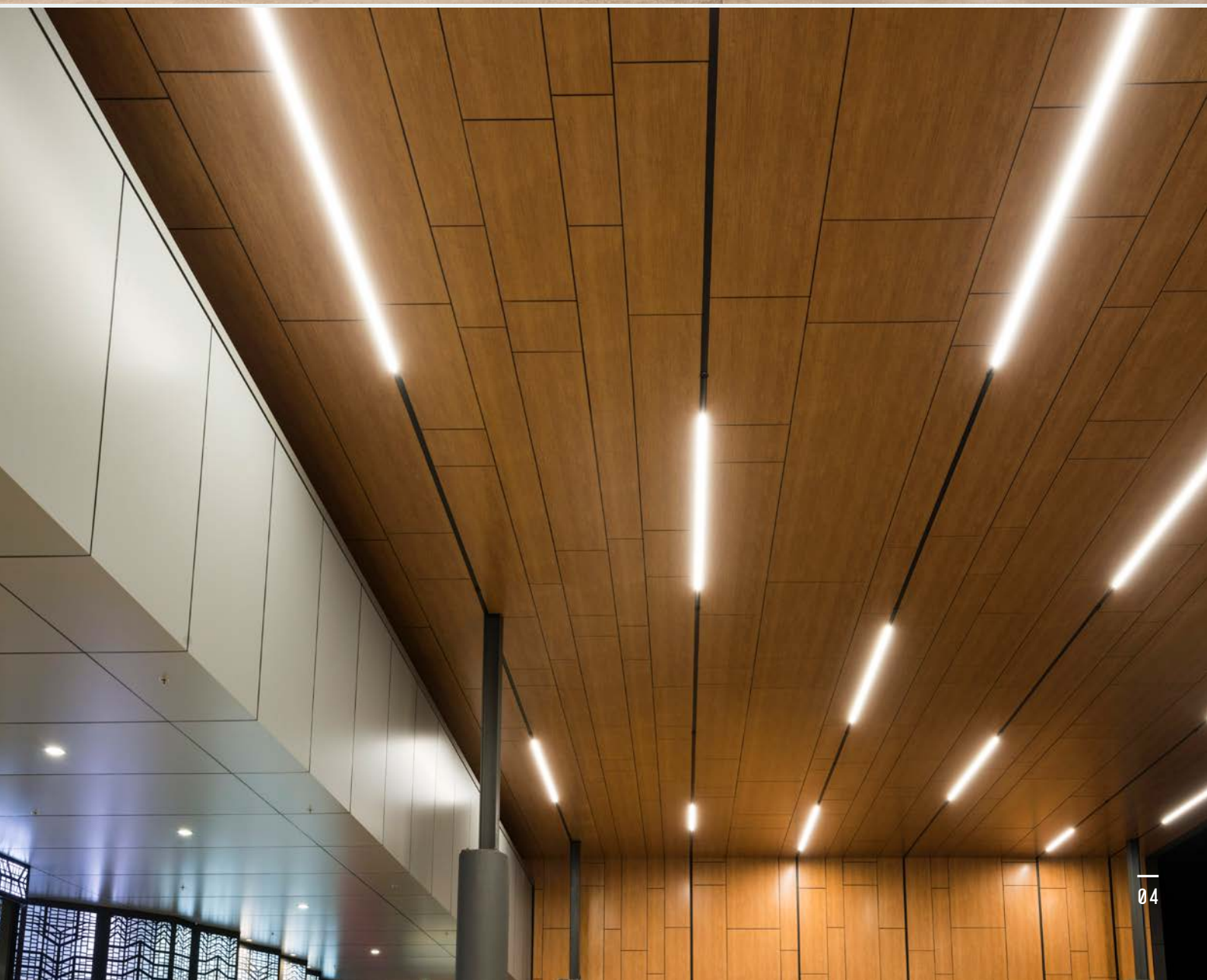
VITRACORE G2			
TEST STANDARD	RESULT		
AS1530.1	LAMINATE LAYERS NON-COMBUSTIBLE		
AS1530.3	PASS	Ignitability Index	0
	PASS	Heat Evolved	0
	PASS	Spread of Flame	0
	PASS	Smoke Developed	1
Compliance with C1.9E(vi)	DEEMED NON-COMBUSTIBLE		
BR135 & BS8414	PASS		
AS5113	Flame spread and temperatures well below AS5113 requirements, however as expected for aluminium panels, the debris criteria was not met.		

INFRASTRUCTURE

Vitracore G2 has been widely used on infrastructure projects such as schools and hospitals due to it being deemed non-combustible. Other key benefits of using this product on infrastructure projects include:

- Deemed non-combustible
- Resistant to corrosion
- Lightweight
- Easy to install and replace
- Cost-effective
- Unlimited colour range, including graphics
- Design flexibility
- Long term durability

ASPLEY HYPERMARKET, ASPLEY QLD



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MANUFACTURING QUALITY

A dedication to the total fulfillment of our client's and customer's expectations is reflected by a complete quality control system, beginning at the point of specification and continuing through to delivery of the guaranteed products. All activities are carried out in a manner which;

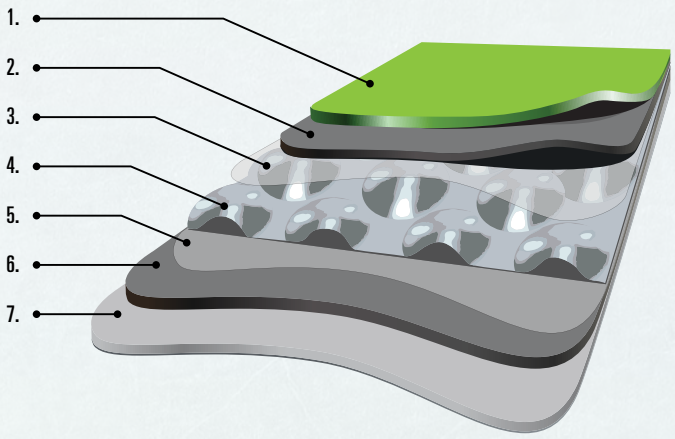
- Uses the framework of ISO9001 Quality Standard to verify the quality of our systems.
- Ensures that our products and services are of the highest standards.
- Creates continuous improvements to our product through the application of the best quality practices.

ACCEPTANCE VARIATION

WIDTH	±2.0 mm
LENGTH	±4.0 mm
THICKNESS	±2%
BOW MAXIMUM	0.5% of the length and/or width
SQUARENESS MAXIMUM	5.0 mm
SURFACE DEFECTS	The surface shall not have any irregularities such as dents, scratches and other imperfections in accordance with our quality assurance.

TYPICAL COMPOSITION

1. PVDF Coloured Coating
2. 0.7mm Aluminium Skin
3. < 0.1mm Adhesive
4. 3mm Profiled Aluminium Core
5. < 0.1mm Adhesive
6. 0.5mm Aluminium Skin
7. Polyester Anti-corrosion Coating



DIMENSIONS

WIDTH	LENGTH	THICKNESS
1250	3200	4mm
	4000	
1500	3200	
	4000	
CUSTOM SIZES ARE AVAILABLE, **PLEASE SPEAK TO THE FAIRVIEW TEAM**		

WEIGHT

THICKNESS	WEIGHT (KG/M²)
4mm	4.6

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TECHNICAL DATA

CLASSIFICATION	TEST STANDARD	UNIT	VITRACORE G2
PANEL WEIGHT		[kg/m^2]	4.6
THICKNESS		[mm]	4
THICKNESS OF ALUMINIUM FACE		[mm]	0.7
WIDTH		[mm]	1250/1500
ALUMINIUM SKIN			
TENSILE STRENGTH			160MPa
ALLOY/TEMPER OF AUMINIUM LAYERS			3003 H24
SURFACE PROPERTIES (PVDF COATINGS)			
DRY FILM THICKNESS (NOMINAL)	ASTM D1400		0.20-0.30 mil primer 0.70-0.80 mil topcoat
GLOSS	ASTM D523		Standard @ 60°: 25-35 Duranar LG @ 85°: <10
PENCIL HARDNESS	ASTM D3363		F-2H
FLEXIBILITY	T-Bend, ASTM D4145		0-2 T-Bend; No pick-off
ADHESION	ASTM D3359 Reverse Impact 1/16' crosshatch		No adhesion loss
REVERSE IMPACT	ASTM D2794		1.5 x Metal thickness (aluminium): No cracking or adhesion loss
ACID RESISTANCE	ASTM D1308		10% Muriatic acid - 24 hrs: No effect
ACID RAIN TEST	Kesternich SO^2, DIN 50018		15 Cycles min. No objectionable colour change
ALKALI RESISTANCE	ASTM D1308 10%, 25%, NaOH, 1 hr.		No effect
SALT SPRAY RESISTANCE	ASTM B117 5% salt fog @ 95°F		Passes 4000 hrs. Less than 1/1' avg. creepage from scribe; None or few #8 blisters
HUMIDITY RESISTANCE	ASTM D714 ASTM D2247 100% relative humidity @ 95°F		Passes 4000 hrs. No #8 blisters
EXTERIOR EXPOSURE	ASTM D2244 ASTM D4214 10 yrs. @ 45°, South Florida		Max. 5 fade Max. 8 chalk

JAGUAR LAND ROVER, SOUTHPORT QLD

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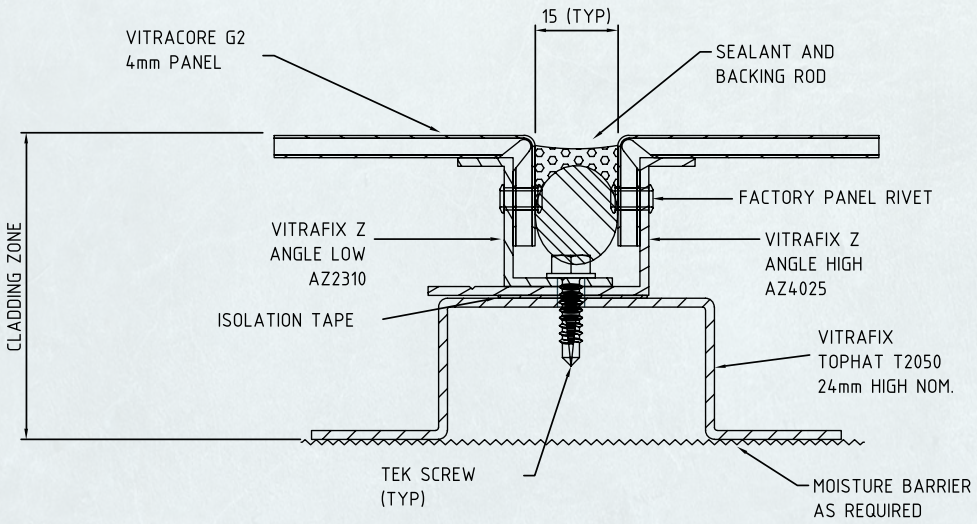
FINISH

Vitracore G2 uses only the highly recognised PVDF KYNAR 500 or FEVE paints known for their excellent durability. These premium paints provide an optimum resistance to weather and industrial pollution. More than 40 years of South Florida Exposure Testing is continuing to confirm the superior chemical and physical properties of fluoro polymer coatings.

Vitracore G2 has an unlimited colour range as we are able to match almost any finish and colour required.

Vitracore G2 panels also come in a range of anodised finishes, offering both standard and customised colours and textures as well as natural zinc finishes. It can also be used with our custom graphic cladding solution, VitraART, to create a truly individual façade that subject to conditions, comes with a 10 year exterior warranty.

FIXING SYSTEM



Concept drawing only. For more details, please refer to the Vitracore G2 Installation Manual.

MOORE THEOLOGICAL COLLEGE, NEWTOWN NSW

KUBIX APARTMENTS, WANTIRNA SOUTH, VIC

VERSION 3.3

FAIRVIEW™

DEFINING ARCHITECTURE SINCE 1963

AUSTRALIA / NEW ZEALAND / UNITED KINGDOM

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