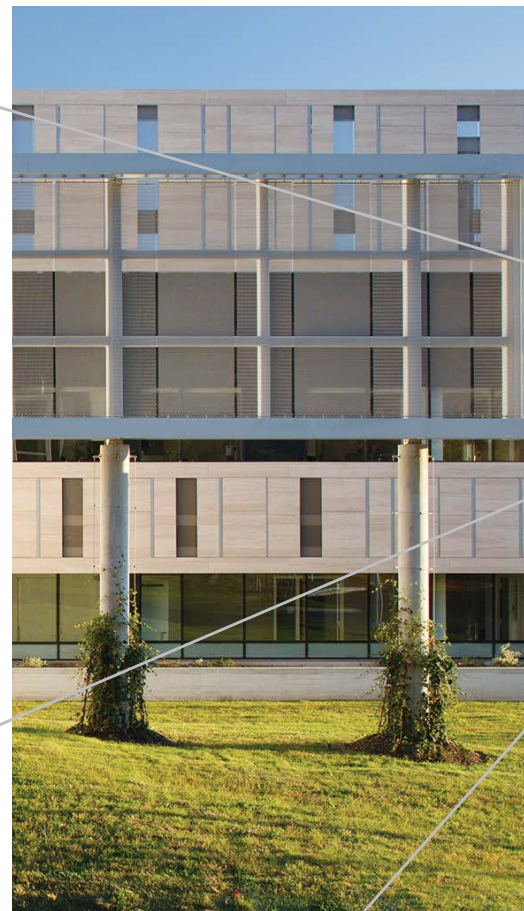




# vitrastone™

NATURAL STONE CLADDING SYSTEM / MANUFACTURED BY FAIRVIEW



## PRODUCT INTRODUCTION



# FAIRVIEW

DEFINING ARCHITECTURE SINCE 1963



[WWW.FV.COM.AU](http://WWW.FV.COM.AU)

# ABOUT



vitrastone™

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## PRODUCT DESCRIPTION

Vitrastone is a stone wall cladding system utilising a composite panel made by laminating a natural stone layer to an aluminium honeycomb substrate with aviation grade epoxies. Vitrastone is fabricated and then attached to the wall with simple aluminium extrusions.

Vitrastone can feature a large range of natural stone finishes, including granite, marble, limestone and sandstone. The natural stone composite panels are suitable for interior and exterior use, being highly weatherproof and suitable for high impact areas.



## ADVANTAGES

Why use Vitrastone over traditional solid (dimensional) stone?



### LIGHTWEIGHT

Vitrastone is only 1/5 of the weight of its equivalent in dimensional stone. This means that the product is much easier to handle and to ship, and entire wall framing can be substantially reduced.



### FLEXIBILITY

Vitrastone panels, using stone as a veneer over the honeycomb core are much more flexible than dimensional stone. As a result the panels are much less prone to fracturing and cracking and better able to withstand building movement and extreme weather events.



### WARRANTED INSTALLATION

Vitrastone offers far improved attachment over traditional solid stone. The solid stone anchoring system exposes the weakest properties of the stone, whereas the fixing systems offered with Vitrastone are rapid and align with common systems already used in Australia.



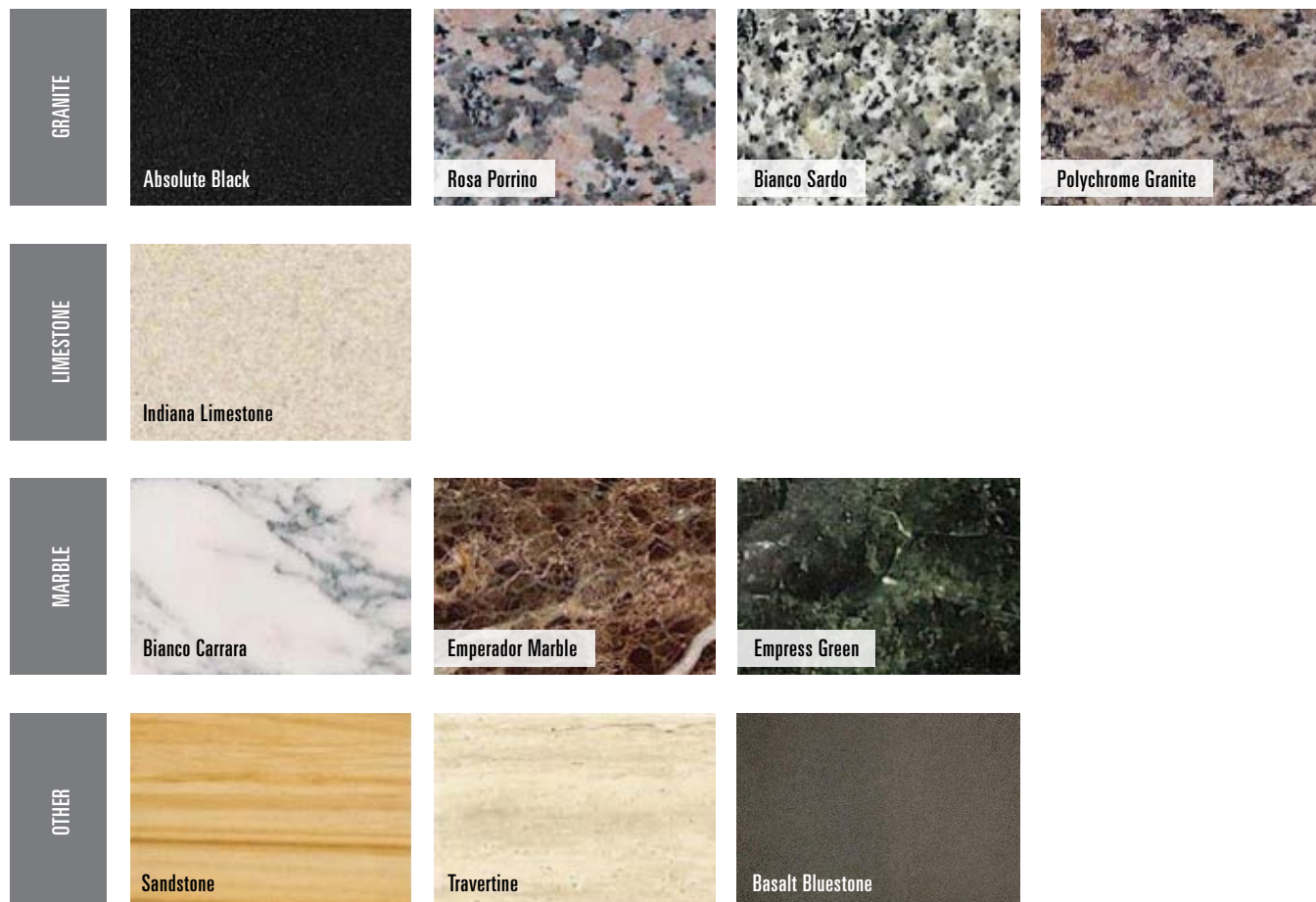
### DIMENSIONAL STABILITY

The thin stone found on Vitrastone panels lacks the torsional force of the thicker dimensional stone. This means the lightweight Vitrastone system doesn't experience the stability failure that occurs in dimensional stone

## FINISH OPTIONS

Fairview offer a wide range of igneous and non-igneous stone in the Vitrastone panels. When used for exterior applications, the stone can accommodate custom finishes and patterns, taking advantage of the different textures that can be present. There are various combinations of three dimensional patterns and carvings available, as well as traditional polished, honed, sandblasted, and other custom textures to make a custom facade feature.

Below is a selection of commonly chosen colours. If you have any particular finish or colouring in mind, please contact our sales team to discuss further.



Please note stone is a natural product. As a result, no two pieces are identical and may vary in markings, colour and texture. In some stones it is common to find spots, fossils or shelly formations, pit holes, open texture streaks, iron spots, and grain formation changes.



# TECHNICAL



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## MANUFACTURING QUALITY

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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 ISO9000 Quality Standards 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.

## WARRANTY

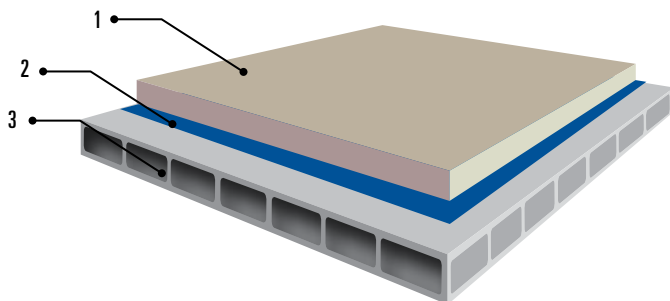
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The standard warranty is 10 years.



# PROPERTIES

## TYPICAL COMPOSITION



1. Natural Stone
2. Aviation Grade Epoxy
3. Vitracore Honeycomb Substrate

This combination results in a high impact strength, high flexural strength, lighter weight and easier to install panel.

## SKIN & CORE

Face Skin - 5mm Natural Stone

Core - 10mm Vitracore Honeycomb Panel

## DIMENSIONS

### STANDARD PANEL DIMENSION

1800mm x 1200mm

Panel sizes are dependent on the type of stone selected.

## WEIGHT

THICKNESS	WEIGHT (kg/m <sup>2</sup> )
21mm	23 (approx – depending on stone type)

# TECHNICAL DATA

NO.	ITEM	STANDARD	TESTED VALUE
1	Flat Bonding Strength	Average $\geq 1.0$ MPa; Minimum $\geq 0.6$ MPa	Average 1.31 MPa; Minimum 0.88 MPa
2	Flat Tensile Strength	$\geq 0.8$ MPa	0.91 MPa
3	Flat Tensile Modulus	$\geq 30$ MPa	70.7 MPa
4	Flat Shearing Strength	$\geq 0.5$ MPa	0.54 MPa
5	Flat Shearing Modulus	$\geq 4.0$ MPa	6.43 MPa
6	Bending Strength	$\geq 8.0$ MPa	41.0 MPa
7	Bending Rigidity	$\geq 1.0 \times 10^9$ N.mm <sup>2</sup>	$2.86 \times 10^9$ N.mm <sup>2</sup>
8	Shearing Rigidity	$\geq 1.0 \times 10^5$ N	$4.40 \times 10^5$ N
9	Climbing Drum Peel Strength	Average $\geq 50$ N.mm/mm; Minimum $\geq 40$ N.mm/mm	Average 9.1N.mm/mm; Minimum 42.4NN.mm/mm
10	Fasten Fitter Loading Capacity	$\geq 3.2$ kN	3.2 kN
11	Thermal Resistance	N/A	$0.016\text{m}^2\text{K/W}$



# FIXING



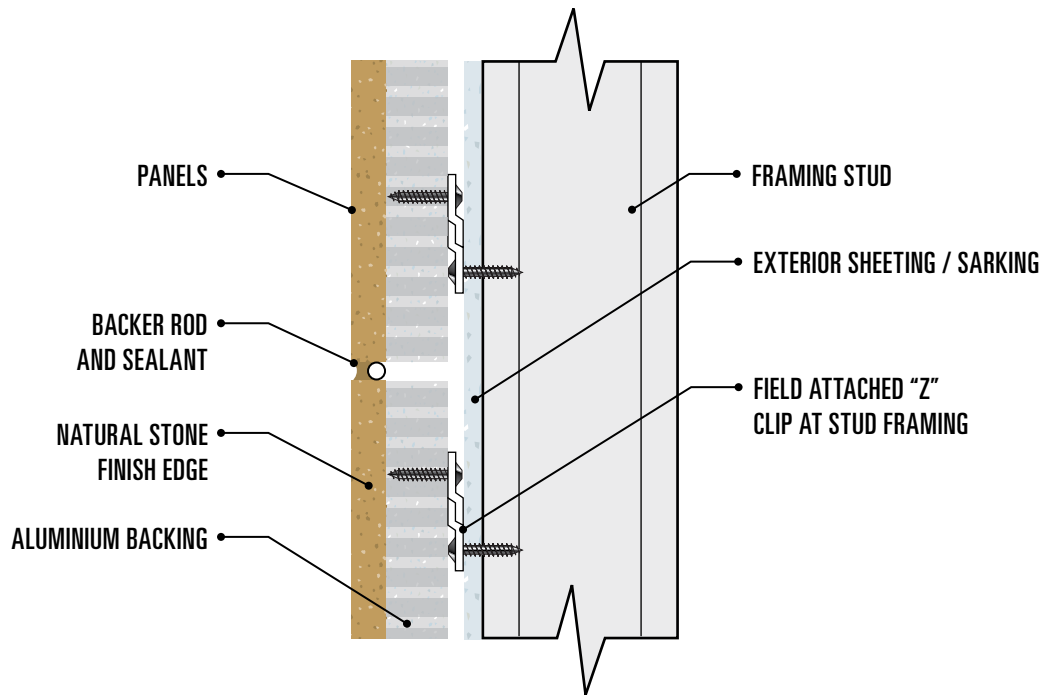
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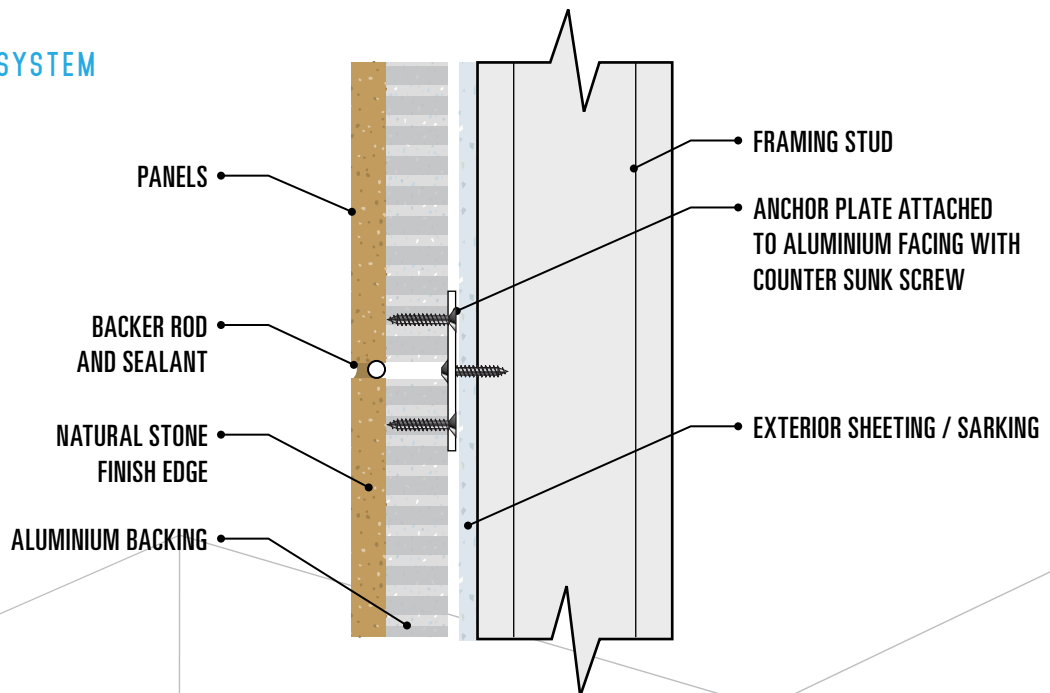
## FIXING SYSTEM

Below are typical details of the two most common installation systems

### Z CLIP SYSTEM



### ANCHOR PLATE SYSTEM





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## FAIRVIEW PRODUCT RANGE:



**vitracade™**

TERRACOTTA FAÇADE SYSTEMS / MANUFACTURED BY FAIRVIEW



**ceramapanel™**

COMPRESSED FIBRE CEMENT FAÇADE / MANUFACTURED BY FAIRVIEW



**vitranamel®**

VITREOUS ENAMEL PANEL / MANUFACTURED BY FAIRVIEW



**vitraART™**

CUSTOM GRAPHIC CLADDING / DEVELOPED BY FAIRVIEW



**vitrabond®**

ALUMINIUM COMPOSITE PANEL / MANUFACTURED BY FAIRVIEW



**vitracore G2®**

NON-COMBUSTIBLE COMPOSITE PANEL / MANUFACTURED BY FAIRVIEW



**vitrafix™**

VITRABOND FIXING ACCESSORIES / MANUFACTURED BY FAIRVIEW



**vitradual™**

NON-COMBUSTIBLE CASSETTE CLADDING / MANUFACTURED BY FAIRVIEW



INSULATED SANDWICH PANEL / SUPPLIED BY FAIRVIEW

**QbissOne**

NON-COMBUSTIBLE FAÇADE PANEL / SUPPLIED BY FAIRVIEW



TERRACOTTA FAÇADE TILES / SUPPLIED BY FAIRVIEW



Fibre cement facade materials

HIGH DENSITY FIBRE CEMENT / SUPPLIED BY FAIRVIEW



**FAIRVIEW**

DEFINING ARCHITECTURE SINCE 1963

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