vitrashield®

AS5113 COMPLIANT CLADDING SYSTEM / MANUFACTURED BY FAIRVIEW

# PRODUCT INFORMATION

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## ABOUT VITRASHIELD

Vitrashield® is a series of AS5113 classified wall systems offering industry leading fire performance combined with extreme corrosion resistance, excellence in long-term weathering, high impact resistance and simplicity of installation.

Vitrashield is the first cassette cladding system in Australia to achieve an EW classification through full-scale fire testing to AS5113 and is continuing to achieve further passes on a range of systems.

When combined with the system, the Vitrashield panel can shield combustible elements within the wall build-up whilst still achieving a complete pass to AS5113. This ability to provide high overall wall build-up flexibility, along with maintaining the same overall look as traditional aluminium panels, is especially suited to rectification works where combustible elements may already be present.

The Vitrashield external cladding system is a complete wall system as required by the AS5113 test, from internal plasterboard to the external cladding. The system provides an essential basis for designing a safe and compliant external wall.

While Fairview offers a selection of systems that have already achieved EW classification to suit a variety of wall requirements, we are also able to assist with testing, engineering and assessments to achieve the safest and simplest compliant solution on an individual project basis.

The Vitrashield panel is easily and accurately installed by using a pre-fabricated panel cassette over a top hat sub-structure with hidden mechanical fixings.

Vitrashield® is a registered trademark and has a patent pending.

## DOCUMENT TRACKING

| VERSION # | DATE | CHANGES |
|---|---|---|
| 1.0 | 03/08/20 | Initial Issue |

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## KEY FEATURES

| PRODUCT | VITRASHIELD |
|---|---|
| Product DNA | Range of AS5113 compliant systems |
| Finish | Vitrashield uses only the highly recognised Kynar 500® PVDF or FEVE paints known for their excellent durability, providing the optimum resistance to weather and industrial pollution. |
| Fixing System | A cassette style concealed fixing system which is the same to fabricate and install as traditional ACPs. |
| Application | Anywhere a CV3 method to compliance is required. |
| Warranty | 15-year warranty, subject to standard terms and conditions. |

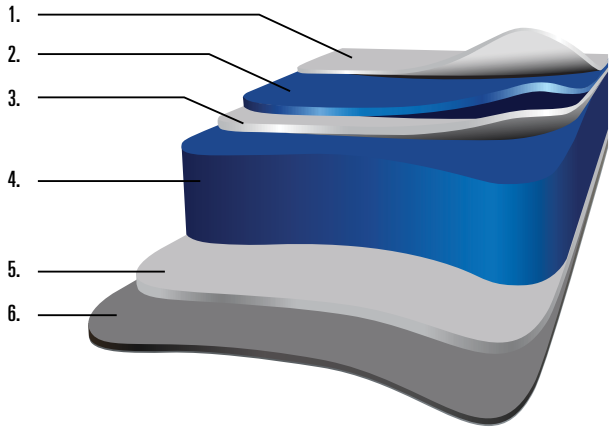
## PANEL INFORMATION

Vitrashield panel is a corrosion resistant, steel skinned composite panel. This unique solution allows traditional type installation as well as the temperature resistance required to pass the stringent AS5113 test.

Available in a range of sizes to suit various requirements, we also offer custom sizing where required.

## TYPICAL COMPOSITION

1. Protective film
2. PVDF Coating
3. 0.35mm BMT zinc/aluminium coated steel skin
4. Mineral compound core
5. 0.35mm BMT zinc/aluminium coated steel skin
6. Polyester Protective Coating




### DIMENSIONS

Thickness: 4mm
Weight: 10.2kg/m2

## PANEL SIZES

| WIDTH | LENGTH |
|---|---|
| 1250 | 3200 |
| | 4000 |
| 1570 | 3200 |
| | 4000 |

**CUSTOM SIZES ARE AVAILABLE, PLEASE SPEAK TO THE FAIRVIEW TEAM**

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# FINISH

Vitrashield uses only the highly recognised Kynar 500® PVDF or FEVE paints known for their excellent durability. These premium paints provide the ultimate resistance to weather and industrial pollution.

More than 50 years of South Florida Exposure Testing is continuing to confirm the superior chemical and physical properties of fluoropolymer coatings.

# COLOURS

## 3.1 SOLID COLOUR RANGE


VS1005 SNOW WHITE


VS9902 PURE WHITE


VS9702 BOLD CREAM


VS9304 COOL GREY


VS1270 MONUMENT GREY


VS1025 PEARL WHITE


VS9210 FROST WHITE


VS1310 CLASSIC BEIGE


VS9108 ELEGANT BROWN


VS1283 CULTURED GREY BROWN


VS1140 BRIGHT YELLOW


VS1190 BRIGHT ORANGE


VS1677 POPPY RED


VS1685 GALLANTRY RED


VS9130 ENIGMA BLACK


VS1590 ENERGY GREEN


VS1540 SPRING GREEN


VS1430 SKY BLUE


VS1460 MARINE BLUE

## 3.2 METALLIC COLOUR RANGE


VS9701 SILVER ICE METALLIC


VS9134 SMOKE SILVER METALLIC


VS4277 MASERATI GREY

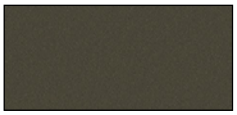

VS9137 DARK GREY METALLIC


VS5292 SATIN BLACK METALLIC


VS9205 CHAMPAGNE METALLIC


VS9308 BRONZE METALLIC


VS4344 MEDIUM BRONZE METALLIC


VS4370 SATIN BROWN METALLIC


VS4150 GOLD METALLIC


VS9809 COPPER METALLIC

# SYSTEMS

Vitrashield is a series of external wall cladding systems, tested and assessed as a complete wall build up.

## CUSTOM SYSTEM

A key focus of Vitrashield is support and assistance with testing, engineering and assessments to ensure every project is specific, safe and compliant. This product brochure contains some tested and compliant systems, suitable for a range of projects.

However, as every project is different, please contact the Fairview team to discuss project specific requirements and configurations.

The focus is beyond mere fire performance. There are many factors to be considered when designing external walls, including structural engineering, acoustics, weather proofing, insulation, etc.

The AS5113 test and system is a critical input into the design decision but does not supplant these requirements.

## SYSTEM 1001

1001 is the first Vitrashield system to be classified EW under AS5113, and the first cassette panel system to achieve this in Australia.

The system features a non-combustible sarking and a 6mm insulated wall wrap. The wall structure is a typical lightweight steel frame wall, glass wool insulation and standard plasterboard.

The panels are fixed in a classical cassette design onto steel tophats, which also act as a cavity barrier.

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## SYSTEM 1002

1002 is the second of the Vitrashield systems to be classified EW under AS5113 and has been designed particularly as a cost-effective option for façade remediation works.

The system contains a 70mm PIR insulation, meaning recladding projects with combustible insulation now have the option of leaving the insulation safely in place.

This minimises project timeframe and costs, and makes less impact on the building structure and owners. The wall structure is a lightweight steel frame wall, clad internally with standard plasterboard. Externally the wall features non-combustible sarking and a 6mm insulated wrap clad over with the Vitrashield panels.

Also incorporated is intumescent cavity barriers at floor levels.

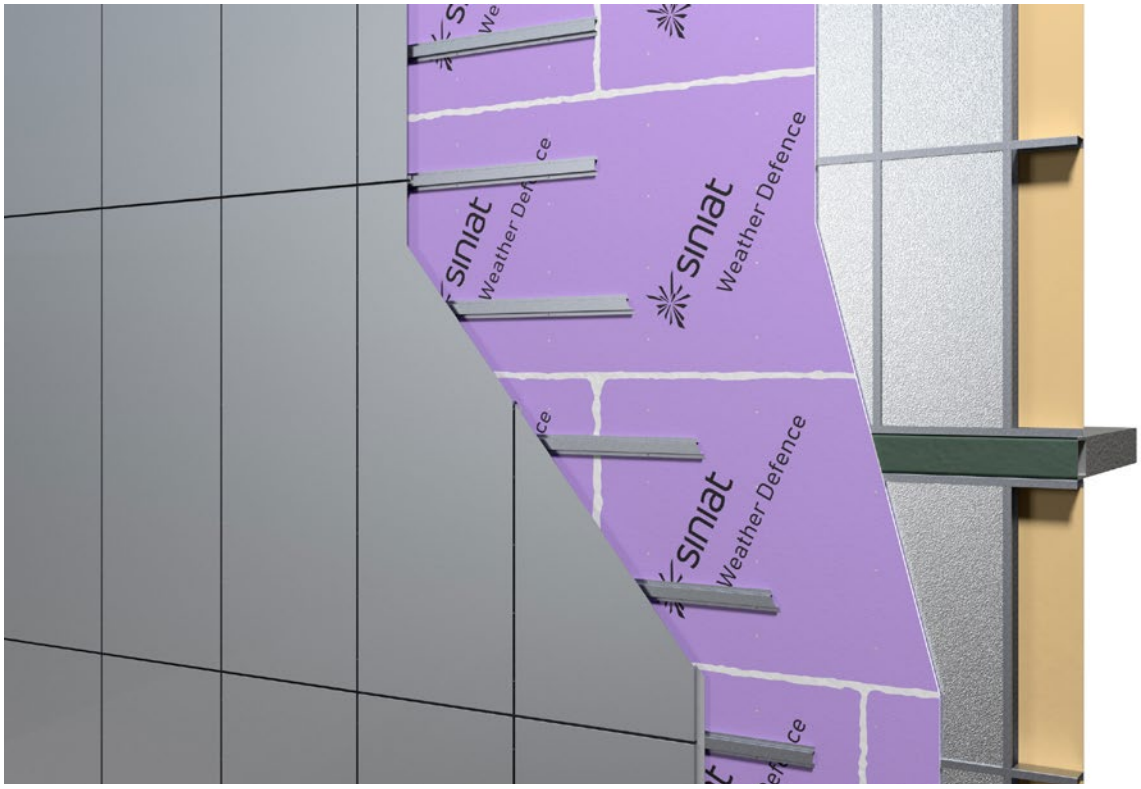
## SYSTEM 2001

2001 is the first of the Vitrashield systems to feature the Siniat® Weather Defence® exterior sheathing board.

Deemed non-combustible, the board is waterproof, durable and – significantly – breathable, helping to achieve the Condensation Management requirements of the 2019 BCA. Additionally, Weather Defence® is uniquely fast and easy to install.

The wall structure is again a typical lightweight steel frame wall, insulation and standard plasterboard. The panels are fixed in a classical cassette design onto steel tophats, which also act as a cavity barrier.

2001 has been tested with PIR insulation, again achieving a perfect reclad solution where other combustible wall components have been used behind the cladding. Using a non-combustible insulation is also not an issue.



## APPLICATION

Vitrashield is suitable for application on Type A, B, and C constructions including hospitals and mixed-use development. The 2019 BCA Verification method 3 under section C (fire performance) sets out the use of AS5113 passed systems in line with the performance requirements for CP1 and CP2.

## WARRANTY

Vitrashield is an incredibly durable material when used in the right application. Vitrashield includes a 15-year warranty, subject to standard terms and conditions.

## DISCLAIMER

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DEFINING ARCHITECTURE SINCE 1963

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