



PRODUCT

EnviroShield Performance™

Advanced laminated insulating glass – for high light & clarity with minimal heat

We respond well to open and inviting spaces with access to sunlight. Yet for many Australians, energy consumption is a major priority. That's why we designed our Viridian EnviroShield Performance™ range – so you don't have to compromise on either.

Creating an environment rich in natural light whilst dealing with the broader issues of energy efficiency has long been a challenge of building designers.

With the development of building code changes encouraging energy efficient design, this challenge has never been greater. High performance interlayers has enabled Viridian to counter these concerns, allowing the freedom to create visually appealing structures with maximum visible daylight and low-energy consumption.

EnviroShield Performance™ achieves the energy efficiency of tinted glass while maintaining the visual impact of clear glass – so you can enjoy the view while keeping your power bills down.

EnviroShield Performance™ ITO

Traditionally large areas of glass are desirable in building facades but can negatively affect a building's solar and thermal performance. The introduction of **EnviroShield Performance™** counter these concerns, allowing the freedom to create visually appealing and comfortable structures without sacrificing visible daylight.

EnviroShield Performance™ ITO is a laminated glass using a high performance solar control interlayer combined with a Low E coating, it is the highest performance single glazed offering from Viridian. The combination of high level solar control and thermal insulation in a laminated glass makes **EnviroShield Performance™** uniquely suited to Australasian environmental and design requirements.

The addition of coating technology combines high levels of solar control and thermal insulation in a laminated glass, without heavy tinting or reflective mirror-like coatings that reduce natural light.

Considerations

Solar control can be improved by combining **EnviroShield Performance™** with tinted glass and other products from the Viridian range. In addition, the broader aspects of design, colour, structural integrity, security and noise attenuation can be addressed.

Glass must be installed with Viridian product label facing to the exterior.

In 2021 the interlayer supply for the ITO option in our **EnviroShield Performance™** range was changed. For any warranty claims or panel replacements please discuss with your Account Manager or Customer Service before placing an order, and refer to a sample.

Features and Benefits

- High daylight transmission up to 75%.
- Reduce solar heat transmission.

- Better U-value than standard Glass.
- Reduces UV radiation by 99% reducing fading up to 8.5 times over normal glass.
- Thicker glass and interlayer combinations are available to achieve high noise reduction.
- Thicker interlayers are available for increased resistance to physical attack.
- **EnviroShield Performance™ ITO** is a laminated Grade A safety glass (AS/NZ2208).
- 5 years warranty from date of manufacture.

✓ Performance comparison

EnviroShield Performance™	VLT	U-Value	SHGC
ITO Clear	76	3.6	0.55
ITO Green	69	3.6	0.46
ITO Neutral	57	3.6	0.44
ITO Grey	35	3.6	0.36
ITO SuperBlue	34	3.5	0.32

*8.76mm glass thickness

Applications

- Windows
- Facades
- Overhead Glazing

Maximum Size

- 3660mm x 2440mm

How to Specify

- **Select glass name**
EnviroShield
Performance™ ITO
- **Select thickness - process**
8.76mm to 17.52mm
- **Select colour**
Refer to performance comparison table

EnviroShield Performance™ XIR

Maximum Daylight with minimum energy consumption, **EnviroShield Performance™ XIR** is a highly specialised glass product. **EnviroShield Performance™** is ideally used in all types of glass facades, glass roofing and basically anywhere where solar control is required without sacrificing natural daylight.

EnviroShield Performance™ XIR is a laminated glass using a high performance solar control interlayer. This interlayer is encapsulated in a laminated glass creating a natural coloured, energy efficient product with great solar control properties.

This product performance can be further enhanced when combined with a Low E coated glass such as **Evantage™**, **SolTech™** or **EnergyTech™** (see example on the performance comparison chart). In addition, the broader aspects of design, colour, structural integrity, security and noise attenuation can be addressed.

Considerations

- Solvent manufacturers' directions and warnings must be followed always and care should be taken to avoid contact with glazing sealants or other materials that may be affected by such. In no case should razor blades, scrapers, scourers or other metallic or abrasive objects be used on the product surface. Not suitable for exposed edges.
- Black edge sealant is applied to all edges.
- Glass must be installed with Viridian product label facing to the exterior.

Features and Benefits

- High daylight transmission up to 73%.
- Improved transparency on both interior and exterior surfaces compared to a coated product.

- Reduce solar heat transmission.
- Better U-Value than standard Glass.
- Reduces UV radiation by 99% reducing fading up to 8.5 times over normal glass.
- Thicker glass and interlayer combinations are available to achieve high noise reduction.
- Thicker interlayers are available for increased resistance to physical attack.
- **EnviroShield Performance™ XIR** is a laminated Grade A safety glass (AS/NZ2208).
- 5 years warranty from date of manufacture.

✓ Performance comparison

EnviroShield Performance™	VLt	U-Value	SHGC
XIR Clear 71	73	5.7	0.51
XIR Clear 70	71	5.5	0.50
XIR EnergyTech (#4)	65	3.5	0.42

*8.76mm glass thickness

Applications

- Windows
- Facades
- Overhead Glazing

Maximum Size

- Processed to size only
Maximum width: 1980mm

How to Specify

- **Select glass name**
EnviroShield Performance XIR™
- **Select thickness - process**
8.76mm to 17.52mm – Laminated
7.52mm to 21.52mm – Toughened/Laminate
- **Select your performance**
Refer to performance data pages. For other performance levels, contact Viridian.

Viridian EnviroShield Performance™ is a trademark of Viridian Glass