



CELSIUS FACTS

STAY COOLER IN SUMMER - WARMER IN WINTER

CELSIUS One™
PERFORMANCE GLASS

With its blue tint and enhanced abilities, Celsius One sets a new standard in performance glazing

Heat Reflection **78%**

U-value **1.0**

UV Protection **94%**

Easy Clean

Visible Light Transmission **38%**

CELSIUS Elite™
PERFORMANCE GLASS

With its blue tint and premium abilities, Celsius Elite is our ultimate performance glazing

Heat Reflection **78%**

U-value **0.9**

UV Protection **94%**

Easy Clean

Visible Light Transmission **34%**

CELSIUS clear™
PERFORMANCE GLASS

A neutral tinted glass ideally suited for side frames and certain roof installations

Heat Reflection **58%**

U-value **1.0**

UV Protection **73%**

Easy Clean

Visible Light Transmission **61%**

	U-Value	Solar Factor	Visible Light Transmission	Heat Reflection	UV Protection	Clean option
Celsius One	1.0	22%	38%	78%	94%	Easy Clean
Celsius Elite	0.9	22%	34%	78%	94%	Easy Clean
Celsius Clear	1.0	42%	61%	58%	73%	Easy Clean
Pilkington Activ Blue	2.8	45%	53%	55%	Not Specified	Self Clean
Pilkington Activ Blue with (LowE) Innerpane	1.5	41%	49%	59%	Not Specified	Self Clean
Pilkington Activ Blue with (softcoat LowE) Innerpane	1.1	41%	49%	59%	Not Specified	Self Clean

The figures shown above are for guide purposes only. Slight variations may occur due to glass specification, time of year, manufacturing tolerance, point of manufacture and type of instrumentation used.

U-Value - used to measure internal heat loss during cooler periods. The lower the number, the greater the insulation.

Solar Factor - the percentage of total solar energy (or heat from the sun) able to pass through the glass.

Visible Light Transmittance - the percentage of visible light directly transmitted through the glass.

UV Protection - Sun damaging UV rays are dramatically reduced, allowing greater protection of your furniture and fabrics.



RICHMOND OAK

Differences between Self-Clean and Easy Clean

	Self-Cleaning Glass (Titanium Dioxide Coatings)	Easy Clean (ClearShield Non-Stick Surface Technology)
Is the technology available today?	Yes Several glass manufacturers have 'self-cleaning' titanium dioxide coatings in selected countries.	Yes Easy Clean is available worldwide.
Hydrophobic or Hydrophilic glass?	Self-Cleaning is hydrophilic. It attracts water and causes it to sheet off the surface preventing droplet formation. This ensures loose particles (dust/dirt) are washed away easily during normal rainfall. It is also photocatalytic - UV radiation causes the coating to oxidise dirt & organic deposits loosening them from the glass surface.	Easy Clean is hydrophobic. Untreated glass attracts water and holds moisture which over time starts the corrosion process. Moisture damages and obscures the glass. The hydrophobic Easy Clean system prevents the retention of water in the glass pores and prevents contamination of both organic & inorganic. It also protects against corrosion, staining and discolouration of the glass.
Does the technology chemically bond to the surface of the glass?	No	Yes Easy Clean is applied during manufacturing stage and left to chemically bond, becoming an integral part of the glass surface.
Is the technology effective for both organic and inorganic contamination?	No Technical information specifies Self Clean removes only organic dirt.	Yes Easy Clean protects against bonding of organic and inorganic contaminants, therefore making it easier to clean resisting staining and discolouration.
Does the technology provide protection during construction?	No Manufacturers advise protecting against the glass during construction to avoid damaging the coating.	Yes Leaving the excess polymer on the surface of the glass provides an extra protection against contaminants during construction.
Is the technology compatible with silicone sealants?	No	Yes There have been many approvals obtained from sealant manufacturers for product compatibility with Easy Clean glass.
Does the technology perform in all types of environments?	No Manufacturers in house tests have mirrored real life experience but there is not enough information to date to draw a conclusion.	Yes Easy Clean has performed successfully under many types of environments over the past 20 years.
Has the technology been proven in the field?	Limited Isolated field trials in a restricted environment.	Yes Guidelines for the durability and confirmation of performance are based on 20 years of successful field experience.
Aftercare required?	Yes Requires cleaning if environmental conditions are not ideal.	Yes Unique and complete system for maintenance of glass to ensure maximum performance.
Other	Very susceptible to construction contamination. Does not remove inorganic contaminants. No Silicone sealants or oils must be used with the system. Cannot be applied on site - therefore any damage to the coating and glass must be replaced	UV Stable. Does not migrate onto other surfaces. Does not bond to other surfaces than glass.