Protecting your coastal investment and lifestyle

As severe weather events and cyclones become more frequent – even reaching areas once considered low-risk, like the southern coastal regions of Western Australia – homeowners are rethinking what it means to be storm-ready.

While building codes have improved to ensure structural resilience, standard glass often remains a weak point. Cyclonic Glass – StormShield® and E-zone® Glass by Glasshape – is designed to provide an added layer of protection where it's needed most, helping to safeguard your home against high winds, flying debris, and pressure breaches that can cause catastrophic damage.

Standard building codes may not be enough

While modern construction design codes and standards focus on structural integrity such as your roof, they may not fully protect your home from the destructive forces of extreme storms. A broken window or breach in the building envelope during a storm can lead to widespread damage – and in some cases, total loss of the property.

This is especially important for:

- Homes that may be left unattended for periods of time
- High-value properties or those with significant personal investment

Cyclone-resistant glass offers peace of mind

Unlike standard laminated glass, cyclone-resistant glass is designed to withstand high winds and flying debris, helping to maintain the structural integrity of your home. It adds a crucial layer of protection, reducing the risk of breakage that can lead to internal pressure build-up and catastrophic damage.

Whether you live in a coastal home or manage it remotely, installing or upgrading to cyclone-resistant glass ensures your property is better protected – giving you lasting peace of mind.

Introducing StormShield®

StormShield® is the thinnest, lightest and strongest cyclone-rated glass in most common framing systems for Western Australia, offering a certified glazing solution specifically designed to withstand extreme wind speeds and flying debris – ensuring superior protection for your family and property during severe weather and cyclones. ***View the StormShield® range and specifications overleaf.***

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Variant	Thickness mm	Wind Region	Visible Light			Solar Energy		Thermal				Noise
			Trans. %	Reflect Out %	Reflect In %	Trans. %	Refl. %	SC	SHGC	U Value Summer (W/m2k)	U Value Winter (W/m2k)	Sound Reduction Rw dB
StormShield® – Impact up to 30m/s – Region C – AS/NZS 1170 2 2021												
Clear	11.4	C	86	8	8	68	7	0.87	0.75	4.77	5.22	35
	13.4	C	85	8	8	65	7	0.85	0.74	4.72	5.17	36
Grey	11.4	C	41	5	5	42	5	0.69	0.60	4.77	5.22	35
	13.4	C	40	5	5	41	5	0.68	0.59	4.72	5.17	36
Obscure Arctic	11.4	C	66	6	6	51	6	0.75	0.65	4.72	5.20	35
	13.4	C	66	6	6	49	5	0.74	0.64	4.68	5.15	36
StormShield® Ultra – Impact up to 39m/s – Region C & D – AS/NZS 1170 2 2021												
Clear	12.4	C & D	86	8	8	67	7	0.86	0.74	4.68	5.13	35
	14.4	C & D	85	8	8	64	7	0.84	0.73	4.64	5.08	36
	16.4	C & D	84	8	8	62	6	0.82	0.71	4.60	5.02	37
	18.4	C & D	84	8	8	60	6	0.81	0.70	4.56	4.98	38
Grey	12.4	C & D	41	5	5	42	5	0.69	0.60	4.68	5.13	35
	14.4	C & D	40	5	5	40	5	0.59	0.59	4.64	5.08	36
	16.4	C & D	40	5	5	38	5	0.58	0.58	4.60	5.02	37
	18.4	C & D	40	5	5	37	5	0.57	0.57	4.56	4.98	38
Obscure Arctic	12.4	C & D	66	6	6	50	5	0.75	0.65	4.64	5.10	35
	14.4	C & D	65	6	6	48	5	0.73	0.64	4.60	5.05	36
	16.4	C & D	65	6	6	46	5	0.72	0.63	4.56	5.00	37
	18.4	C & D	64	6	6	44	5	0.71	0.61	4.51	4.95	38
StormShield® Extreme – Impact up to 44m/s – Region C & D – AS/NZS 1170 2 2021												
Clear	14.1	C & D	85	8	8	65	7	0.85	0.73	4.53	4.95	35
	16.1	C & D	84	8	8	63	7	0.83	0.72	4.49	4.90	36
	18.1	C & D	83	8	8	60	6	0.81	0.70	4.45	4.85	37
	20.1	C & D	83	8	8	58	6	0.80	0.69	4.41	4.81	38
Grey	14.1	C & D	40	5	5	42	5	0.69	0.59	4.53	4.95	35
	16.1	C & D	40	5	5	39	5	0.67	0.58	4.49	4.90	36
	18.1	C & D	39	5	5	37	5	0.66	0.57	4.45	4.85	37
	20.1	C & D	39	5	5	36	5	0.65	0.56	4.41	4.81	38
Obscure Arctic	14.1	C & D	66	6	6	49	5	0.74	0.65	4.48	4.92	35
	16.1	C & D	65	6	6	47	5	0.73	0.63	4.44	4.87	36
	18.1	C & D	64	6	6	45	5	0.72	0.62	4.40	4.82	37
	20.1	C & D	64	6	6	43	5	0.70	0.61	4.36	4.78	38

Conditions and calculation of the above optical and solar performance data are based on ASHRAE Standard. Performance data is based on representative value from software tabulation and information available at the time of preparation of this document which is subject to changes without notice. Actual value may vary slightly due to variations in the production process. Other glass manufacturers and coaters may use different instruments and measurement techniques. Therefore, reported performance values may vary on identical products by others. STC Ratings are estimated from test results of similar like product build ups.

Understanding this information

Visible Light Transmission	The percentage of visible light that passes directly through the glass. The higher the value, the more daylight gets through.
Visible Light Reflect Out / In	The percentage of visible light reflected toward the exterior / interior.
Solar Energy Transmission	The percentage of normal incident visible light and solar energy that passes directly through the glazing.
Solar Energy Reflection	The percentage of normal incident visible light and solar energy reflected toward the exterior.
Shading Coefficient (SC)	Shading coefficient is a measure of the thermal performance of a glass unit. It is the ratio of solar gain passing through a glass unit to the solar energy which passes through 3mm Clear Float Glass.
SHGC – Solar Heat Gain Coefficient	The proportion of total solar radiation that is transferred through glass in normal circumstances. A lower number indicates better performance.
U Value Summer / Winter	The measure of the rate of heat gain or loss through glazing caused by environmental differences between indoor and outdoor air. The lower the value the better the insulation.
Sound Reduction	Used to measure the effectiveness of the glass as a noise insulator. Measured in decibels (db) the higher the RW value, the greater the reduction in noise.