

PROTECTION

Typhoon Glass StormShield® & E-zone®



STORMSHIELD®

StormShield® is a laminated safety glass specially formulated to resist excessive wind speeds and penetration from flying debris present during cyclones, hurricanes or typhoons. The glass is able to deflect up to 5 times its normal rate before breaking. Even when breakage of the glass occurs, glass pieces will remain adhered to the interlayer. With that, it maintains a water-tight environment even during extreme storms.

TESTING & CERTIFICATION

StormShield® was proven to be able to resist impact from a 4kg piece of timber (100mm x 50mm cross section) at over 44m/sec (160km/h) travelling lengthways without perforating the interlayer. It has been subjected to a series of hydrostatic pressure tests to withstand rising

floodwaters prevalent in cyclonic weathers. It is ideal for shop-fronts, government buildings, and places that need to remain habitable immediately after a storm. The 10mm thick StormShield® has also withstood extreme test pressures of more than 12kPa, which equates to wind gusts in excess of 500km/h.

PRODUCT CERTIFICATIONS:

- AS1170.2:2011 (Cyclone Impact Resistance) • AS4040.2:1992
- AS4040.3:1992 (Static and Cyclic Wind loading) • AS/NZS2208:1996
- AS1288:2006 (Glass in Buildings)

E-ZONE®

E-zone® is the premium variation of typhoon glass that comes with SSG® Low Emissivity glass for thermal insulation for a well protected environment during extreme storms.

PRODUCT FEATURES

STORM PROTECTION

StormShield® and E-zone® are designed for maximum glazing protection from strong winds and flying debris during extreme storms, safeguarding lives and properties.

ACOUSTIC BARRIER

StormShield® and E-zone® have varying sound transmission control values between 35 and 40, making them a good building material for noise reduction.

ULTRAVIOLET SCREENING

StormShield® and E-zone® block out 99% of the ultraviolet rays, reducing the fading of curtains and items placed near the windows.

USES AND APPLICATIONS

- Government and high security buildings
- Hotels and resorts in coastal areas
- Residences and commercial buildings

APPLICABILITY

StormShield® and E-zone® must be fully glazed on all four sides with sufficient edge cover. It is recommended for use with our approved list of sealants.

SPECIFICATIONS

Production size for this product varies. Get in touch with us for more information!

Performance Information

		Appearance	Thickness (mm)	Transmission (%) VisibleLight	Shading Coefficient	U-Value (W/m²K)
Gen#2 StormShield AS/NZS1170.2:2011 Region C, Impact at 30m/s	StormShield®	Clear	11.4, 13.4, 15.4, 17.4	83-87	0.77-0.85	5.28-5.46
		Grey		39-42	0.61-0.67	5.28-5.46
		Obscure Artic		66	0.65-0.74	5.37-5.46
	E-zone®	Neutral		57-59	0.55-0.59	3.34-3.42
		Grey		38-39	0.52-0.59	3.34-3.42
Gen#2 StormShield AS/NZS1170.2:2011 Region D, Impact at 39m/s	StormShield®	Clear	12.4, 14.4, 16.4, 18.4	83-87	0.77-0.85	5.22-5.40
		Grey		39-42	0.61-0.67	5.22-5.40
		Obscure Artic		66	0.65-0.74	5.31-5.40
	E-zone®	Neutral		57-59	0.55-0.59	3.28-3.36
		Grey		38-39	0.52-0.59	3.28-3.36
Gen#1 StormShield AS/NZS1170.2:2002	StormShield®	Clear	8, 10, 12, 14, 16	83-88	0.77-0.89	5.28-5.52
		Grey	8, 10, 12	41-42	0.65-0.70	5.40-5.52
		Obscure Artic	8, 10	66	0.74-0.77	5.46-5.52
	E-zone®	Neutral	8, 10, 12, 14	57-59	0.55-0.59	3.46-3.54
		Grey	8, 10, 12, 14	38-39	0.52-0.59	3.44-3.54

Note: All specifications and data in this table are estimates and will vary depending on the final glass configuration and frame system.