

**Don't leave it  
too late ...**



to have the greatest leap forward in

**debris impact  
protection.**

**ClearShield**  
STAINLESS STEEL SECURITY

[www.clearshield.com.au](http://www.clearshield.com.au)

For the ultimate in cyclone protection,  
insist on ...

# Cyclone-Shield

**Cyclones are a fact of life for people living up north. In fact, many experts believe their frequency and intensity will only increase as sea temperatures continue to rise.**

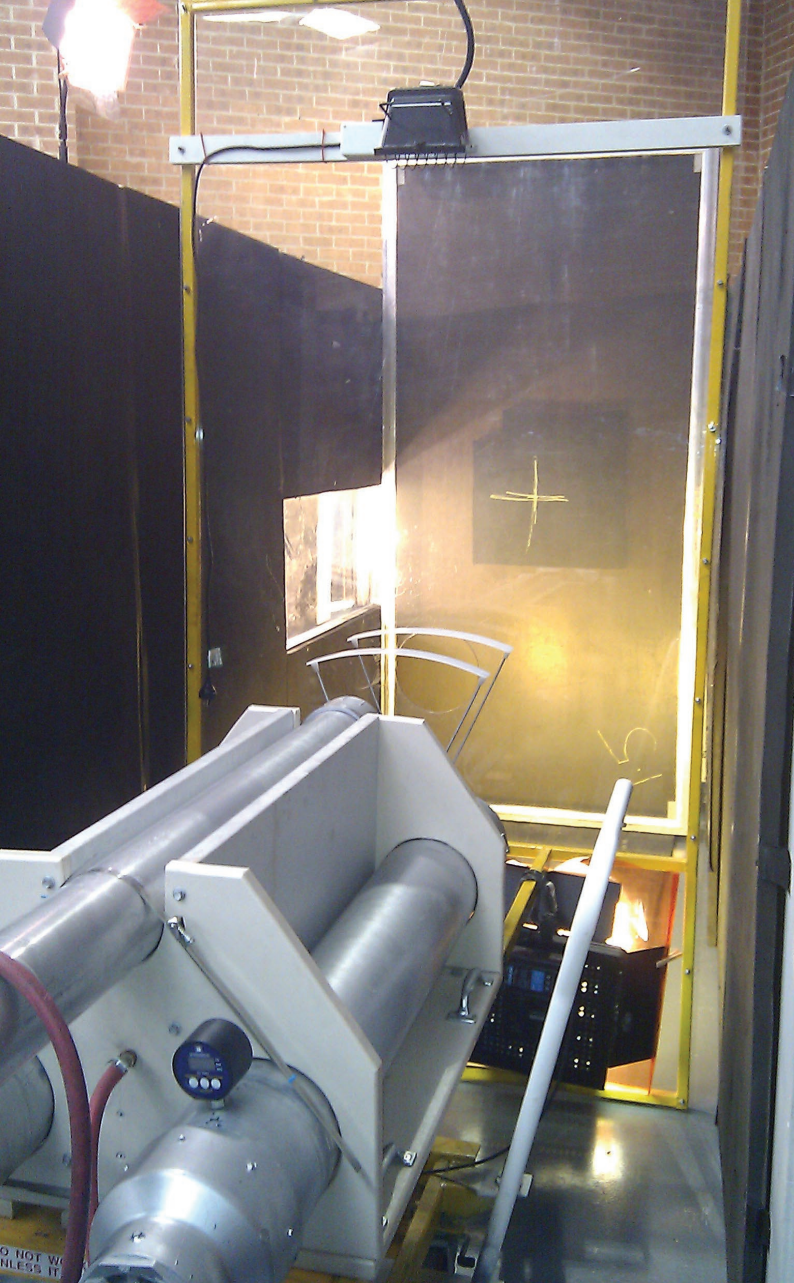
While the need for cyclone protection has never been stronger, the good news is there's nothing better than Clearshield's advanced technology Cyclone Screens.

Tested to the highest level of compliance in AS1170.2011, Clearshield's Cyclone-Shield Tornado Screen withstands the large missile impact test at 44m/s or 158km/h. This incredible feat of engineering demonstrates a screen that can resist a single impact measuring over 4000 joules of impact energy! This test is equivalent to a piece of wood weighing 4kg being propelled by a 395km/h wind gust!

Importantly, all Cyclone-Shield products have undergone extensive independent testing to guarantee compliance to the stringent requirements imposed under AS1170.2.2011. What's more, all sizes of our commercially available products having undergone compliance certification.

Clearshield's Cyclone-Shield is also a stand-alone fully compliant screen solution without the need for expensive additional impact glass to be fully compliant to the requirements of the new standard.

**The strongest wind gust recorded on the Australian mainland is 267 km/h. The gust was recorded during cyclone Vance at 11:50 am (WST) 22 March 1999 at Learmonth Meteorological Office, 35km south of Exmouth.**



## **We've put Cyclone-Shield through the toughest of tests**

**Cyclonic debris screens are tested to meet the stringent Australian standard and are required to withstand the impact of a 4kg piece of hardwood travelling at speeds of up to 156km/h! This equates to 4000 joules of impact energy resistance.**

Unlike some competitors, Clearshield has tested all commercially available sizes of Cyclone-Shield to meet these requirements with impacts both in the centre and edge of the screen material.



Under the Building Code of Australia, there are differing levels of product performance requirements depending on the geographical location of the application. That's why Clearshield has developed three different models of the Cyclone-Shield product, so wherever you're living you're protected from whatever storm Mother Nature wants to throw at you.

## Cyclone Screen

Designed for the application of **Basic debris protection**

- 0.8mm thick perforated Stainless Steel sheet
- T6 Hardened aluminium framing
- 'Large Missile' Impact resistance of up to 20m/s
- '8mm Ballistic' Impact resistance of up to 32m/s

## Hurricane Screen




Designed for the application of **Medium to Heavy debris protection**

- 1.5mm thick perforated Stainless Steel sheet
- T6 Hardened aluminium framing
- Clearshield 'Energy Absorbing Frame' design
- 'Large Missile' Impact resistance of up to 36m/s
- '8mm Ballistic' Impact resistance of up to 44m/s

## Tornado Screen

Designed for the application of **Extreme debris protection**

- Reinforced perforated web design 1.5mm thick perforated Stainless Steel sheet
- T6 Hardened aluminium framing
- Clearshield 'Energy Absorbing Frame' design
- 'Large Missile' Impact resistance of up to 44m/s
- '8mm Ballistic' Impact resistance of up to 44m/s
















-  Cyclone Screen
-  Hurricane Screen
-  Tornado Screen
















*POE = Probability of exceedence*

*RWG = Regional Wind Gust in m/s*

*Impact Speed = Large Missile Impact Speed in m/s*

Find the Cyclone Screen that's right for your needs and location.

REGION C			
POE	RWG	RWG inc .05 Factor	Impact Speed
V1	23	24.2	9.7 
V5	33	34.7	13.9 
V10	39	41.0	16.4 
V20	45	47.3	18.9 
V25	47	49.4	19.7 
V50	52	54.6	21.8 
V100	56	58.8	23.5 
V200	61	64.1	25.6 
V250	62	65.1	26.0 
V500	66	69.3	27.7 
V1000	70	73.5	29.4 
V2000	73	76.7	30.7 
V2500	74	77.7	31.1 
V5000	78	81.9	32.8 
V10000	81	85.1	34.0 

REGION D			
POE	RWG	RWG inc 0.1 Factor	Impact Speed
V1	23	25.3	10.1 
V5	35	38.5	15.4 
V10	43	47.3	18.9 
V20	51	56.1	22.4 
V25	53	58.3	23.3 
V50	60	66.0	26.4 
V100	66	72.6	29.0 
V200	72	79.2	31.7 
V250	74	81.4	32.6 
V500	80	88.0	35.2 
V1000	85	93.5	37.4 
V2000	90	99.0	39.6 
V2500	91	100.1	40.0 
V5000	95	104.5	41.8 
V10000	99	108.9	43.6 

# Our new energy absorbing frame gives designers and architects a distinct advantage

Clearshield's latest innovation is the new Clearshield 'Energy Absorbing Frame'.

This latest invention was born from extensive testing of screen products that simply could not meet the new increased requirements of AS1170.2011 for cyclonic debris screening.

The heart of this innovative design lies within the Clearshield 'Energy Tube' device that is securely housed inside the specially designed mount frame. The tube is manufactured from flexible Santoprene material which absorbs up to 4000 joules of impact energy when the screen is struck with extreme forces.

**This test is equivalent to a piece of wood weighing 4kg being propelled by a 395km/h wind gust!**

Clearshield's latest innovation is in keeping with the traditions of Clearshield, which is known for both incredible strength and good looks. The frame gives designers and applicators a distinct advantage in aesthetic design by reducing the distance that the screen needs to be from the glass surface of the window to prevent breakage of the glass.

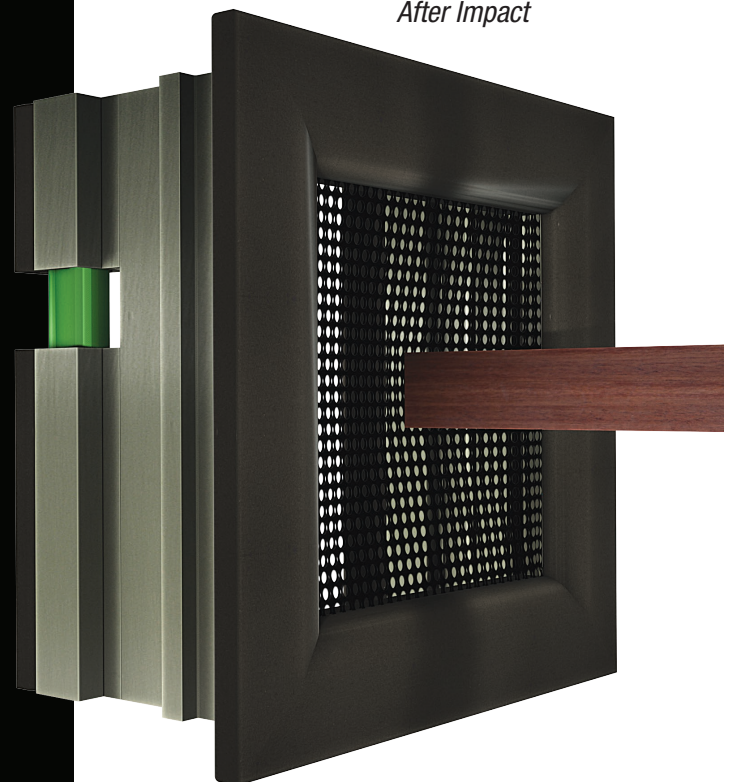
Our unique Cyclone-Shields are available in various models to suit the level of performance required for the geographical location of installation. From the base line Cyclone Screen up to the incredible Tornado Screen!


This unique design is currently 'Patent Pending' in Australia and the United States.

*Before Impact*



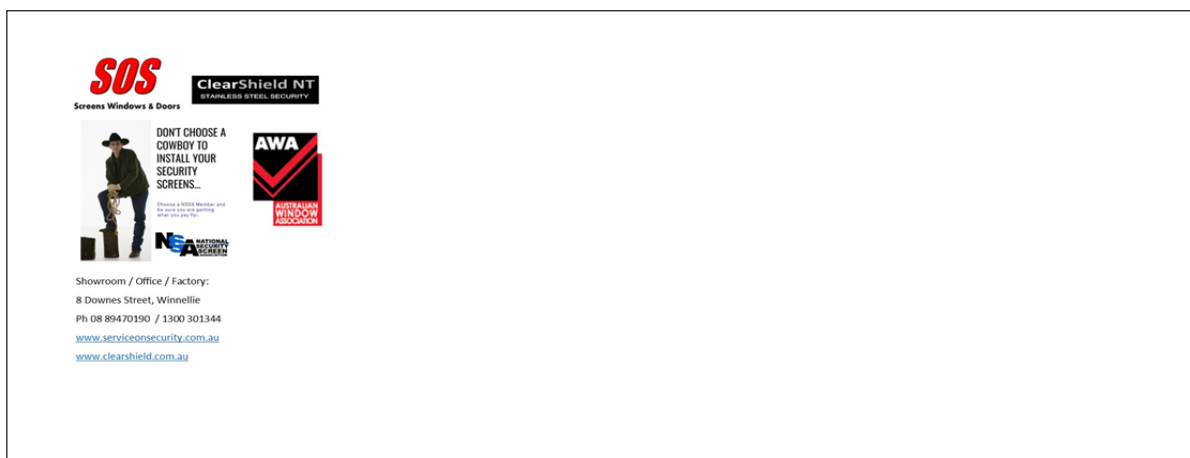
*After Impact*





If something like this ever comes close to you, it's reassuring to know that nothing comes close to ...

## Clearshield's high performance Cyclone-Shield.



**SOS** Screens Windows & Doors

**ClearShield NT**  
STAINLESS STEEL SECURITY

**AWA**  
AUSTRALIAN WINDOW ASSOCIATION

**NSA**  
NATIONAL SECURITY ASSOCIATION

DON'T CHOOSE A COWBOY TO INSTALL YOUR SECURITY SCREENS...

Check a NSA Member and be sure you are getting what you pay for!

Showroom / Office / Factory:  
8 Downes Street, Winnellie  
Ph 08 89470190 / 1300 301344  
[www.serviceonsecurity.com.au](http://www.serviceonsecurity.com.au)  
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