



Designed to protect



COMMERCIAL



Why specify Crimsafe?

At Crimsafe, we're not just meeting Australian Standards, we're setting the standard. Crimsafe has features that are superior to those of any competing product on the market.

Tensile-Tuff® mesh

Crimsafe's Tensile-Tuff® mesh provides a wide range of features that make it suitable for almost any application.

Wire: 0.9mm diameter, 304 grade high tensile stainless steel, 800 + 40 Mpa
26% thicker on the cross section than woven mesh products using 0.8mm wire

Mesh: Plain weave, 10 count mesh i.e. 10 strands on the weft and 10 strands on the warp per square inch/ 25.4mm² of mesh
Woven to Standards ISO 9044/ ASTM E2016:06

Apertures: 1.5mm x 1.5mm

Open area: 41.6%

Extrusion

- Extruded aluminium alloy 6063-T6

Clamping system

- Tamper-resistant screws, perimeter Screw-Clamp™ system
- Security-head screws penetrate the clamp, mesh and into the screen frame
- Screws spaced every 125mm, 62.5mm or 25mm staggered (Regular, Ultimate or Commercial systems respectively)

Installation

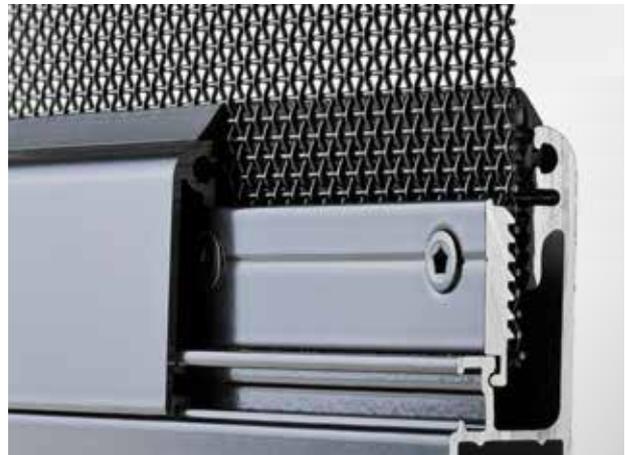
- Screens fitted as per AS 5040-2003 and the Crimsafe Installation Manual, using Crimsafe 410 stainless steel tamper resistant security head installation screws

Surface coatings

- Mesh and extrusion - high durability powder coat
- Powder coat application as per AS 4506:2005 Metal Finishing for thermoset powder coatings

Emergency Exit

- Crimsafe Safe-S-Cape® for emergency exit windows and doors
- Keyless exit system for ease of use, without compromising security requirements



Ultimate good looks

Crimsafe Ultimate is the next generation in stainless steel security.

- 40% stronger than Crimsafe Regular
- Withstands single impact of 700J – seven times more than the impact required by Australian Standards
- Tamper-resistant screws spaced every 62.5mm
- Unique clip-on cover provides smooth aesthetic and protects screws from tampering and corrosion
- Greater strength allows wide spans



Commercial-grade strength

For high-risk environments requiring exceptional strength, Crimsafe commercial-grade is unmatched in the industry:

- Tamper-resistant screws spaced every 25mm
- Screws in a staggered formation
- 60% thicker aluminium frame than Crimsafe Regular
- Withstands single impact of 1200J – 12 times more than the impact required by Australian Standards

Crimsafe outperforms the rest

Crimsafe goes above and beyond to set the highest standard for security screens in Australia, passing and exceeding all relevant standards and industry benchmarks.



Australian Standard 5039-2008

- Dynamic Impact Test
- Jemmy Test
- Knife Shear Test
- Shear Test
- Pull Test
- Probe Test



Cyclone Debris Protection

(AS 1170.2:2011)

Test conducted at James Cook University and Azuma Design (NATA approved). Crimsafe has tested a range of products that meet cyclonic conditions in Regions C and D

- Up to 44 m/s
- Pressure and fatigue tests



Fire protection

Crimsafe is commonly used as an alternative solution to drenching systems and fire shutters to protect buildings in close proximity to bushfire prone areas

- Patented Fire-Tuff® technology
- Fire attenuation rating 59%
- Ember and debris protection
- Compliant to AS 959-2009
- BAL-FZ on windows with FRL $\geq 30/30/30$



Corrosion resistance

Crimsafe withstands tough environmental conditions

Salt Spray Test (AS 2331:3.1)

- 10,000 hours (Tensile-Tuff® mesh)
- 1,000 hours (Crimsafe security screens)

Prohesion Accelerated Test (ATSM G85)

- 3,000 hours (Crimsafe security screens)



Balustrade Testing (AS/NZS 1170-2002)

Crimsafe screens can be utilised as infill panels in balustrade and enclosure applications

- 1.4 tonne type C5 (areas susceptible to overcrowding)
- Exceeds standard by three times, load tested to 4.2 tonnes



Energy Efficiency

Crimsafe improves the energy rating of glass windows and doors, thus improving the energy efficiency of the property

- Solar heat gain reduction up to 53%
- Filters up to 62% of UV radiation
- WERS rated up to 4.5 stars cooling*
- WERS rated up to 3 stars heating*

* Refer table below

| Window ID | Glazing | Cooling Stars | Heating Stars | % | % | Total Window System Values - WERS | | | |
|--|---------------------|---------------|---------------|-----|-----|-----------------------------------|-------|------|----------|
| | | | | | | Uw | SHGCw | Tvw | Air Inf. |
| WERS Generic Standard Industry Typical Aluminium Window - Single Glazed with Crimsafe Security Screen on Exterior | | | | | | | | | |
| CRS-001-01 | 3Clr | ★★★★ | ★★☆ | 46% | 5% | 5.7 | 0.36 | 0.32 | 5.00 |
| CRS-001-02 | 6.38 LE | ★★★★★ | ★★★☆☆ | 56% | 15% | 4.6 | 0.29 | 0.29 | 5.00 |
| CRS-001-03 | 5Toned | ★★★★ | ★★☆ | 50% | 2% | 5.7 | 0.31 | 0.18 | 5.00 |
| CRS-001-04 | 5SuperToned | ★★★★☆ | ★★☆ | 51% | 1% | 5.7 | 0.29 | 0.08 | 5.00 |
| WERS Generic Standard Industry Typical Aluminium Window - Double Glazed with Crimsafe Security Screen on Exterior | | | | | | | | | |
| CRS-002-01 | 3Clr/6/3Clr | ★★★★☆ | ★★★☆☆ | 55% | 16% | 4.5 | 0.31 | 0.28 | 5.00 |
| CRS-002-02 | 3Clr/12/3Clr | ★★★★★ | ★★★☆☆ | 56% | 18% | 4.4 | 0.31 | 0.28 | 5.00 |
| CRS-002-03 | 3Clr/12/4LE | ★★★★★☆☆ | ★★★★ | 60% | 23% | 3.9 | 0.28 | 0.26 | 5.00 |
| CRS-002-04 | 5SuperToned/6/5 Clr | ★★★★★☆☆ | ★★★ | 64% | 7% | 4.5 | 0.18 | 0.04 | 5.00 |

Superior strength against impact

When it comes to impact resistance, Crimsafe has an outstanding reputation that's backed up by independent testing. When tested by The University of Queensland, our screens stood up not just against an Australian Standard of 5 x 100 Joule (J) impact, but also against singular impact levels up to 550J (Crimsafe Regular), 750J (Crimsafe Ultimate) and 1200J (Crimsafe Commercial Applications).

Crimsafe outperforms the rest



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Graph prepared by Crimsafe based on tests conducted by The University of Queensland, 2017.

Aluminium and stainless steel perforated products use a single sheet of metal with holes punched in it to create the 'screen'. Woven mesh screens (such as Crimsafe) use wires woven together to form a mesh screen.

For copies of our test results, please contact projects@crimsafe.com.au

Specify Crimsafe

Use our online program to obtain detailed Crimsafe specifications for any project.

Go to crimsafe.com.au/professionals or speak with one of our Commercial Project Managers on **1800 274 672** or email projects@crimsafe.com.au

Unparalleled protection meets design freedom

Clean lines, unobstructed views and bespoke fabrication means building with Crimsafe gives you limitless flexibility to marry style and functionality.

The combination of form, function and features means Crimsafe is widely specified for commercial projects as a solution to meet specific design requirements, including:

- incredible strength suitable for high-risk environments
- fire attenuation
- emergency exits
- energy efficient
- fall protection
- bushfire protection
- balustrading
- anti-throw
- anti-electrification
- cyclone debris protection
- pool fencing
- insect protection.

Crimsafe Security Systems Pty Ltd

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If it's not Crimsafe, it's not crim safe.

Crimsafe proudly partners with:

