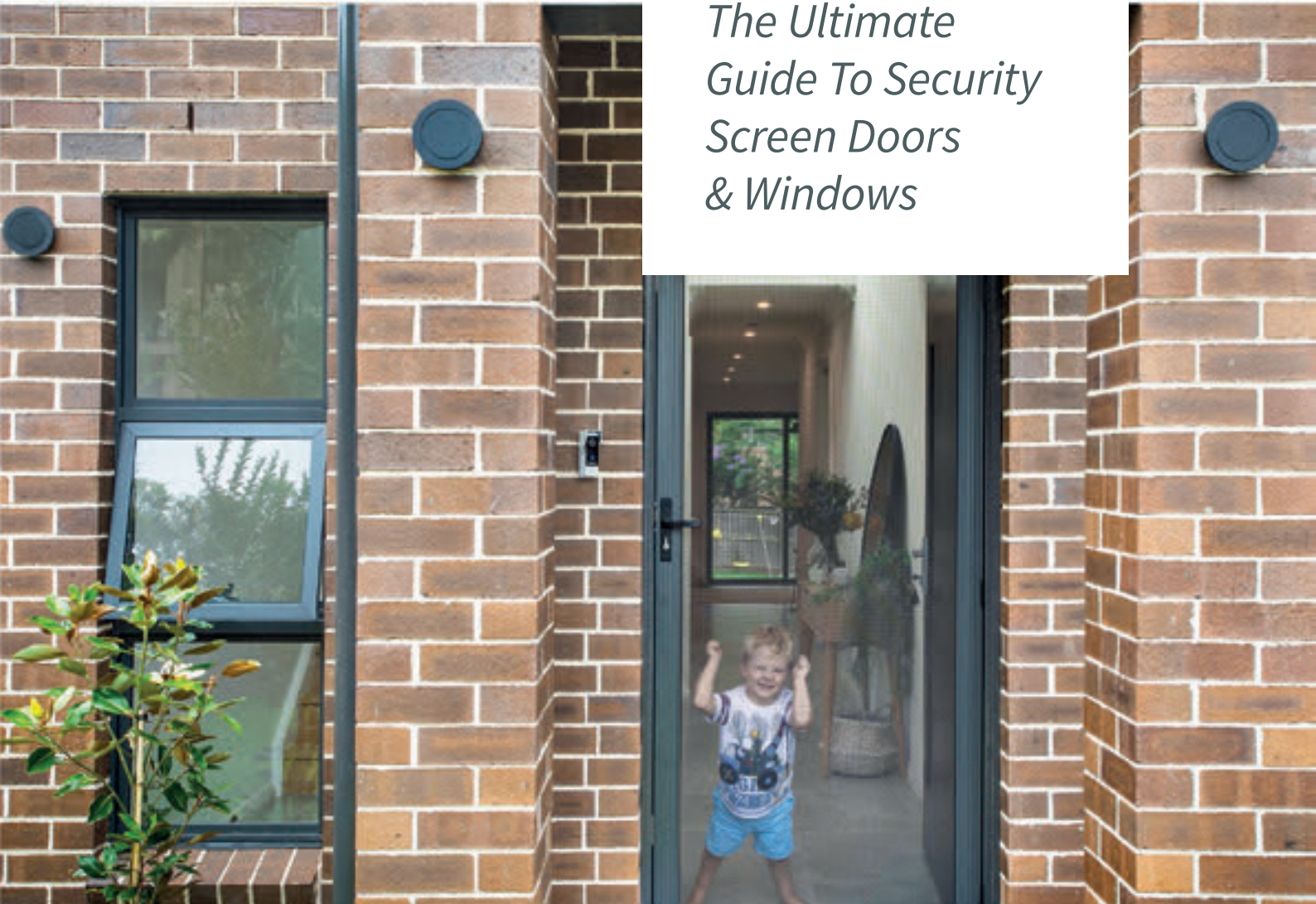




*The Ultimate  
Guide To Security  
Screen Doors  
& Windows*





## What is a Security Screen?

A security fly screen is made with either high tensile, woven stainless steel mesh or a perforated aluminium sheet that is fitted into an aluminium frame and installed onto doors or windows. Woven stainless steel is made up of strands of stainless steel woven together, almost like a checkerboard. Perforated aluminium is a single sheet of aluminium with holes punched out, "perforated".

Security screen mesh is more durable than regular fly screen mesh however, still allows for similar airflow without compromising on visibility. Security screen doors and windows that are sold in Australia must be tested to meet Australian Standard AS5039.

Security screen mesh is always powdercoated black, this is because your eyes see-through the darkness of the black powdercoat. This makes the security screen blend into its surroundings and is less imposing on the design of the home.

It is important to note that Safety Screens (also known as Barrier Screens) may look similar to Security Screens however, these screens have not been tested to meet Australian Standard AS5039.

## Why Do You Need a Security Screen?

Toughened security screen mesh has many benefits over regular fly screen mesh. Homeowners choose security screens over fly screens for their doors and windows for many of the following reasons:

**Insects** – Security Screens installed on your doors and windows will do as good a job of keeping insects out of your home as fly screens will. The advantage of choosing security screens over fly screens is that they are durable and will not rip or tear like fly screens and will last many years.

**Intruders** – Most intruders enter through unsecured windows and doors. Protecting your doors and windows with security screens will mean they are always secure even when accidentally left open. This is especially helpful in summer when you may want to open up a bedroom window for the breeze or keep doors of the house open for a cooling cross breeze.

**Window Safety** – Window falls can be fatal and brittle fly screens offer no protection as they can easily be pushed out or fallen through. If you have high windows that can be accessed by standing on beds or furniture, it is important to protect children or unbalanced adults from falling out the window. Window Security Screens offer protection as they cannot be pushed out and are installed to adhere to building code and strata regulations.

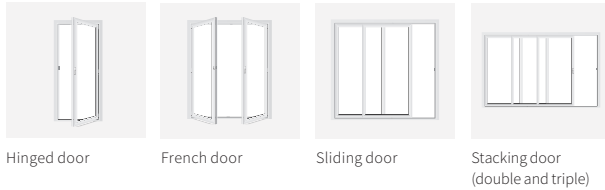
**Pet Proof** – Some pets are able to claw and tear through thin fly screen mesh. Security screens use a stronger mesh that cannot be clawed through by cats or dogs which make them a good choice in homes with pets.

**Energy Efficiency** – Increasing energy costs means that it is useful to recognise that up to 40% of home heat may be gained or lost through the windows in your home. Placing security screens over your entire window may improve the energy efficiency of your window by up to 51%. Security Screen windows will reduce heat from the sun in your home, keeping your home cooler in summer and restricting heat loss during winter. Window Security Screens can reduce your reliance on expensive air-conditioning and other heating and cooling methods.

**Cyclone and Fire Rating** – Homes that are located in bush fire prone or cyclone prone areas may have council regulations that specify the requirements for all screens installed in these areas. Most Security Screens have fire attenuation properties and BAL (Bushfire Attack Level) ratings stating their ability to resist fire. Many security screens are tested for a BAL 40 rating to protect homes against flying embers and debris during a bushfire attack. If your local council requires you to install BAL rated screens you will likely need to supply the BAL testing report to show that screens have been tested and certified to meet requirements. For those living in cyclone prone areas, a cyclone rated security screen will provide protection against debris and projectiles.

## Security Screen Doors

Security screen doors offer peace of mind day and night. They allow you to vet visitors before you let them in, and secure your doorway while you leave your door open for ventilation. Both hinged and sliding security doors are a modern way to provide safety, security, and are custom made to fit any door style and size. SP Screens security screen doors are manufactured using a patented tensioning tool which enables our screens to be custom built for most large openings without mid rails.



Hinged door      French door      Sliding door      Stacking door (double and triple)

### FEATURES

- Complies with Australian Security Standards

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- Custom built in Australia to precise measurements

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- Suitable for out of square doorways

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- Highly tensioned mesh

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- No mid rails obstructing your view

## Security Screen Windows

Fixed, hinged and sliding windows are able to be fitted with security screens to provide anti-intruder security, fall safety and airflow. Fire emergency screens may also be fitted to low windows that allow the screen to be opened as an exit point in the case of an emergency inside the home.



Sliding (single & double)      Single and double hung      Awning      Casement

### FEATURES

- Complies with Australian Security Standards

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- Custom built in Australia to precise measurements

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- Suitable for out of square windows

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- Meets Building Code



## Which Type Of Security Screen Mesh Is Best?

There are generally two types of security screen mesh, woven stainless steel and perforated aluminium. Each mesh type has its own pros and cons and the right option is completely dependent on the needs and requirements of the homeowner.

- Your preferred mesh design (woven or perforated)
- The Hole aperture (the size of the holes in the mesh) as this will affect airflow, privacy and protection against smaller insects such as midges
- The thickness of the mesh strands

- Corrosion resistance of the mesh especially if you live in a coastal area or an area prone to red dust (316 stainless steel is the most corrosion resistant)
- Fire and Cyclone ratings of screens, especially if it is a council requirement in your area

### Different Types of Security Screen Mesh

SP Screens has a range of three types of security screens available to cater for our customers varying home styles, requirements and budgets.



Xceed security screens are made from an extremely durable perforated aluminium sheet and extruded aluminium frame using a patented fixing method. Perforated aluminium screens are a modern and more secure replacement to dated Diamond Grilles and a less expensive alternative to the premium woven stainless steel mesh. Xceed is a great cost effective alternative to woven mesh security screens. They offer a wide range of features to meet Australian Standards,

has the corrosion resistant properties of aluminium, and act as a sun shade to reduce heat. Due to its structural grade alloy, the Xceed perforated aluminium is thinner and stronger than the commonly used architectural grade aluminium.

#### Features

- Surpasses Australian Standards
- Corrosion resistant properties of aluminium
- Added privacy



SecureView Eclipx security mesh is made from .8mm 316 marine grade stainless steel, expertly woven in state-of-the-art facilities, and extruded aluminium frame using a patented fixing method. Superior to its 304 steel counterpart, SecureView Eclipx is selected for its superb strength, durability and resistance to corrosion, embers and flying debris. SecureView Eclipx gives you ultimate security, clear unobstructed views, without compromising on the aesthetics of your building.

#### Features

- Surpasses Australian Standards
- Corrosion resistant – 316 marine grade woven mesh
- Cyclone rated
- Bush fire rated
- Highly tensioned mesh
- Unobstructed views



SaltWaterSeries security doors and windows are made from 316 marine grade stainless steel woven mesh, specifically powder coated for harsh conditions. The mesh is chosen for its superb strength, durability and corrosion resistance, and is far superior to the 304 steel mesh on the market. SaltWaterSeries is designed for optimum performance and durability in extreme environments including:




- Coastal areas within 500m from the coastline or up to 2 km for properties located on an escarpment, where prevailing wind will carry salt air
- Iron rich red dust prone areas and heavy industrial areas
- Surpasses Australian Standards
- Protective powder coating for optimal corrosion resistance
- 316 marine grade woven mesh





## Security Screen Product Comparison



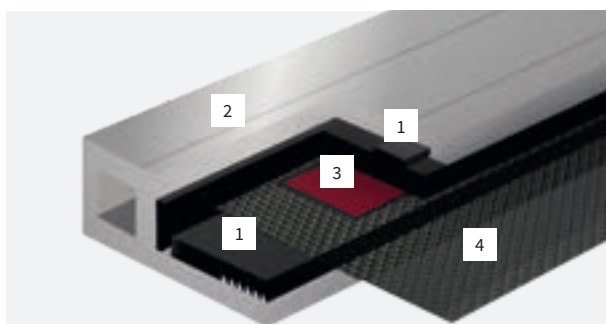
Features	Economical	Most Popular	Specialty
Mesh infill	Perforated, structural grade aluminium panels. Offering increased privacy, security and corrosion resistance. 	Our best-selling high tensile, corrosion resistant, 316 marine-grade stainless steel security screen mesh. 	High tensile, corrosion resistant 316 stainless steel featuring a protective heavy duty powder coating for coastal properties. 
3 Point Locking System	Yes	Yes	Yes
Patented Fixing System	Yes	Yes	Yes
Mesh Thickness	1.6mm	.8mm	.81mm
Airflow	Great	Excellent	Excellent
Hole Aperture	2.20mm	1.575mm	1.57mm
Insect Protection	Great	Excellent	Excellent
Visibility	Great	Excellent	Excellent
Pet door options available*	Yes	Yes	Yes
Manufacturer's Warranty	5 yr standard warranty 7 yr extended warranty**	11 yr standard warranty 15 yr extended warranty**	1 yr standard warranty 20 yr extended warranty**
<b>Testing</b>			
Security Grade Australian Standard (AS5039)	Yes, only when fitted with a 3 Point locking system	Yes	Yes
Aluminium Frame Tests	Pass	Pass	Pass
Cyclone Screen Test	Untested	Pass	Pass
Fire Rated	Untested	Pass	Pass
Neutral Salt Spray Test	Untested	1,000 hours	3,000 hours
Stainless Mesh Tests	N/A	Pass	Pass

\* Once a pet door is installed it no longer meets Australian Security standards and is considered a safety door.

\*\* Terms and conditions apply. Visit [www.spscreens.com.au/warranty](http://www.spscreens.com.au/warranty) for warranty terms.

## How Security Screens Are Manufactured

Most Security Screen manufacturers use their own patented design systems for manufacturing security screens. SP Screens is an authorised supplier of CommandeX security screens (Xceed, SecureView, and SaltWater Series) as we believe these are the strongest and most durable on the market. These are manufactured using the design detailed below. Other security screen systems use screw clamps and rivets which we believe increases the risk of galvanic corrosion that occurs when dissimilar metals contact.



### 1 – Keyway Fixing System

A two-part wedge system locks in and then activates the 3M VHB adhesive. The spacing between the screen and aluminium frame, eliminates the risk of galvanic corrosion.

### 2 – Aluminium Frame

The extruded aluminium frame delivers a lightweight solution with optimal strength. To strengthen each corner join, solid aluminium stakes are embedded within the frame.

### 3 – 3M™ VHB™ Acrylic Adhesive

3M VHB high performance chemical bonding technology provides exceptional strength and durability, without the need for screws or rivets.

### 4 – Accredited Australian Standard AS5039 Security Screen Mesh

Dependent upon your choice of security screen mesh. Security screen mesh may be 316 marine grade stainless steel, which is known for its higher corrosion resistant performance over 304 stainless steel. Alternatively, perforated aluminium security screen panels are a cost effective screen which has been accredited to AS5039 using the CommandeX system.

### Three-point Locking System

All security screens must be installed with an integrated three-point locking system (triple lock) to comply with Australian Security Standards.

## How Strong Are Security Screens?

The Australian Standards (AS5039 – 2008) stipulate a range of scientific tests that a security product must pass in order to remain in this class. These tests ensure the intrinsic strength and structural integrity of our manufactured security doors and windows are maintained. SecureView, SaltWaterSeries and Xceed are independently tested and surpass these standards.

### Australian Standards (AS5039 – 2008)

- Knife Sheer Test
- Pull Test
- Anti-Jemmy Test
- Impact Test
- Probe Test\*
- Sheer test\*

\*NA due to the hole aperture being far less than the test requirement

*SecureView Eclipx and SaltWaterSeries Security Screens surpass additional testing to achieve:*

### Aluminium Frame Tests

(AS/NZS1866:1997 & AS3715 – 2002) 60603 T5 powder-coated to a minimum thickness of 60um

### Neutral Salt Spray Test

AAMA2605-05 Section 7.8.2

### Bush Fire Protection

AS3959-2009 satisfying the requirements for bushfire attack level (BAL) 12.5,19,29,40.

### Fire Attenuation Test

Australian Standard AS1530.4-2005, Appendix B7 achieving 45.6% reduction in radiant heat flux between the inside and outside of the product.

### Cyclonic Screen Test

Australian Standard 2010: AS1170.2-2011 resisting a 4kg, 100mm x 50mm timber projectile travelling at 30 metres per second (108 kph) surpassing the standard test of 15 metres per second.

Further information on each of these Australian Standards tests are available through our supplier at [commandex.com.au/product-testing](http://commandex.com.au/product-testing)

### Professional Installation of Security Screens

For a security screen to be fully secure, the professional installation of the screen is critical. Security Screen door and window installation is not a task for your average handyman. It takes a qualified professional to identify the proper strong points, to secure the screen properly, and ensure that the entire product cannot be easily removed or broken into.

In order to install your security door or screen, your installer must be licensed. Licences to install security screens vary between states in Australia. In New South Wales, installers are issued a security license, which should be carried with them at all times (it looks similar to a driver’s license). In Queensland, the Queensland Building & Construction Commission (QBCC) issues installers with a trade licence in Metal Fabrication & Installation.

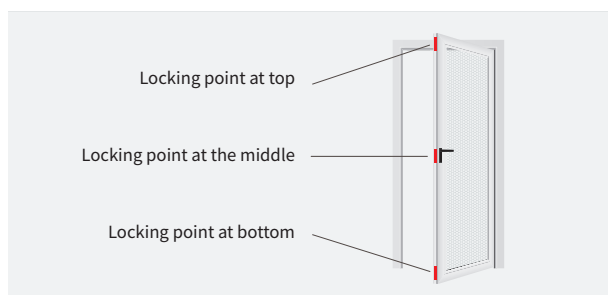
Security Screen installers will take exact measurements prior to manufacturing to ensure a quality fit. You can ask to see the installers licence to ensure they are reputable and qualified to sell security screens. You should also ask for proof that the security screens are tested to meet Australian Security Screen Standards.

### The Lock

A security screen door must be fitted with a triple lock to meet Australian Standard AS 5039-2008. A door fitted with a single lock does not meet this standard and cannot be labelled a security screen .

A triple lock has three locking points connected to an internal rod, one at the top, one in the middle, and one at the bottom. All three locking points are engaged when the key is turned.

Triple locks are significantly more secure than a single lock as it locks at three points on the door jamb and can’t be levered at the top or bottom



### Selecting the Door Frame and Handle

Security Screen mesh is always manufactured into an aluminium door frame rather than a timber door frame. Timber door frames are not strong enough to hold the security mesh in place to meet the Australian Security Screen Standards Pull Test, Jemmy Test or Impact Test.

It is popular to match the colour of the door frame to the colour of the existing door and window frames in a home to allow for consistency. A homeowner with existing timber frames may opt for an aluminium “wood effect” frame which replicates the look of timber whilst providing the strength of aluminium. Another popular choice is a black frame to match the colour of the security mesh. A black door handle is the most popular choice of door handle however, the handle can be colour matched to the frame colour if preferred.

Security Screen frames are available in a range of colours:

ANODIC NATURAL MATT	ANODIC DARK GREY	APO GREY	CHARCOAL
CUSTOM BLACK	DEEP OCEAN	DUNE	HAMMERSLEY BROWN
JASPER	MONUMENT	PALLADIUM SILVER	PAPERBARK
PEARL WHITE	PRIMROSE	STONE BEIGE	SURFMIST
ULTRA SILVER	WHITE BIRCH	WOODLAND GREY	BRONZE ANODISED
CLEAR ANODISED	SHALE GREY	TEXTURA BLACK	WESTERN RED CEDAR (WOOD EFFECT)*

\*Popular non standard colour.

### Cleaning, Maintenance & Warranty

The mesh in security screens acts as an air filter, and as air flows freely indoors, it traps airborne contaminants onto the screen. Although 316 Marine Grade Stainless steel mesh is highly corrosion resistant, dirt and in particular salt will crystallise on the screen and immediately try to attack the powder coating on the screen. Regular cleaning to remove airborne contaminants will keep your screens looking and performing their best.

The cleaning and maintenance of security screens is generally a warranty requirement to be adhered to.

SP Screens is committed to supplying high quality products and chooses to partner with suppliers who provide the highest quality products backed by generous warranties. SP Screens warranties provide additional peace of mind on top of Australian Consumer Law.

The triple locks on security screen doors generally have their own warranty which is separate to the warranty on the rest of the security screen. Always check details of the warranty on the lock.

### Australian Made

Most of the individual components in Security Screens need to be imported into Australia as there is not an Australian made option available. SP Screens is 100% Australian owned and it always has been. Our security screens are wholly Australian designed and Australian fabricated. Each screen is custom made locally to suit each individual customer’s specifications and installed by our local installers to the highest standards.



### Book a free in-home consultation

Our sales representatives will help you choose the best screen for your needs.



### Custom made

Each product is custom made to fit the exact measurements of your door or window to minimise gaps.



### Professional installation

Our local team of experienced installers will ensure a quality finish with our workmanship guaranteed.



### Quality guaranteed

Our retractable screens are backed by generous warranties. They are constructed using the highest quality components.



### Competitive prices

We are able to offer our retractable screens at a great price to suit all budgets.



[spscreens.com.au](http://spscreens.com.au)  
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Book your free in home consultation now.