



Defendoor TOUGH

316 Marine Grade Stainless Steel Mesh Security System

PRODUCT BROCHURE 8-22





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DEFENDOOR TOUGH

The Defendoor TOUGH 316 Marine Grade Stainless Steel Security Mesh System for windows and doors is designed to protect your family and your view; manufactured with high tensile 316 marine grade stainless steel mesh, Defendoor TOUGH's unique frames are tempered to T6, using state of the art equipment.

The anti-corrosion stainless steel wire mesh is coated with a specialised UV protective coating that provides a clear long lasting finish.

The Defendoor TOUGH range consists of:

- Hinged screen doors
- Sliding screen doors
- Window screens
- Fixed window screening
- Fire Escape Window System
- Enclosure for patios

BENEFITS & FEATURES

Corrosion resistant

Australian designed and engineered

Resistant against mesh removal

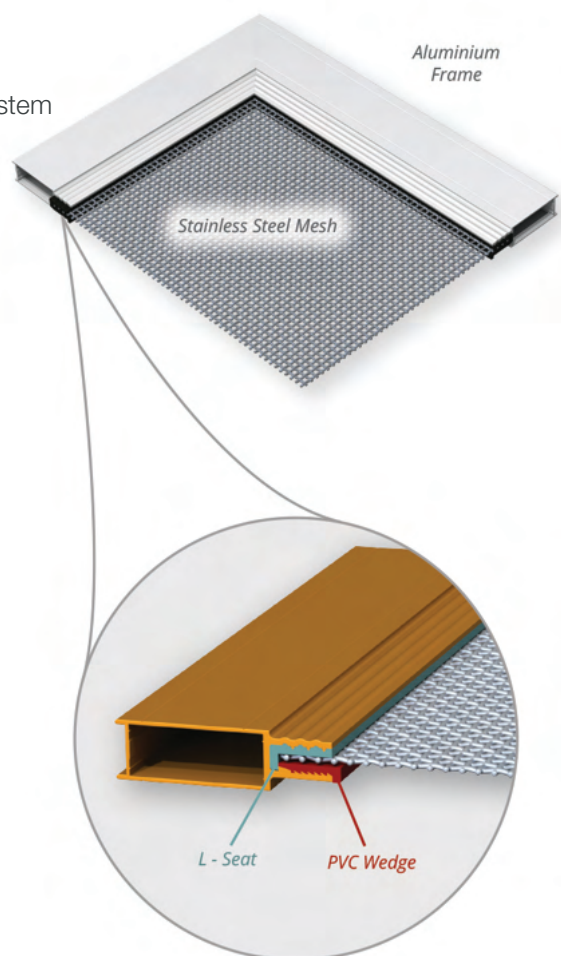
Easy to fabricate and install

316 marine grade high tensile stainless steel mesh

Tested to Australian Bushfire rating BAL 40*

Tested to Australian Standard AS5039 / 5041-2008

Tested to Australian Fire Standards*



Defendoor TOUGH's patented security system includes a unique rib design which provides additional strength and resistance against intruders.

Defendoor TOUGH meets and exceeds Australian standard AS5039 / 5041-2008

*Fire Attenuation AS1530.4-2014 Appendix B7



Defendoor TOUGH | Doors & Windows

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DOORS

Defendoor TOUGH hinged and sliding doors are one of the most popular options in security screen doors.

Enjoy the finest in security screen doors with Defendoor TOUGH 316 stainless steel mesh protection without unsightly grilles or bars obstructing your view.

All Defendoor TOUGH hinged and sliding doors have been tested according to Australian Standards, meeting and exceeding Australian standard AS5039 / 5041-2008.

Defendoor TOUGH offers the ultimate in security, without compromising on visibility or airflow and can be manufactured to suit multiple domestic and commercial applications.



WINDOWS

Defendoor TOUGH is available in a number of window screening options including fixed window screens, double hung window screens, sliding window screens and even louvre windows. Fixed window screens are designed to be fixed in place and cannot be removed, typically installed in the flyscreen track of the window.

Defendoor TOUGH sliding windows are a popular option; available as single or multiple panel sliding windows, they can also be custom-fitted to a variety of window shapes and sizes.

Create an alfresco entertainment area by adding a Defendoor TOUGH servery window. The addition of a servery window can turn a blank wall into a functional bench space and increase light and ventilation.



FIRE ESCAPE SYSTEM

Defendoor TOUGH Fire Escape Systems are integrated into the Defendoor TOUGH system for a quick and easy escape in the event of a house fire or any other emergency. A simple and quick latching system enables you to only open the window from the inside.

Defendoor TOUGH Fire Escape includes:

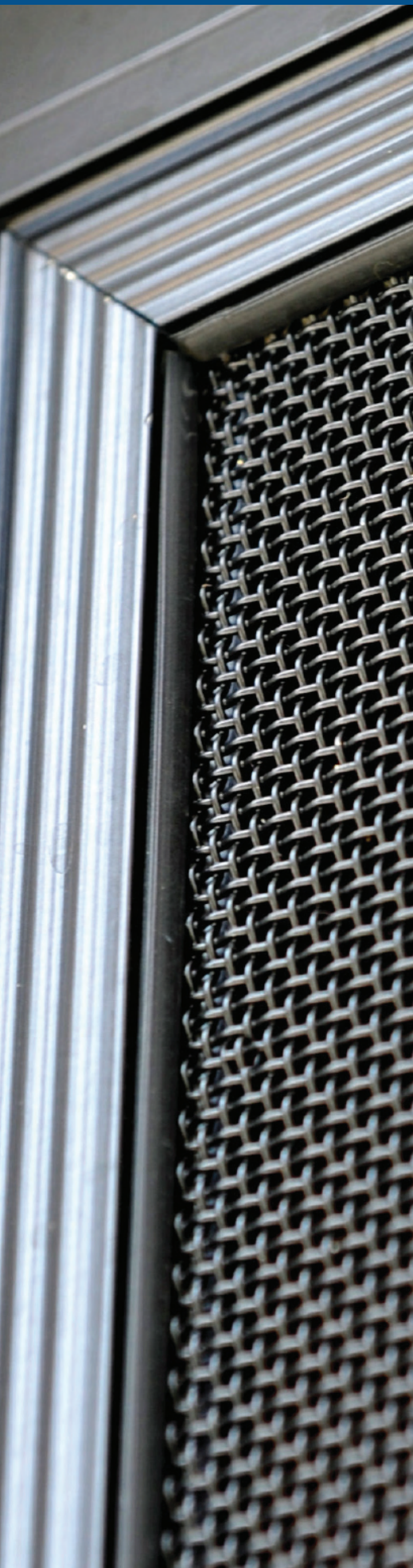
- A unique built-in locking action
- Stays open while you escape
- No need for extra locks
- Stainless Steel 4-bar hinge system
- Anti-Jemmy internal frame system





Defendoor TOUGH | Doors & Windows

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PRODUCT TESTING

Defendoor TOUGH's patented security screen products have been tested and meet Australian Standard AS5039 / 5041-2008. These tests are designed to simulate an attack using force to gain entry into a home.

DYNAMIC IMPACT TEST

Australian Standard AS5039 / 5041-2008 Security Screen Doors and Security Window Grilles. Defendoor TOUGH's patented two-piece wedge and seat design is simple yet strong. It has been tested beyond the Australian standard by resisting all five impacts well beyond the 100 joules required. Exceeding the standard requirements ensures Defendoor TOUGH is fit for purpose.

DYNAMIC IMPACT TEST	TEST NO.	PASS
Hinged Security Screen Door	AZT0261.19	Y
Sliding Security Screen Door	AZT0063.12	Y
Fire Escape	AZT0290.14	Y

ANTI-JEMMY TEST

Australian Standard AS5039/5041-2008 Security Screen Doors and Security Windows Grilles. Defendoor TOUGH successfully passed jemmy attack testing simulating an intruder attacking with items such as screwdrivers and a large amount of force. Testing has been repeated for a range of major hardware products sold by Darley Aluminium to give customers a range of locking options.

ANTI-JEMMY TEST	TEST NO.	PASS
Hinged Security Screen Door	AZT0261.19	Y
Sliding Security Screen Door	AZT0063.12	Y
Security Window Grille	AZT0290.14	Y

KNIFE SHEAR TEST

Australian Standard AS5039-2008 Security Screen Doors and Security Window Grilles. Another important successful feature of Defendoor TOUGH is its resistance to knife attack by passing the Australian standard requirements simulating an intruder trying to gain entry using a utility knife.

KNIFE SHEAR TEST	TEST NO.	PASS
Defendoor TOUGH Mesh	AZT0451.17	Y

CHILD FALL PREVENTION

Protection of openable windows. With appropriate installation, Defendoor TOUGH has proven to be a suitable option to help prevent children from falling from high windows.

OUTWARD FORCE TEST	PASS
Resist 250N Outward Force	Y

BUSHFIRE RATED

Australian Standard AS3959-2009 Construction of buildings in bushfire-prone areas. Defendoor TOUGH is bushfire-rated and protects your property from floating embers and reduces heat intensity of radiant heat flux.

BUSHFIRE TEST	PASS
BAL40 rating for Defendoor TOUGH	Y

FIRE ATTENUATION

Australian Standard AS1530.4-2014 Appendix B7. Assists in protecting fire and radiant heat spread between buildings in the event of a fire.

FIRE ATTENUATION TEST	TEST NO.	PASS
Achieves a fire attenuation rating of up to 46% at 40kW/m2 incident energy	2519600.1	Y

DEFENDOOR TOUGH ACHIEVES A MARKET LEADING FIRE ATTENUATION TIME OF 3 HOURS AND 10 MINUTES.

All testing is carried out by a NATA registered independent testing laboratory according to strict Australian standards.



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BUSHFIRE TESTING

Defendoor TOUGH's screens have undergone stringent bushfire testing to ensure quality performance in the event of a bushfire.

- BAL 40 Rating
- 40.2 kW/m2 Heat Flux Tested
- 46% Fire Attenuation
- Floating Ember Safe
- Universal Installation Into Any System

Defendoor TOUGH bushfire-rated screens use specially developed fire retardant L seats and co-extruded wedges. The stainless steel mesh used in Defendoor TOUGH screens complies with bushfire ember resistance regulations.

All bushfire testing was carried out by a NATA registered independent testing laboratory to strict Australian Standards.

10 YEAR WARRANTY

Defendoor TOUGH mesh warranty is for 10 years from the date of product installation. This warranty is to the original purchaser providing always that the product care and maintenance recommendations have been complied with during that period.

Defendoor TOUGH warrants its 316 marine grade stainless steel mesh to be free from defects in materials and manufacturing when fabricated in accordance with the fabricator instructions. This warranty does not apply to damaged caused by abuse, fire, accident, acts of God or alteration to the original product in any part.

CARE AND MAINTENANCE

Your Defendoor TOUGH security screen system requires regular maintenance to remove contaminants caused by pollution, industry, salt and climatic conditions.

The preferred method for cleaning your Defendoor TOUGH security system is to use SUPA WASH CONCENTRATE biodegradable cleaner – please see cleaning instructions provided. Alternatively, if no SUPA WASH CONCENTRATE is available, it is recommended to use a soft bristled brush with warm water and a neutral PH detergent. Abrasive cleaners and harsh detergents are not recommended as they can scratch or damage the surface area.

The following table indicates the suggested frequency of maintenance:

ENVIRONMENT	DEFINITION	FREQUENCY
Mild	15km from coastal / rural / suburban areas	Every 6 months
Moderate	10km from coastal / high traffic areas	Every 3 months
Extreme/Coastal	5km from coast / marine / heavy industrial areas	Every 2 weeks



Regular maintenance is required to comply with your Defendoor TOUGH 10 year warranty.

Mix 3 caps (25ml) per Litre of water. It is recommended to use a soft bristled brush or non-abrasive cloth, then rinse with water.

SUPA WASH CONCENTRATE is:

- non-toxic
- biodegradable
- user-friendly
- environmentally friendly



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