

# A SECURITY GUARD FOR YOUR BUILDING

Maximum security application achieved using Supascreen detention screen.

Install detention screen with 300mm centres.

Fastener security screws fit into 315537 window ferrules.

Install 2040 x 900 cm Detention hinged door.



Detention fittings provide visual deterrent to reduce vandalism.

Proven strength of 316 marine grade stainless steel mesh.



**SUPASCREEN® DETENTION**

The SupaScreen Detention Door and Window Screen System

# Detention Door and Window Screen System

## Method of test for impact resistance for security doors and window screens

Australian Standard AS5039.2008 outlines the method of dynamic test for security doors and screens. The method of test is intended to simulate typical attack methods such as jemmying and other impacts such as kicking, hitting or ramming. In particular, impact resistance is tested by swinging a 40kg weighted object from a pendulum at a fixed height and angle. The test is designed to exert 100 Joules of energy on the door in each impact. The security door or screen must withstand five consecutive impacts without failure at any point.

## Impact measurement explained

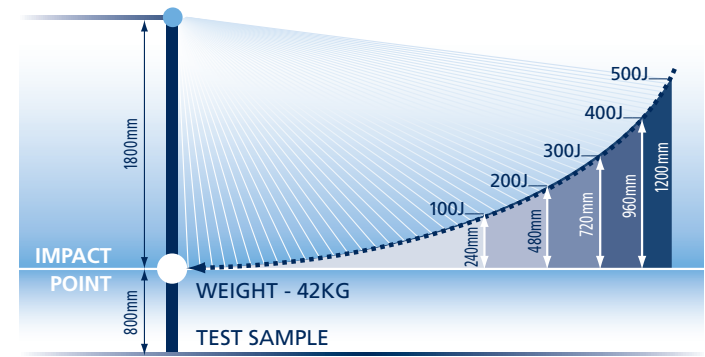
A joule is the measurement of energy used to perform an action. Every movement we make and action we perform uses or exerts energy. One joule is the energy required to move one kilogram about 10 centimetres. 100 Joules of energy is considered to be representative of the energy or force imparted to a security door when kicked by a potential intruder.

## Detention Door and Window Screen System

The SupaScreen Detention Door and Window Screen System is designed to meet the requirement for increased protection on commercial installations, public buildings and government projects.

The SupaScreen Detention System utilises the proven strength of 316 marine grade stainless steel mesh with a patented full perimeter fastening system and the additional strength of individual mechanical fixings. Through this combination, the SupaScreen Detention System provides a significant increase in impact resistance and a more pronounced visual deterrent through the use of additional mechanical fixings while continuing to offer the benefits of maintaining outlook and minimising natural light reduction.

Specifically designed to provide additional protection against breaking, entering and vandalism, the SupaScreen Detention System should be the first choice to compliment your building design and deliver and increased level of security to your project.



## Product Testing & Warranty

### Security Doors

- Detention fasteners at 300mm centres have been tested and shown to withstand double the impact force required by the standard, withstanding 5 impacts at 200 joules.
- Detention fasteners at 150mm centres have been tested and shown to withstand five times the number of impacts required by the standard, withstanding 25 impacts at 100 joules.

### Security Window Screens

- Detention fasteners at 300mm centres have been tested and shown to withstand double the impact force required by the standard, withstanding 5 impacts at 200 joules.
- Detention fasteners at 150mm centres have been tested and shown to withstand over ten times the total impact force, withstanding 13 impacts at 400 Joules.

The SupaScreen Detention System is covered by the same warranty that applies to all products in the Amplimesh range (refer care and maintenance and warranty card).

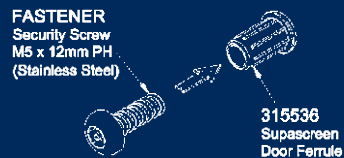
### AUSTRALIAN STANDARDS



### DOOR PERFORMANCE WITH FIXINGS

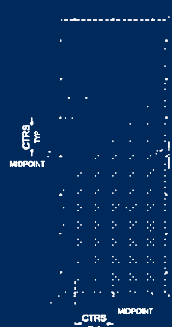
CTRS	IMPACTS	FORCE	RESULTS
300mm	5	100 Joules	PASS*
150mm	25	100 Joules	PASS*

\*Tested in compliance with AS5039.2008.

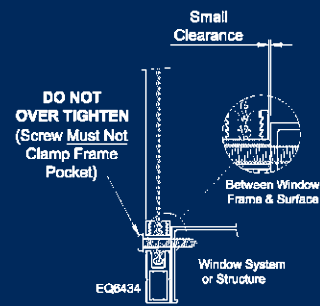


### Typical Door Panel

Tested Sample Size: 2040H x 870W



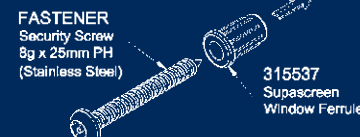
### Completed Assembly



### WINDOW PERFORMANCE WITH FIXINGS

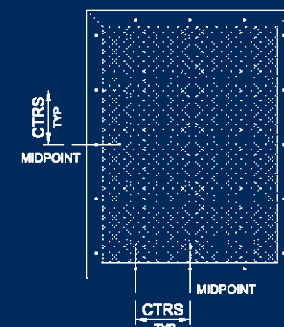
CTRS	IMPACTS	FORCE	RESULTS
300mm	5	300 Joules	PASS*
150mm	13	400 Joules	PASS*

\*Tested in compliance with AS5039.2008.  
Note: Impact test results were obtained by securely fixing the perimeter frame, such as may be expected of a fixed window screen installation.



### Typical Window Panel

Tested Sample Size: 1500H x 900W



### Completed Assembly

