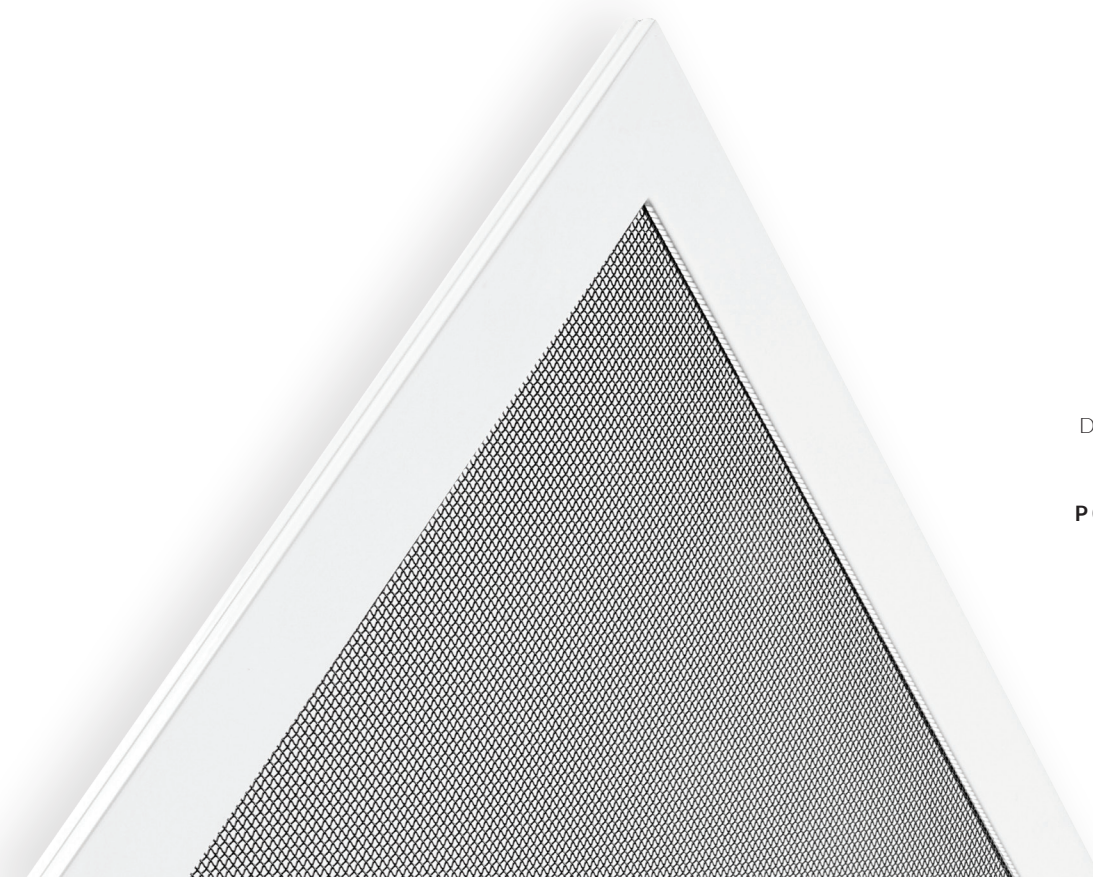


Reference guide

Guardian® Fall Prevention Window Screens

Version 1: October 2018

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Note: All references are taken from outside view looking in.

1. Compliance

1.1 Background

Fall prevention window screens are required for use in buildings as required by the National Construction Code (NCC). The NCC refers to the Australian Standards 5203 Protection of openable windows/fall prevention - Test sequence and compliance method.

Additionally, as of March 2018, New South Wales Department of Fair Trading has mandated the use of fall prevention methods taken from the NCC in their Strata Schemes Management Regulation, this relates to all Strata title buildings.

1.2 National Construction Code

The National Construction Code specifies various requirements for the prevention of falls from openable windows.

The intent of these requirements is to limit the risk of a person (especially a young child) falling through an openable window, and are divided into two categories;

1. All windows where the potential fall is four metres or more.
2. Windows in bedrooms of Class 1, 2, 3 and 4 buildings, and any room in Class 9b Early Child Care Centres where the potential fall is two metres or more.

1.3 AS5203 Protection of openable windows/fall prevention—Test sequence and compliance method

AS5203 specifies testing of both hardware restriction devices and fixed fall prevention screens. Fall prevention screens must be tested on-site using a specialised test kit. The test must be carried out on at least the largest screen being installed on the job/project. A record of the test must be kept.

A certificate should be issued if the purchaser or builder requests evidence of the test/installation to NCC requirements.

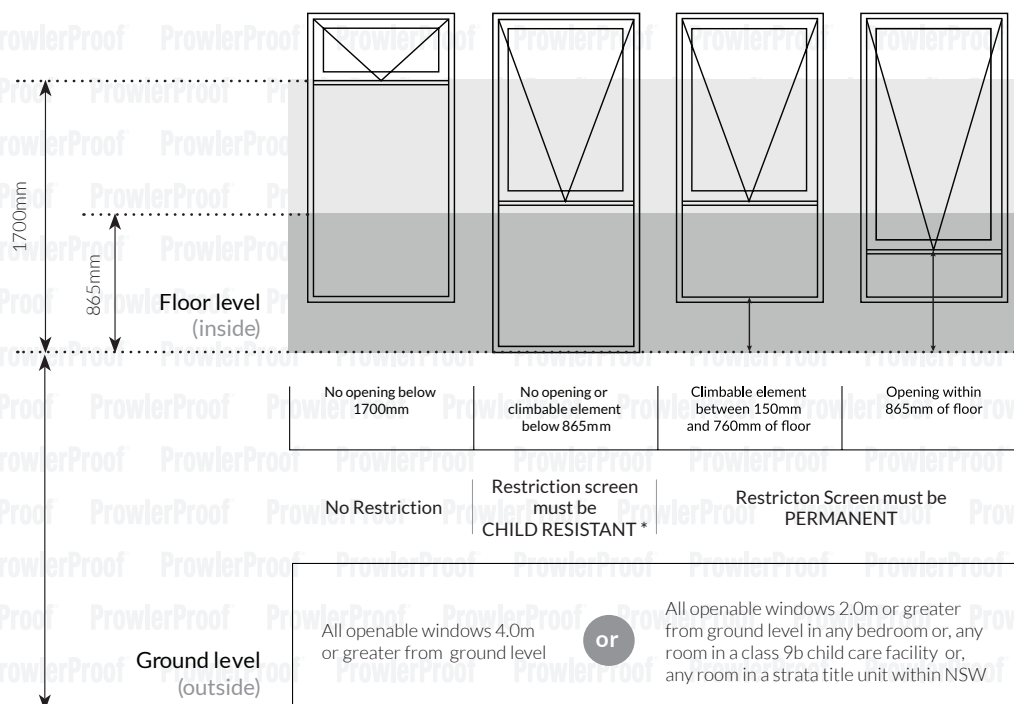
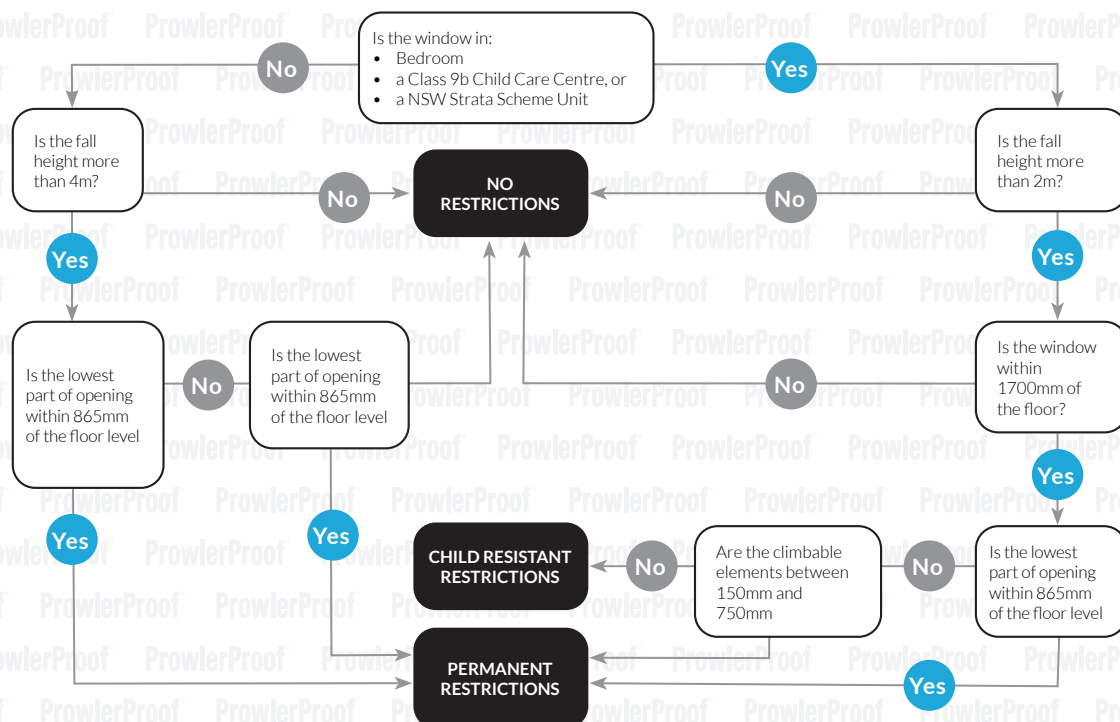
1.4 NSW Fair Trading – Strata Title Buildings

The NSW Strata Schemes Management Regulation 2010 requires protection (restriction hardware or screens) to windows in any room where the potential fall is over two metres. This regulation is retrospect, regardless of how old the building is.

1. Compliance continued

1.5 Reference Chart & Diagram – Fall Prevention and the protection of openable windows

Use the below flow chart and diagram to help determine if a window is required to be fitted with a fall prevention screen.



* Child resistant means that a key, Allen key, screw driver, spanner or the coordinated use of two hands is required to remove the screen.

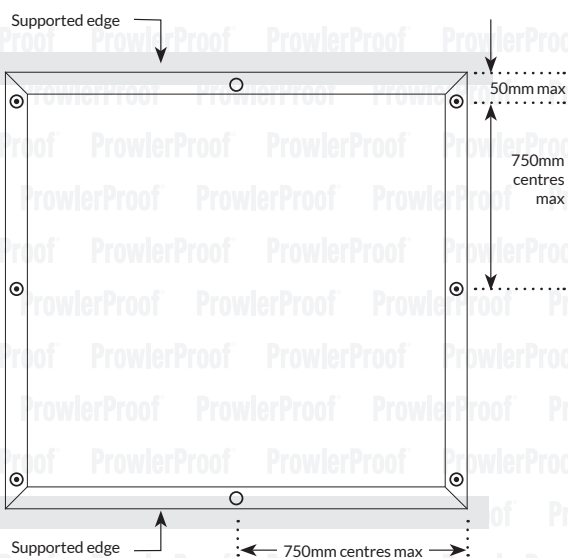
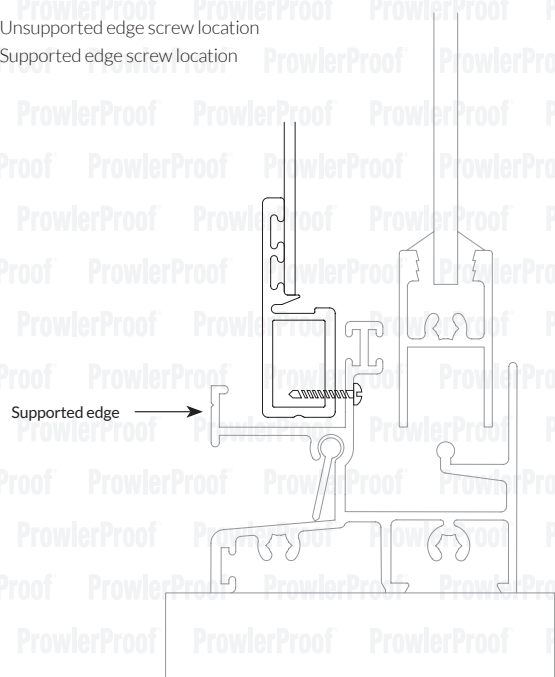
2. Measure and installation

2.1 In-frame method

A minimum of two edges must be supported by the window frame.

(Minimum 8 screws per screen)

- Unsupported edge screw location
- Supported edge screw location



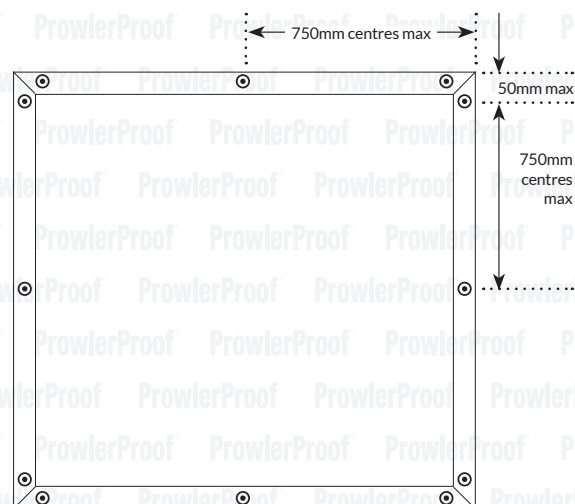
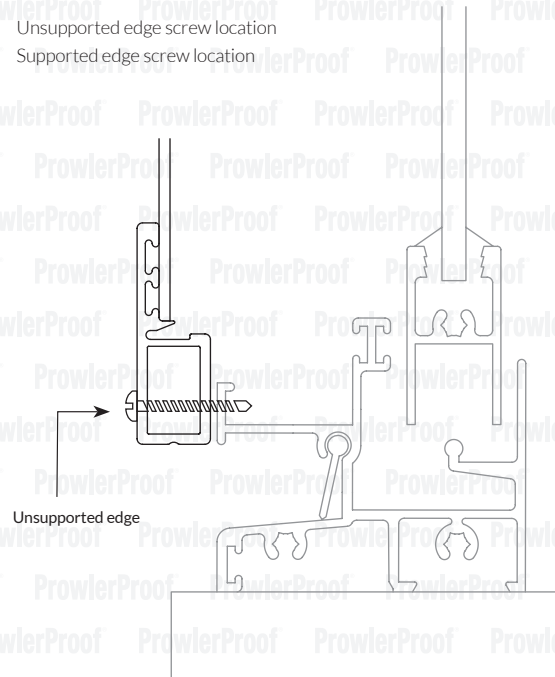
Note: If using extrusion accessories, fix 50mm maximum from ends and 300mm centres maximum. Security screws not required, however recommended.

2.2 Face fix method

Fasten screws around the perimeter of screen.

(Minimum 12 screws per screen)

- Unsupported edge screw location
- Supported edge screw location



Note: If using extrusion accessories, fix 50mm maximum from ends and 300mm centres maximum. Security screws not required, however recommended.

These instructions are a guide only. On-site testing should be conducted to ensure compliance, as per AS 5203.

Note: Security screens that have passed and are installed in accordance with AS 5041 are not required to be tested and shall be deemed as a pass.

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3. Testing

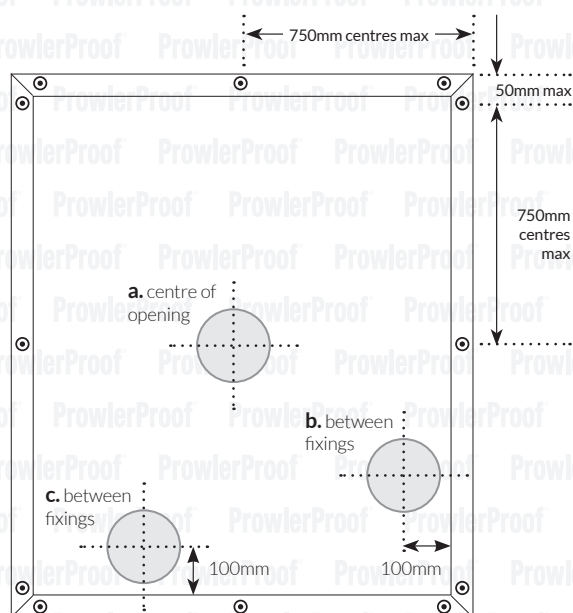


3.1 AS 5203 Protection of openable windows/fall prevention—Test sequence & compliance method instruction guide

The National Construction Code (NCC) requires fall prevention screens to meet the criteria of Australian Standard 5203 (Protection of openable windows/fall prevention—Test sequence and compliance method).

Below is an overview of this standard for use with Prowler Proof Guardian® fall prevention window screens. If a Prowler Proof security screen is fitted to AS5041, then it is deemed to pass AS5203 requirements and does not require testing.

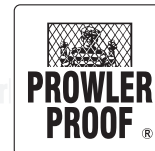
- Once all screens are installed, determine the largest screen for testing, ensure all screens were fitted to the minimum screw location and set-out.
- Using your test kit, fit the 125mm disc/plate to your force gauge ready for use.
- Using your test kit, get the 152mm rigid sphere ready for use.
- Open the window to the maximum opening.
- Measure the location of the centre of the opening (a).
- Apply force gauge plate to centre of opening (a) in a horizontal direction until gauge reads over 250 newtons (25kg) of force and hold for five seconds. While applying force with gauge, use the 125 mm rigid sphere to any opening that may be present.
- Repeat three times. If sphere cannot pass through opening it is deemed a pass. If the sphere can pass through an opening this is deemed as a fail.
- Apply force gauge plate 100mm in from inside of screen and at the weakest part of an unsupported edge (either b or c between fixings).
- Measure this location (b or c).
- Apply force gauge plate to location (b or c) in a horizontal direction until gauge reads over 250 newtons (25kg) of force and hold for five seconds. While applying force with gauge, use the 125 mm rigid sphere to any opening that may be present.
- Repeat three times. If sphere cannot pass through opening it is deemed a pass. If the sphere can pass through an opening this is deemed as a fail.
- Any obvious dislodgment during and after the applied loads, or if it has an effect on the integrity of the test specimen it shall be deemed as a fail.
- Fill out the Prowler Proof Compliance Certificate for window Fall Prevention Screens. This certificate can be used to supply the purchaser, builder or the like proof of compliance and on-site testing. It is a requirement to log the test results and keep a record.
- It is recommended to take a photo of the finished installation of each tested window and file with a copy of the compliance certificate for any future need.



Note: To comply with test requirements use location

a. centre of screen and either **b. or c.** which ever has the greater distance between screw points on any unsupported edge.

4. Trouble shooting



There is no where to screw fix the screen along a given length.	<ul style="list-style-type: none">• See if there is space for an angle to be fixed to the window, then fix to the screen, fix 50mm from each end and 300mm centres maximum, or• Apply the face fix method
The window failed a part of the test	<ul style="list-style-type: none">• If the window is still in good order, apply screws to no greater than 300mm centres as per our security screen requirements and re-test• If the product is not in good condition then remove and replace screen• Ensure window restrictor is refitted to ensure building compliance
I cannot get a screw 50mm from an end	<ul style="list-style-type: none">• Place the screw as close to the end as practically possible• Select this corner 100mm in from each end or as close as practically possible and test
Do I have to install using security screws?	<ul style="list-style-type: none">• No, however we recommend using security screws when installing Guardian®