



Product specification guide

Product specification information for our
ForceField®, Protec and Guardian® products.

Version 3: July 2020





Which product
is right for your
project?



Product: ForceField®
Suburb: Newport
State: Queensland



	FORCEFIELD® Stainless steel 316 marine grade mesh	PROTEC Aluminium perforated mesh	GUARDIAN® Stainless steel 304 architectural mesh
APPLICATION			
HINGE DOOR	✓	✓	✗
SLIDING DOOR	✓	✓	✗
FIXED WINDOW	✓	✓	✓
HINGE WINDOW	✓	✓	✗
PERFORMANCE			
SECURITY	✓	✓	✗
CYCLONE	✓	✗	✗
BUSHFIRE	✓	✓	✓
ENERGY & UV LIGHT	✓	✓	✗
CORROSION	✓	✓	✓
INSECT PROTECTION	✓	✓	✓
ACCESS CONTROL	✓	✓	✓
FALL PREVENTION	✓	✓	✓

*See www.prowlerproof.com.au for more information on our product range.



Which building classifications?



Architect: Jardine Architects
Builder: Deluca Constructions
Product: ForceField®
Installer: JKA Commercial Glazing
Suburb: Mango Hill
State: Queensland

CLASSIFICATION	FORCEFIELD® Stainless steel 316 marine grade mesh	PROTEC Aluminium perforated mesh	GUARDIAN® Stainless steel 304 architectural mesh
Class 1	✓	✓	✓
Class 2	✓	✓	
Class 3	✓		
Class 4	✓		
Class 5	✓		
Class 6	✓		
Class 7	✓		
Class 8	✓		
Class 9	✓		
Class 10	✓	✓	

*Above is a guide only, contact Prowler Proof to discuss your specific application.

Installation information:

Security doors and window screens need to be installed as per AS5040. In NSW, ACT and WA installers must be security licensed, as per their state's requirements, to be able to install security screens.



Architect: Marc & Co Architects
Builder: MDC Constructions
Product: ForceField®
Installer: Chalmers Security Installations
Suburb: Brookfield
State: Queensland



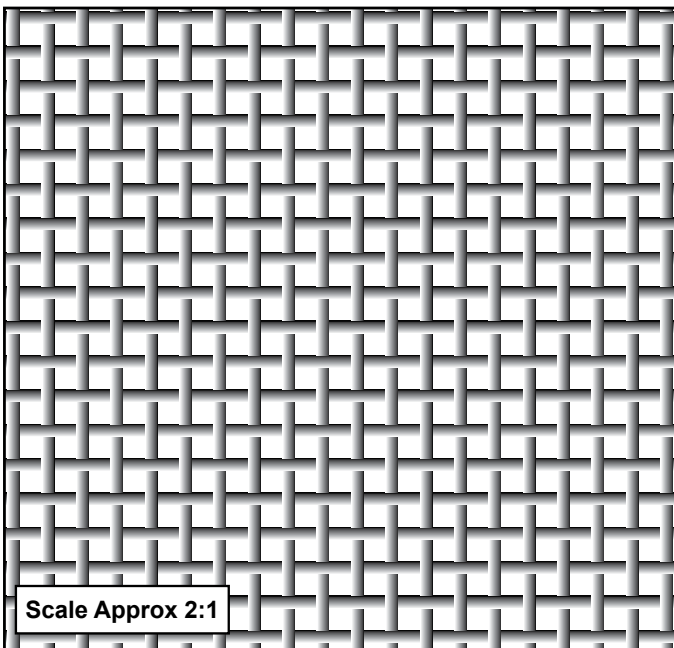


ForceField® specification information sheet

Specification:

For the purpose of specifying Prowler Proof ForceField security screens in a tender document the following wording is recommended:

"Security Screens – Prowler Proof ForceField 0.8mm diameter, high tensile 316, marine grade, woven stainless steel security mesh, joined to fully welded frame using a full perimeter mechanical and chemical bond, tested to exceed the requirements of AS5039 Security screen doors and security window grilles and powder coated to Qualicoat accredited level."



Properties:

WIRE:

High tensile, 316 marine grade stainless steel, 0.8mm wire diameter, 860-940 Mpa

MESH:

Plain weave, 11 x 10.5 strands per 25mm², woven to Standards ISO 9044/ASTM E2016-06

APERTURES:

Prowler Proof ForceField mesh has apertures of 1.62mm

OPEN AREA:

The open area of ForceField mesh is 42.5%

FRAME EXTRUSION:

Extruded aluminium alloy 6060-T5
Robotically welded corners

INSTALLATION:

All doors and screens to be fitted as per AS5040-2003 and using Prowler Proof's How to Install guides. Our H.I.T.® concealed fix, sliding door interlocks and receivers are highly recommended for all installations. Tamper resistant security fasteners should be used.

ForceField sliding security doors, with Lockwood triple point locks, include Prowler Proof's Performance Plus (P+) extended strikes. ForceField hinge security doors, with Lockwood triple point locks, include stainless steel security hinges.

MESH SURFACE COATINGS:

Mesh - Ultra Black Low Sheen

Neutral Salt Spray testing (AS 2331.3.1) – 10,000 hours

Acetic Acid Salt Spray Testing (AS 2331.3.2) – Performed as a complete frame and mesh test – 1,000 hours

FRAME SURFACE COATINGS:







Qualicoat accredited powder coating - licence 2118.

300+ powder coating colours available in our standard lead time.



ForceField® specification information sheet

Performance and testing:

-  Security - Prowler Proof ForceField has been tested and passed the requirements of AS5039 – 2008 as prescribed in AS5041 Methods of Test – Security Screen Doors & Window Grilles. The tests include dynamic impact test, jemmy test, pull test, probe test, shear test and knife shear test.
-  Cyclone - AS/NZS 1170.2:2011
US hurricane and pressure cycle testing - AAMA 506-06/ASTM E1996/ASTM E1886
-  Bushfire – AS 3959 compliant to BAL-FZ (specific installation instructions required)
Fire Attenuation test – FS 4302/3572
-  WERS – Residential
WERS – Commercial
European Standard – EN14501
-  Fall prevention - Australian Standards 5203 Protection of openable windows/fall prevention
-  Neutral Salt Spray testing (AS 2331.3.1) – 10,000 hours
Acetic Acid Salt Spray Testing (AS 2331.3.2) – Performed as a complete frame and mesh test – 1,000 hours


*A copy of the [test reports](#) can be found at www.prowlerproof.com.au under testing, alternatively contact Prowler Proof.

Debris Screening:

Residential and Commercial properties in cyclone regions C and D as required under AS1170.2:2011. See test report for maximum windspeed capabilities.

Applications:

PRODUCT TYPES:

-  Hinge Door
-  Sliding Door
-  Fixed Window
-  Hinge Window

Prowler Proof ForceField is suitable for use in applications such as:

- Stand alone residential homes
- Medium density residential
- Hi-Rise apartments
- Aged Care Facilities
- Child care facilities
- Schools
- Hospitals
- Barracks / Dorm / Student Living
- Sporting club rooms
- Cyclonic

TYPE		APPLICATION			
		HINGE DOOR	SLIDING DOOR	FIXED WINDOW	HINGE WINDOW
DOORS	Single Door	✓			
	French Door	✓			
	Single Sliding		✓		
	Double Sliding		✓		
	Double Stacking Sliding		✓		
	Corner Single Sliding		✓		
	Corner Double Sliding		✓		
WINDOWS	Sliding			✓	✓
	Double Sliding			✓	✓
	Single Hung			✓	✓
	Double Hung			✓	✓
	Louvre			✓	✓
	Awning			✓	✓
	Casement			✓	✓

*The above applications are suitable for most aluminium and timber windows and doors.



Builder: Col Wilson Building Services
Product: Protec
Installer: Scope Doors & Windows
Suburb: Rangeville
State: Queensland



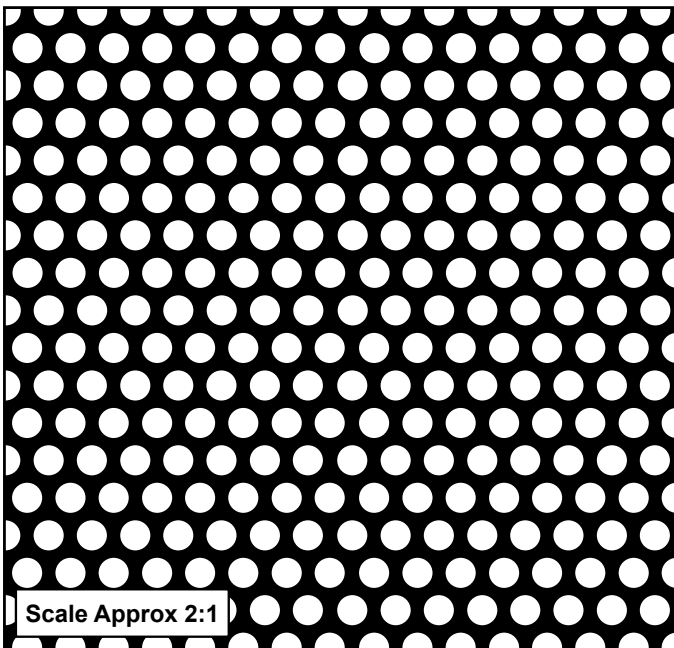


Protec specification information sheet

Specification:

For the purpose of specifying Prowler Proof Protec security screens in a tender document the following wording is recommended:

"Security Screens – Prowler Proof Protec 1.7mm perforated aluminium sheet mesh, joined to fully welded frame using a full perimeter mechanical and chemical bond, tested to exceed the requirements of AS5039 Security screen doors and security window grilles and powder coated to Qualicoat accredited level."



Properties:

MESH:

1.7mm perforated aluminium sheet mesh

APERTURES:

Prowler Proof Protec mesh has apertures of 2.0mm

OPEN AREA:

The open area of Protec mesh is 40%

FRAME EXTRUSION:

Extruded aluminium alloy 6060-T5
Robotically welded corners

INSTALLATION:

All doors and screens to be fitted as per AS5040-2003 and using Prowler Proof's How to Install guides. Our H.I.T.® concealed fix, sliding door interlocks and receivers are highly recommended for all installations. Tamper resistant security fasteners should be used.

Protec sliding security doors, with Lockwood triple point locks, include Prowler Proof's Performance Plus (P+) extended strikes.
Protec hinge security doors, with Lockwood triple point locks, include stainless steel security hinges.

MESH SURFACE COATINGS:

Mesh - Black Low Sheen
Neutral Salt Spray testing (AS 2331.3.1) – 10,000 hours
Acetic Acid Salt Spray Testing (AS 2331.3.2) – Performed as a complete frame and mesh test – 1,000 hours






FRAME SURFACE COATINGS:

Qualicoat accredited powder coating - licence 2118.
300+ powder coating colours available in our standard lead time.



Protec specification information sheet

Performance and testing:

-  Security - Prowler Proof Protec has been tested and passed the requirements of AS5039 – 2008 as prescribed in AS5041 Methods of Test – Security Screen Doors & Window Grilles. The tests include dynamic impact test, jemmy test, pull test, probe test, shear test and knife shear test.
-  Bushfire – AS 3959 compliant to BAL-29
-  WERS – Residential
WERS – Commercial
-  Fall prevention - Australian Standards 5203 Protection of openable windows/fall prevention
-  Neutral Salt Spray testing (AS 2331.3.1) – 10,000 hours
Acetic Acid Salt Spray Testing (AS 2331.3.2) – Performed as a complete frame and mesh test – 1,000 hours

*A copy of the [test reports](http://www.prowlerproof.com.au) can be found at www.prowlerproof.com.au under testing, alternatively contact Prowler Proof.

Applications:

PRODUCT TYPES:

-  Hinge Door
-  Sliding Door
-  Fixed Window
-  Hinge Window

Prowler Proof Protec is suitable for use in applications such as:

- Stand alone residential homes
- Medium density residential
- Hi-Rise apartments
- Aged Care Facilities
- Child care facilities
- Schools
- Hospitals
- Barracks / Dorm / Student Living
- Sporting club rooms

TYPE		APPLICATION			
		HINGE DOOR	SLIDING DOOR	FIXED WINDOW	HINGE WINDOW
DOORS	Single Door	✓			
	French Door	✓			
	Single Sliding		✓		
	Double Sliding		✓		
	Double Stacking Sliding		✓		
	Corner Single Sliding		✓		
	Corner Double Sliding		✓		
WINDOWS	Sliding			✓	✓
	Double Sliding			✓	✓
	Single Hung			✓	✓
	Double Hung			✓	✓
	Louvre			✓	✓
	Awning			✓	✓
	Casement			✓	✓

*The above applications are suitable for most aluminium and timber windows and doors.



Product: ForceField® Hinge window
Suburb: Pullenvale
State: Queensland



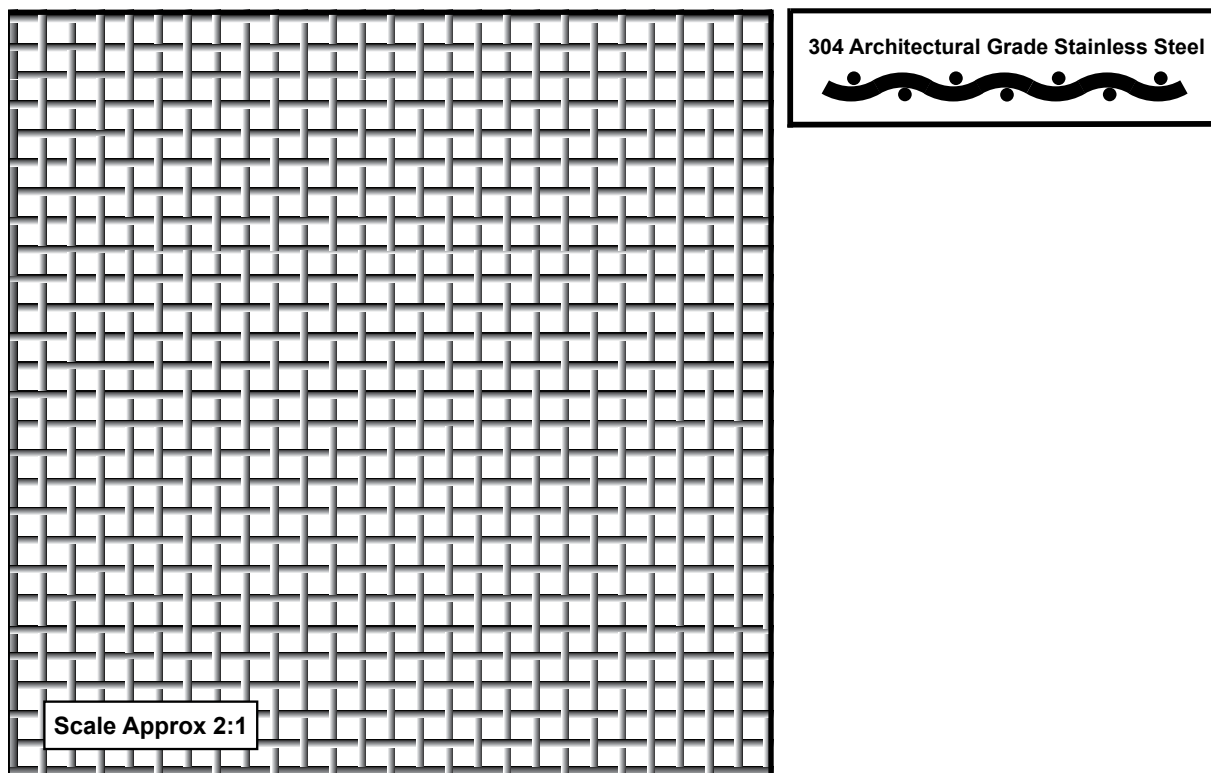


Guardian® specification information sheet

Specification:

For the purpose of specifying Prowler Proof Guardian screens in a tender document the following wording is recommended:

"Fall prevention window screen – Prowler Proof Guardian 0.6mm diameter, high tensile 304 woven stainless steel security mesh, joined to fully welded frame using a full perimeter mechanical and chemical bond, tested to exceed the requirements of the National Construction Code for fall prevention 250NM, and powder coated to Qualicoat accredited level."



Properties:

WIRE:

High tensile, 304 stainless steel, 0.6mm wire diameter

MESH:

Plain weave, 12 x 12 strands per 25mm², woven to Standards ISO 9044/ASTM E2016-06

APERTURES:

Prowler Proof Guardian mesh has apertures of 1.3mm

OPEN AREA:

The open area of Guardian mesh is 44.8%

FRAME EXTRUSION:

Extruded aluminium alloy 6060-T5
Robotically welded corners

INSTALLATION:

All screens to be fitted and tested as per AS5203 (Protection of openable windows/fall prevention – Test sequence and compliance method) and using Prowler Proof's How to Install guides.

MESH SURFACE COATINGS:

Mesh - Ultra Black Low Sheen
Neutral Salt Spray testing (AS 2331.3.1) – 3,000 hours

FRAME SURFACE COATINGS:

Qualicoat accredited powder coating - licence 2118.
300+ powder coating colours available in our standard lead time.



Guardian® specification information sheet

Performance and testing:



Fall prevention - Australian Standards 5203 Protection of openable windows/fall prevention



Bushfire – AS 3959 compliant to BAL-40



Neutral Salt Spray testing (AS 2331.3.1) – 3,000 hours

*A copy of the [test reports](#) can be found at www.prowlerproof.com.au under testing, alternatively contact Prowler Proof.

Applications:

PRODUCT TYPES:



Fixed Window

Prowler Proof Protec is suitable for use in applications such as:

- Stand alone residential homes
- Medium density residential
- Hi-Rise apartments
- Aged care facilities
- Child care facilities
- Schools
- Hospitals
- Barracks / Dorm / Student Living

TYPE		APPLICATION			
		HINGE DOOR	SLIDING DOOR	FIXED WINDOW	HINGE WINDOW
DOORS	Single Door				
	French Door				
	Single Sliding				
	Double Sliding				
	Double Stacking Sliding				
	Corner Single Sliding				
	Corner Double Sliding				
WINDOWS	Sliding			✓	
	Double Sliding			✓	
	Single Hung			✓	
	Double Hung			✓	
	Louvre			✓	
	Awning			✓	
	Casement			✓	

*The above applications are suitable for most aluminium and timber windows and doors.