WARRIOR BUSHFIRE MESH

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EMBER MESH



OVERVIEW

The Warrior Bushfire Mesh range has been designed to withstand temperatures of up to 40kW without failure to the EGP retention system. Protection from ember attack and burning debris preventing internal ignition to the building prevents possible loss of homes from the start.

The Warrior Bushfire Mesh system consists of a perimeter aluminium frame that is fixed to the perimeter of the window opening using a continuous angle or direct fixed to the wall. This system can also provide security and fall prevention.

Warrior Bushfire Mesh is bushfire rated and protects your property from floating embers; and reduces heat intensity of radiant heat flux.

This system complies with the mesh aperture for screening of openable parts of windows up to BAL-FZ conditions.

- The Warrior Bushfire Mesh complies with the requirements of AS3959 Ember Guards
- May be retrofitted over any style of an existing window
- Minimal sidewall clearance/usage requirements
- Constructed from architectural grade aluminium frame and high tensile 316 stainless steel mesh
- Highly corrosion resistant and exceptionally strong
- 0.8 mm thick woven stainless steel mesh, coated black to reduce light reflection
- Exceeds all relevant Australian and industry standards
- Custom built to suit each project





We believe people deserve to work & live in safe & beautiful buildings.

BUSHFIRE CONTROL

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FPA GOLD MEMBER

WARRIOR BUSHFIRE MESH Heat Attenuation Screen

WHEN DO I NEED TO INSTALL EMBER MESH?

If your home is rated BAL FZ (Bushfire Attack Level - Flame Zone) you are required to install ember mesh on the openable portion of the window.

In a BAL 40 zone, if the window is not tested in accordance with AS1530.8.1 then it must have mesh over the entire window including the fixed panels. If the windows have been tested in accordance with AS1530.8.1 then the mesh needs to be fitted as tested, usually over the openable portion only (if it has been tested that way) – check with the BAL 40 window supplier for their requirements.

TECHNICAL SPECIFICATIONS

Aluminium Frame	6063-T5 Architectural Aluminium
Mesh	Marine Grade 316 Stainless Steel
Wire Diameter	0.8mm
Mesh Count	11 x 11 strands per 25mm^2
Aperture Size	1.6 x 1.6 mm
Velocity Drop	44.21%
Drag Coefficient	0.6998
Wire Tensile Strength	900MPa (Nominal)
Open Area	44%

- Finish - black polyester powder coating
- Finish Aluminium Frame – Standard Duralloy colour powder coating

SIZES

Warrior Bushfire Mesh is manufactured to order in any size increment.

FIXINGS

- Fasteners spaced not greater than 300mm apart
- Fasteners shall extend into the substrate no less than 27mm
- Fasteners shall be steel or stainless steel and not less than 8 gauge
- The fasteners shall hold the stainless steel mesh in place over the opening, in the event that the frame holding the mesh in place melts, due to the fire conditions
- The mesh shall be held within the frame by non combustible materials. This would exclude plastic wedges, strips and sections

BUSHFIRE ATTACK LEVELS

(BAL)	Description of predicted bushfire attack and levels of exposure
BAL - LOW	There is insufficient risk to warrant specific construction requirements
BAL - 12.5	Ember attack
BAL - 19	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 12.5 and 19 kW/m^2
BAL - 29	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 19 and 29 kW/m^2
BAL - 40	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux with the increased likelihood of exposure to flames
BAL - FZ	Direct exposure to flames from fire front in addition to heat flux and ember attack

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