

316 Marine-Grade Stainless Steel Insect Mesh

Product Specification & AS 3959:2018 Bushfire Compliance Statement

Product	TradeBase 316 Stainless Steel Door & Window Mesh Flyscreen
Widths / Length	610, 760, 910, 1220, 1520 mm • 30 m roll
SKU (1220mm)	FSS122030
Supplier	TradeBase Australia, 641 Kororoit Creek Rd, Altona VIC 3018

Technical Specification

Material	AISI 316 marine-grade stainless steel
Weave	18 × 16 strands per inch
Strand diameter	0.25 mm
Aperture (calculated)	1.16 mm × 1.34 mm (max 1.34 mm)
Weight	318 GSM
Finish	Black epoxy / powder coat
Corrosion resistance	Marine grade — coastal to calm seashore (per AS 4312:2019)

Aperture Verification vs AS 3959:2018

AS 3959:2018 requires screening mesh to have a maximum aperture of **2 mm** and to be made of corrosion-resistant steel or bronze (aluminium is not permitted at BAL-40). Aperture = strand pitch – strand diameter:

- 18 strands/in: $(25.4 \div 18) - 0.25 = \mathbf{1.16\text{ mm}}$
- 16 strands/in: $(25.4 \div 16) - 0.25 = \mathbf{1.34\text{ mm}}$

Largest opening **1.34 mm** — **approximately 33% below the 2 mm limit**. Material is corrosion-resistant 316 stainless steel. Both criteria are met.

COMPLIANT for BAL-12.5, BAL-19, BAL-29 and BAL-40 — meets the deemed-to-satisfy mesh material and aperture requirements of AS 3959:2018 for window and door screening.

NOT suitable for BAL-FZ (Flame Zone). At BAL-FZ, mesh is not a compliance solution; a fully flame-tested window/door system to AS 1530.8.2 (e.g. bushfire shutters) is required.

Installation Conditions for BAL-40 Compliance

- Screen must be fitted **externally** to the window/door.
- Screen frame must be metal, and fixed to the building with **metal fixings**.
- At BAL-40, **both the openable sash and the fixed glass panels** must be screened.
- Regular cleaning/maintenance is required to preserve corrosion resistance.

Compliance basis: aperture and material meet the deemed-to-satisfy mesh provisions of AS 3959:2018. Aperture figures are calculated from the nominal weave and strand specification and should be confirmed against physical measurement; a 316 material (mill) certificate should be retained on file to substantiate the marine-grade claim. This statement covers the mesh only, not the complete screen assembly. Final bushfire compliance of any building is subject to a site BAL assessment and the current edition of AS 3959. Prepared for TradeBase Australia.