Warrior Window® Fixed -/30/- Specification

BAL: FZ | Safety Glass | Fixed Window/Screen/Partition

Performance Requirement

The Warrior Window® Fixed -/30/- Fire Resistant Safety Glass systems shall be supplied and installed in accordance with AS 3959 *Section 9* to the sides of the building designated in to require Flame Zone Construction to achieve an FRL of -/30/- in accordance with AS 1530.4:2014.

The Flame Zone systems shall also be installed in accordance with the manufacturer's (Bushfire Control) recommendations, any construction guidelines published in the Planning for Bush Fire Protection 2018 (PBP 2018), NSWRFS guidance documents and any applicable requirements of the building specific bushfire assessment report.

Note: The Warrior Window® Fixed -/30/- Fire Resistant Safety Glass systems are non-load bearing. Surrounding structure should be designed to carry any required supporting loads. Structural adequacy with respect to FRL is not required for the glazed system in accordance with NCC 2022 S1C6 (NCC2019 Schedule 5 – Clause 6).

Product Specified

Proprietary system: Warrior Window® Fixed -/30/- Fire Resistant Safety Glass System by Bushfire Control T: 1800 218 258; info@bushfirecontrol.com.au

The system consists of a propriety cold formed and seam welded steel profile, incorporating beading with concealed fixing and clear Class A Safety Glass.

System Parameters

1) Glass specification:

Characteristic	Internal (SGU)	External (DGU)
Product Name	Pyroswiss	Pyroswiss Climaplus
Thickness (nominal)	6 mm	24 mm
Weight	15 kg/m^2	31 kg/m^2
Sound Reduction Rw (EN140-3)	32 (-2, -2) dB	45 (-2, -2) dB
Light Transmission (EN410)	89%	73%
U-value (EN673)	5.7 W/m^2K	1.1 W/m^2K
SHGC (g Value) (EN410)	0.85	0.58

2) Fire performance (AS1530.4:2014) – -/30/- (or E30)
3) Air leakage performance – N/A
4) Maximum clear opening sizes:
    a) Single-pane – 1690mm(W) x 2890mm(H) (max. 4.17m^2(A))
    b) Multi-pane – 3965mm(H) (unlimited width) with appropriate expansion joints, mullions and transoms
5) Frame profile – 70mm(W) x 50mm(D)
6) Frame material:
    a) Galvanised steel
    b) Stainless steel
7) Approved supporting construction:

a) Masonry
b) Concrete
c) Fire rated plasterboard with steel or timber stud

8) Powder-coating – Standard range '*Dulux Duralloy*' colours (other colour ranges available on request)

Required Ancillary Items

1) Maintenance: All Warrior Window® systems shall be maintained by competent technicians in accordance with AS 1851 and the manufacturer's recommendations.
2) Safety decals: These can be installed external on the glazing in accordance with EN testing or can be factory etched internally into the glass assembly.
3) Tinting and visibility control: Glass should include translucent privacy film or tinted DGU.

Applications

- AS 3959 – Section 9 – Bushfire Attack level – Flame Zone (BAL-FZ)

Note: Some applications may require a Performance Solution to be compliant. Please check with your Certifier prior to specifying this product.

Installation

The Warrior Window® Fixed -/30/- Fire Resistant Safety Glass systems shall be installed, certified, commissioned and tagged in accordance with AS 3959:2018 *Section 9* and the manufacturer's (Bushfire Control) instructions by an ISO9001 Quality, ISO18001 WHS and ISO14001 Environment Accredited manufacturer.

The glazed partition shall be installed into a fire rated wall structure of a type listed in System Parameters Clause 7) of this document. The FRL of the wall shall be at least 30/30/30 when tested in accordance with AS *3959 Section 9 Clause 4* and AS 1530.4:2014. Appropriate expansion gaps shall be included between the glazed partition and the wall structure and approved fire rated mastic and/or silicone shall be applied to this gap.

Commissioning

Once installed it shall be demonstrated that the glazing system includes the appropriate markings in the bottom of each glazed panel indicating glass model and toughening standard.

Certificates of Compliance shall be issued by the sub-contractor in accordance with NCC2022 A5G3 & A5G4 (NCC2019 A5.2 & A5.3) and AS1905.2:2005 *Clause 7 Certification*.

All details and approvals are current as of the date displayed. This document supersedes all previous versions.