

Warrior FZ Window and Door Specification:

-/30/- Glazing

PERFORMANCE REQUIREMENT:

The Warrior FZ Window and Door glazing systems shall be supplied and installed in accordance with AS3959 Section 9 to the sides of the building designated in to require Flame Zone Construction to achieve an FRL of -/30/- in accordance with AS1530.4:2014. The Flame Zone systems shall also be installed in accordance with Bushfire Control's (manufacturer) 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 FZ Window and Door glazing 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 2019 Schedule 5 – Clause 6.

FIXED PANEL		
Characteristic	SGU	DGU
Glass thickness (nominal)	6mm	24mm
Sound Reduction (Rw glass only, EN140-3)	32 (-2, -2) dB	33 dB
Light Transmission (EN140)	89%	78%
U-value (glass only, EN673)	5.7 W/m ² K	1.6 W/m ² K
SHGC (G value, EN410)	0.85	0.57

DOOR		
Characteristic	SGU	DGU
Glass thickness (nominal)	6mm	24mm
Sound Reduction (Rw glass only, EN140-3)	32 (-2, -2) dB	33 dB
Light Transmission (EN140)	89%	78%
U-value (glass only, EN673)	5.7 W/m ² K	1.6 W/m ² K
SHGC (G value, EN410)	0.85	0.57

PRODUCT SPECIFIED

Proprietary system: Warrior FZ Window and Door -/30/- Glazing 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:

- a) Fire Performance:
 - i) Fixed and lights:
 - i. Internal application; -/30/-, Glass Pyroswiss
 - ii. External application; -/30/-, Glass Pyroswiss DGU
 - ii) Door (both single and double):
 - i. Internal application; -/30/-, Glass Pyroswiss
 - ii. External application; -/30/-, Glass Pyroswiss DGU
- b) Maximum sizes:
 - i) Fixed (-/30/-):
 - i. Single window – 2760mm H x 1290mm W or 2300mm H x 1560mm W

- ii. Partition – up to 3.5m height and unlimited width appropriate expansion joints and mullions
 - ii) Door (-/30/-):
 - i. Single Door – 2700mm H x 1250mm W or 2450mm H x 1400mm W
 - ii. Double Door – 2540mm H x 1340mm W per leaf (total 2680mm W)
 - iii) Lights (-/30/-):
 - i. Top light – total system height up to 3.5m
 - ii. Side lights - up to 3.5m height and unlimited width appropriate expansion joints and mullions
- c) Dimensions frame profile:
 - i) Fixed and lights:
 - i. Internal application – 50mm deep x 70mm wide
 - ii. External application – 500mm deep x 70mm wide
 - ii) Door frame (both single and double)
 - i. Internal application – 50mm deep x 70mm wide
 - ii. External application – 50mm deep x 70mm wide
 - iii) Door leaf (both single and double)
 - i. Internal application – 50mm deep x 70mm wide
 - ii. External application – 50mm deep x 70mm wide
- d) Framing types:
 - i) Galvanised (standard)
 - ii) Stainless steel (optional)
- e) Supporting construction type:
 - i) Masonry
 - ii) Concrete
 - iii) Fire rated plasterboard with steel or timber stud
- f) Door Hardware:
 - i) Lock – Proprietary Mortice
 - ii) Handle – Kaba N602 & N601 series
 - iii) Closer
 - i. Single leaf – Dorma TS93
 - ii. Double leaf – Dorma TS93 GSR
- g) Gasketing – Smoke Control proprietary integrated black rubber gasket.
- h) System Weight:
 - i) Fixed glazing
 - i. SGU; Nominally 15 kg/m²
 - ii. DGU; Nominally 31kg/m²
 - ii) Door; 2400mm H x 1200mm W; Nominally 80kg
- i) Powder coating: Standard range Dulux Duralloy Colours. Other colour ranges available on request.

Ancillary items required:

- j) Maintenance: All Visioneering systems shall be maintained by competent technicians in accordance with AS1851 and the manufacturers recommendations
- k) 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.
Tinting and visibility control: Glass shall include translucent privacy film or tinted DGU.

APPLICATIONS

- AS3959 – Section 9 – Bushfire Attack level – Flame Zone (BAL-FZ)

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

INSTALLATION

The Warrior FZ Window and Door glazing systems shall be installed, certified, commissioned and tagged in accordance with AS3959:2018 Section 9 and Bushfire Control (manufacturer) instructions by an ISO9001 Quality, ISO18001 WHS and ISO14001 Environment Accredited manufacturer.

Glazed Partitions

The glazed partition shall be installed into a fire rated wall structure of a type listed in System Parameters Clause e) of this document. The FRL of the wall shall be at least -/30/30 when tested in accordance with AS3959 Section 9 Clause 4 and AS1530.4:2014. 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.

Glazed Fire Doors

Threshold should be of fire rated or non-combustible construction. Clearances between the bottom of the glazed door leaf and the floor shall be in accordance with AS3959 Section 9 and include Kilargo IS3080si silicone draft seal at base.

Note: The use of timber or other thresholds is not currently permitted in accordance with NSW RFS guidance documentation.

COMMISSIONING

Glazed Partitions

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.

Glazed Fire Doors

Commissioning testing shall be conducted to verify opening forces and the results recorded on the commissioning certificate provided in an applicable Operations and Maintenance Manual or equivalent report. The glazed fire door systems shall be then tagged with appropriate compliant tag in accordance with AS3959 Section 9.

Certificates of Compliance shall be issued by the sub-contractor in accordance with National Construction Code A2.2.

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

