Warrior Shutter® FZ Motorised Specification

BAL: FZ | Single Coil | Small Span

Performance Requirement

Warrior Shutter® FZ Motorised shall be supplied and installed in accordance with AS3959:2018 Section 3.7.

When fire tested in accordance with AS1530.8.2 it shall provide protection from a minimum Bushfire Attack Level (BAL) of Flame Zone (FZ). The fabric barrier shall have fire hazard properties of a Group 1 rating when tested in accordance with NCC2022 S7C4 (NCC2019 Spec C1.10: 4).

Product Specified

Warrior Shutter® FZ Motorised by Bushfire Control T: 1800 218 258; info@bushfirecontrol.com.au

System Parameters

1) Fire performance (AS1530.8.2) – BAL: FZ
2) Air leakage performance (AS1530.7:2007) – 0.115 $m^3/min/m^2$ @ 200°C, 25Pa (fabric only)
3) Maximum size – 8000m(W) x 4000mm(H) (max. $24m^2$(A))
4) Component dimensions
    a) Headbox – 165mm(H) x 165mm(D)
    b) Side Guides – 100mm(W) x 50mm(D)
5) Deployment speed – nominally 150mm/s
6) Power requirements – 240V 10amp GPO, peak current draw 2.1amps per motor
7) Maximum cable run between controller and shutter motor:
    a) Cable run up to 14000mm(L) – $1.5mm^2$ 2 core cable
    b) Cable run up to 25000mm(L) – $2.5mm^2$ 2 core cable
8) Alarm input – 0V nominally closed contacts
9) Maximum pressure resistance:
    a) Deploying – 0Pa
    b) Deployed – 20Pa
10) System weight:
    a) System sizes up to 3000mm(H) – 20kg per metre width
    b) System sizes up to 4000mm(H) – 25kg per metre width
11) Approved supporting construction:
    a) Masonry
    b) Concrete
    c) Fire rated plasterboard with steel or timber stud
12) Approved installation configurations:
    a) Headbox:
        i) Face fixed to the wall
        ii) Fixed under the slab/into the wall
    b) Side Guides:

i) Face fixed to the wall

ii) Fixed in the opening

Required Ancillary Items

1) Control System: Shall allow fail safe operation on receipt of an alarm signal and automatic rewind on reset of the alarm without the assistance of a technician. The Control system shall also provide an *anti-tilt* system to prevent uneven rewinding of the product and subsequent self-destruction.

2) Battery back-up: Shall be installed to reduce the likelihood of nuisance deployments. Standard battery time is 4 hours, extended periods available on request.

3) Fire-rated corner posts: shall be installed at fire shutter junctions in strict accordance with the manufacturer's approvals.

4) Third-Party Product Listing: The product shall be manufactured under the Third-Party Product Listing scheme known as the Warnock Hersey Mark and shall bear the Warnock Hersey Certification Mark.

5) Maintenance: All fire shutters shall be listed on the Essential Services Register and shall be maintained by competent technicians in accordance with AS1851 and the manufacturer's recommendations.

Applications

- AS3959:2018 Part 9 Flame Zone Requirements, Part 9.5.1 Bushfire Shutters (a) & (b).
- Units installed over window openings are compliant with AS3959:2018, Part 9.5.2 (a)
- Units installed over door openings are compliant with AS3959:2018, Part 9.5.3 (a)
- Units installed over sliding door openings are compliant with AS3959:2018, Part 9.5.4 (a)

Installation

Fire Shutters

The fire shutter shall be installed, certified, commissioned and labelled in accordance with AS1905.2 by an ISO9001 Quality, ISO18001 WHS and ISO14001 Environment Accredited manufacturer.

When installed the system shall consist of a single overhead barrel for the full width of the opening. While some Registered Testing Authorities provide Formal Opinions regarding the expected fire resistance level of fire shutters, they do not discuss nor provide a warranty regarding their reliability. Experience shows that some manufacturer designs of fire shutters do not operate reliably once installed and attract extraordinarily high maintenance costs. For this reason, multiple barrel, overlapped fire shutters are deemed not equivalent to this specification on this project and shall not be substituted for a single barrel continuous span system.

Threshold

The shutter must deploy onto a fire rated or non-combustible threshold as per requirements of AS1905.2:2005 and AS1530.8.2 2018. The minimum permitted overlap on the threshold is 25mm.

Commissioning

Once installed it shall be demonstrated that the system shall fail safe close on loss of power. On reset of power and the deployment switch the system shall automatically rewind to its standby position without the assistance of an occupant or technician.

The fire shutters must be tested a minimum of 3 consecutive times on deployment switch without failure.

Certificates of Compliance shall be issued by the sub-contractor in accordance with NCC2022 Volume 2 A2G2 & A2G3 (NCC2019 A2.2 and A2.3) and AS1905.2:2005 *Clause 7 Certification*.

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