# Warrior FZ Shutter – Motorised

## Integrity only single coil small span fire curtain specification

### PERFORMANCE REQUIREMENT:

The vertical fire curtains shall be supplied and installed in accordance with AS3959 Part 3.7. When fire tested in accordance with AS1530.8.2 they shall provide a minimum Fire Resistance Level (FRL) of -/30/- and radiation transmission of no more than 15kW/m2 measured at 365mm at 30 minutes. The fabric barrier shall have fire hazard properties of a Group 1 rating when tested in accordance with NCC Specification C1.10 Clause 4 Wall and Ceiling linings.

The fire curtains shall resist a pressure differential of no more than 20 Pa when fully deployed.

### PRODUCT SPECIFIED

Warrior FZ –motorised fire curtain by Bushfire Control T: 1800 218 258; info@bushfirecontrol.com.au

System parameters;

a) FRL -/30/- AS1530.8.2
b) Maximum size;
    i) 8m W x 3m H
    ii) 6m W x 4m H
    iii) 24m$^2$
c) Deployment speed nominally 150mm/s
d) Dimensions
    i) Headbox – 165mm H x 165mm D
    ii) Side Guide – 100mm W x 50mm D
e) Power requirements – 240v 10amp GPO, peak current draw 2.1amps
f) Alarm input, operational switch - 0V nominally closed contact
g) Pressure resistance maximum;
    i) 0Pa when deploying
    ii) 20Pa when deployed
h) System weight;
    i) 20kg/m of system width up to 3m H
    ii) 25kg/m of system width up to 4m H
i) Supporting construction type;
    i) Masonry
    ii) Concrete
    iii) Fire rated plasterboard with steel or timber stud.
j) Approved installation configuration;
    i) Headbox;
        i. Face fixed to the wall
        ii. Fixed under the slab/into the wall
    ii) Side guides;
        i. Face fixed to the wall
        ii. Fixed in the opening

Auxiliary items required;

i) Manual shutter system requires deployment by hand. Motorised shutters to deploy via a control switch, or fail-safe deployment due to loss of power.

ii) Battery back up; can be installed to reduce the likelihood of nuisance deployments and allow 5 complete open-close cycles for automatic shutters.

iii) Fire Rated Corner posts may be installed at fire curtain junctions if required (installed by others), and in strict accordance with the manufacturers approvals.

iv) 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.

v) Maintenance: All fire curtains shall be maintained by competent technicians in accordance with AS1851 and the manufacturers recommendations

## APPLICATIONS

AS3959 Part 9 Flame Zone Requirements, Part 9.5.1 Bushfire Shutters (a) & (b).

- Units installed over window openings are compliant with AS3959, Part 9.5.2 (a)
- Units installed over door openings are compliant with AS3959, Part 9.5.3 (a)
- Units installed over sliding door openings are compliant with AS3959, Part 9.5.4 (a)

## INSTALLATION

*Fire Curtains*

The fire curtains shall be installed, certified, commissioned and labelled in accordance with AS1905.2 -2005 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 in regards to the expected fire resistance level of fire curtains, they do not discuss nor provide a warranty in regards to their reliability. Experience shows that some manufacturer designs of fire curtains do not operate reliably once installed and attract extraordinarily high maintenance costs. For this reason, multiple barrel, overlapped fire curtains are deemed not equivalent to this specification on this project and shall not be substituted for a single barrel continuous span system.

*Threshold*

The curtain must deploy onto a fire rated or non-combustible threshold as per requirements of AS1905.2:2005 and AS1530.8.2 2018. Minimum permitted overlap on 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 (motorised curtains only).

The fire curtains 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 National Construction Code A2.2 and A2.3 Evidence of Suitability and AS1905.2:2005 Clause 7 Certification.

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