# Fibershield -/60/60

Fully insulated -/60/60 single coil fire shutter specification

## PERFORMANCE REQUIREMENT:

The vertical fire shutter shall be supplied and installed in accordance with AS1905.2:2005 except that the primary means of activation is to be from an AS1670.1:2018 smoke detection system. When fire tested in accordance with Clause 3 Determination of Fire Resistance they shall provide a minimum Fire Resistance Level (FRL) of -/60/60.

The fire curtains shall resist a pressure differential of no more than 50 Pa

## PRODUCT SPECIFIED

Fibershield -/60/60 fire shutter by Smoke Control T: 1300 665 471; <u>info@smokecontrol.com.au</u> System parameters;

- a) -/60/60 FRL AS1530.4:2014
- b) Smoke leakage (fabric only) : ≤ 25m3/hour EN12101-1 (Fabric permeability only).
- c) Maximum size;
  - i) 4300mm(W) x 4350mm(H) (maximum system size)
  - ii) 4000mm(W) x 4000mm(H) (maximum opening size)
- d) Deployment speed; nominally 90mm/s
- e) Dimensions
  - i) Headbox;
    - i. Heights up to 3m; 382mm W x 350mm H
    - ii. Heights up to 4m; 460mm H x 430mm W
  - ii) Side Guide;
    - i. 200mm W x 81.5mm D (headbox extends a further 47mm past outside edge of guide)
- f) Power requirements;
  - i) Sizes up to 4000mm(W), 1 of 240v 10amp GPO, peak current draw 2.1A
- g) Alarm input 0V nominally closed contacts
- h) Pressure resistance maximum;
  - i) Deploying 10Pa
  - ii) Deployed; 50Pa

Note: for applications where pressure differentials are expected consideration should be given to the induced loading on the surrounding structure of this pressure to ensure appropriate restraint of the system.

### i) System weight;

- i) 100kg/m of system width up to 3m H
- ii) 137.5kg/m of system width up to 4m H
- j) Supporting construction; Masonry or Concrete only (60/60/60) minimum thickness 150mm.
- k) Approved installation configuration;
  - i) Headbox;

i. Face fixed to the wall

- ii) Side guides;
  - i. Face fixed to the wall

Auxiliary items available;

- I) Control system: Shall allow fail safe operation on receipt of a general building alarm signal and automatic rewind on reset of the alarm from the Fire Indicator Panel (FIP) without the assistance of a technician.
- m) Staged Deployment: Staged deployment shall allow the fire curtain to deploy to 2m above the finished floor level, pause for 30 seconds and then deploy to the floor (other configurations available on request).
- n) Battery backup; Shall be installed to reduce the likelihood of nuisance deployments and allow 5 complete open-close cycles.
- Rewind switches (operating ΔPa = 10Pa): shall be installed on both sides/one side of the nominated fire curtains. They shall allow the system to rewind no more than 2.1m and redeploy within 20 seconds. (other configurations available on request).

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- p) Exclusion Zone Sensors; IRS36 shall be installed in accordance with Smoke Control's recommendations to protect each fire curtain asset during normal building use and significantly increase the likelihood of full deployment when in fire mode.
- q) Sounders and strobes: Shall be installed on both sides/on the same side as the egress path

Maintenance: All fire curtains shall be listed on the Essential Services Register and shall be maintained by competent technicians in accordance with AS1851:2012 and the manufacturers recommendations

#### APPLICATIONS

- Protection of openings from SOU on to common corridor (NCC C3.11)
- Protection of openings in external walls (NCC C3.4)
- Protection of openings in fire compartment walls (NCC C3.5)
- Non-required stairways, ramps and escalators (NCC D1.12 & Spec D1.12)
- Construction of proscenium walls (NCC Specification H1.3)
- Servery openings in smoke-proof walls health-care and residential care buildings (NCC Spec C2.5)

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

#### INSTALLATION

#### Fire Curtains

The fire shutters shall be installed, certified, commissioned and tagged in accordance with AS1905.2:2005 by an ISO9001 Quality Accredited manufacturer.

#### Threshold

Unless addressed as part of an appropriate performance solution the curtain must deploy onto a fire rated or noncombustible threshold as per requirements of AS1905.2:2005 and AS1530.4:2014. Maximum gap permitted at threshold 25mm.

#### Fire Rated Bulkheads

System is test directly fixed to a fire rated masonry or concrete wall structure. Top fixing of the shutter is not possible. Minimum wall thickness of 150mm.

#### COMMISSIONING

Once installed it shall be demonstrated that the system shall fail safe close on loss of power using mains power in combination with battery backup and on the receipt of an alarm signal. On reset of power and the alarm signal the system shall automatically rewind to its standby position without the assistance of an occupant or technician.

The fire curtains shall also be commissioned in conjunction with the building's smoke management system. The smoke management system shall be balanced to operate without adverse effects to the fire curtain. The fire curtains must be tested a minimum of 3 consecutive times on general building alarm without failure.

The building's smoke management system shall not impede the operation of the fire curtain. A time delay of 60 seconds shall be incorporated into the smoke management system before it operates to allow the fire curtain to deploy to its fire mode position without interference. This shall be programmed within the Fire Indicator Panel. Consideration shall be made for the staged deployment of the fire curtain.

Similarly, a time delay of 60 seconds shall be incorporated into the reset of the alarm signal to fire curtain to ensure the smoke management system has ceased operation and the effects of pressure differentials have been dispersed prior to rewind of the curtain.

Certificates of Compliance shall be issued by the sub-contractor in accordance with National Construction Code 2019 A5.2 and A5.3 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.

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