Fyreslide® -/120/30 Sliding Fire Door Specification

Integrity & Insulation | Vermiculite Core | Automatic Operation

Performance Requirement

The Fyreslide® -/120/30 Sliding Fire Door shall be supplied and installed in accordance with the deem-to-satisfy building code requirements under NCC2022 C4D7 & AS 1905.1:2015 for fire sliding fire doors except that the primary means of activation is to be from an AS 1670.1:2018 smoke detection system.

When fire tested in accordance with AS1905.1:2015 Section 3 *Determination of Fire Resistance* it shall provide a minimum Fire Resistance Level (FRL) of -/120/30 and a radiant heat flux of no more than 0.6 kW/m^2 at 365 mm from the unexposed face of the curtain, 30 minutes into the Standard Fire Test.

Product Specified

Proprietary System: Fyreslide® -/120/30 Sliding Fire Door by Smoke Control T: 1300 665 471; info@smokecontrol.com.au

System Parameters

1) Fire performance (AS 1530.4:2014) – -/120/30 (or E120 I30)
2) Air leakage performance – no performance declared (system may be fitted with smoke seals)
3) Radiant heat flux performance (AS 1530.4:2014):

Time (min)	Radiant Heat Flux (kW/m^2) at:	
	365 mm	1000 mm
30	0.54	0.36
60	2.35	1.54
90	3.54	2.33
120	4.35	2.86

4) Maximum clear opening size – 7700mm(W) x 4900mm(H)
5) Required gaps and overlaps:
   a) Leading edge overlap:
      i) System sizes up to 7400mm(W) – min. 100mm
      ii) System sizes >7400mm(W) – min. 200mm
   b) Trailing edge overlap – min. 100mm
   c) Head overlap – min. 100mm
   d) Sill gap – between 3mm and 10mm including the floor covering and less than 25mm from the top of the non-combustible threshold (in accordance with AS 1905.1:2015)

Note: The threshold material shall be concrete or other non-combustible material unless an alternative form of construction has been subjected to the Standard Fire Test. The threshold must extend at least 100mm from the wall face and at least 150mm in each direction from the vertical plane of symmetry of the door (in accordance with AS 1905.1:2015)

6) Deployment speed – in accordance with NCC2022 C4D7 (1)(a) and AS 1905.1:2015 (varies with system size)
7) Power requirements:

a) Motor drive system – please contact technical@smokecontrol.com.au
b) Electromagnetic hold-open (if required) – 24 V DC, 70 mA or 12 V DC, 140 mA

8) Alarm input:
   a) Motor drive system – 0 V normally closed contacts
   b) Electromagnetic hold-open (if required) – 24 V supply

9) System weight:
   a) Manual – 44 kg/m^2
   b) Motorised – please contact technical@smokecontrol.com.au

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.

10) Approved supporting construction:
   a) Concrete (min. 190mm(T))

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

Required Ancillary Items

1) 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.
2) Electronic hold-open: Integrated 24V DC magnetic hold-open for compliance with NCC2022 C4D7 (1)(a).
3) Maintenance: All Fyreslide® systems shall be maintained by competent technicians in accordance with AS 1851 and the manufacturer's recommendations.

Applications

- Protection of openings in external walls in accordance with NCC2022 C4D5 (NCC2019 C3.4)
- Protection of openings in fire compartment walls in accordance with NCC2022 C4D6 (NCC2019 C3.5)
- Separation of fire compartment where it exceeds maximum size or volume in accordance with NCC2022 C3 (NCC2019 C2)
- Security separation between two areas

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

Installation

Sliding Fire Doors

The Fyreslide® -/120/30 Sliding Fire Door shall be installed, certified, commissioned and tagged in accordance with AS1905.1:2015 and Smoke Control's (manufacturer) instructions by an ISO9001 Quality, ISO18001 WHS and ISO14001 Environment Accredited manufacturer.

The system shall be installed into a fire rated wall structure of a type listed in System Parameters Clause 10) of this document. The FRL of the wall shall be at least 120/120/120 when tested in accordance with AS1530.4.

Threshold

Unless addressed as part of an appropriate performance solution the curtain must deploy onto a fire-rated or non-combustible threshold as per requirements of AS1905.1:2015 and AS1530.4:2014. The maximum gap permitted at the sill is as stated in System Parameters Clause 5)d) of this document.

Commissioning

Once installed it shall be demonstrated that the system shall fail-safe close on release/loss of power/the receipt of an alarm signal.

On reset of fire alarm and setting of the door back to magnetic hold-open device, door will be held open. The sliding fire door shall be tested a minimum of three consecutive times on general building alarm with no failure.

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.