Windowhalt Fusible link

Integrity only (-/120/-) single coil large span and high pressure fire curtain specification

PERFORMANCE REQUIREMENT:

The vertical fire shutters shall be supplied and installed in accordance with AS1905.2:2005, activation should be by UL approved 68 degree Centigrade fusible link located centre of the unit. When fire tested in accordance with Clause 3 Determination of Fire Resistance they shall provide a minimum Fire Resistance Level (FRL) of -/120/- 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.

Note: If system is being installed into a surrounding construction where the FRL of the construction is less than 90 minutes the maximum FRL the system can achieve is equal to the FRL of the wall. I.e a Windowhalt installed into a -/60/60 construction will achieve an FRL of no more than -/60/-.

PRODUCT SPECIFIED

Windowhalt fusible link fire shutter by Smoke Control T: 1300 665 471; info@smokecontrol.com.au or approved equivalent.

System parameters;

a) -/120/- FRL AS1530.4:2014
b) Smoke leakage: ≤ 75m3/hour AS1530.7:1998 (3.3 x 3.3m tested system).
c) Maximum size;
    i) 4m W x 4m H
d) Deployment speed nominally 150mm/s
e) Dimensions
    i) Headbox – 165mm H x 165mm D
    ii) Side Guide – 100mm W x 50mm D
f) Power requirements – none, gravity only system.
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

Ancillary items required; (delete not applicable)

i) 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.

a) 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 manufacturers recommendations

APPLICATIONS

- Protection of openings in external walls (NCC C3.4)
- Protection of openings from SOU on to common corridor (NCC C3.11)

Note: Windowhalt Fire Shutters have been used on projects requiring compliance with NCC volume 2 for class 1 & 10 buildings protection of openings on external walls in accordance with Clause 3.7.2.4 (c)(ii), as an acceptable construction. Please check with your certifier for acceptance of this system prior to specifying system.

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 Shutters

The fire shutters shall be installed, certified, commissioned and tagged in accordance with AS1905.2 -2005 and this Fire Engineering Report 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 shutters, they do not discuss nor provide a warranty in regards to their reliability.

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 AS1905.2:2005 and AS1530.4:2014. Maximum gap permitted at threshold 25mm.

Fire Rated Bulkheads

Installation of the fire shutters suspended below the concrete slab shall only be permitted if the system has been fire tested in this configuration and approved by a Registered Testing Authority for the sizes required in this project. That is; the suspension system fully exposed to fire from both directions without protection of a fire rated wall/bulkhead. If the system has not been fire tested in this configuration, a fire rated bulkhead shall be installed to support the fire shutter system. For clarity, the fixing of the fire shutter head box shall be directly to the fire rated bulkhead as per the fire tested prototype.

The fire rated bulkhead shall be installed as a 3-sided bulkhead (the forth side is provided by the concrete slab) to provide a minimum of -/120/120 fire resistance level when tested in accordance with AS1530.4 and provide complete encasement of the fire shutter suspension system. This configuration will allow for certification of any service penetrations which will also be required to be certified in accordance with AS4072.1:2005

COMMISSIONING

Once installed it shall be demonstrated that the system shall fail safe on simulation of activation of linked. Unit should be then tagged with appropriate AS1905.2:2005 compliant tag.

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.