Autofire® Specification: -/60/- Operable window

PERFORMANCE REQUIREMENT:

The Autofire® -/60/- operable awning window system shall be supplied and installed in accordance with the deem-to-satisfy building code requirements under NCC2019 C3.4 (a)(ii)(B) and Specification C3.4 for fire rated windows in openings close to boundaries and achieve an FRL of -/60/- in accordance with AS1530.4:2014. Automatic operation is initiated by proprietary integrated 68-degree Centigrade fusible link.

Note: The Autofire -/60/- operable window systems are non-load bearing. Surrounding structure should be designed to carry any required supporting loads. Structural adequacy with respect to FRL is not required for the glazed system in accordance with NCC 2019 Schedule 5 – Clause 6.

OPERABLE WINDOW		
Characteristic	**Internal (SGU)**	**External (DGU)**
Glass thickness (nominal)	6mm	24mm
Sound Reduction (Rw glass only, EN140-3)	32 (-2, -2) dB	45 (-2, -2) dB
Light Transmission (EN140)	89%	73%
U-value (glass only, EN673)	5.7 W/m2K	1.1 W/m²K
SHGC (G value, EN410)	0.85	0.58

PRODUCT SPECIFIED

Proprietary System: Autofire® -/60/- operable awning window system by Smoke Control T: 1300 665 471; info@smokecontrol.com.au

The system consists of a propriety cold formed and seam welded steel profile frame and operable sash, incorporating beading with concealed fixing and tested clear Class A safety Glass.

System parameters:

a) Fire Performance:
   i) Operable (-/60/-)
      i. Internal application; -/60/-, Glass Pyroswiss
      ii. External application; -/60/-, Glass Pyroswiss DGU

b) Maximum sizes:
   i) Operable (-/60/-)
      i. Single window – 850w x 1070h and 1100w x 860h per test report.

c) Dimensions frame profile:
   i) Overall profile
      i. Internal application – 50mm deep x 130mm wide
      ii. External application – 50mm deep x 130mm wide

d) Framing types:
   i) Galvanised

e) Supporting construction type:
   i) Masonry
   ii) Concrete

f) System weight:
   i) Operable glazing
      i. Internal; Nominally 15kg/m^2
      ii. External; Nominally 30 kg/m^2

g) Powder-coating: Standard range '*Dulux Duralloy*' Colours. Other colour ranges available on request.

Ancillary items required:

h) Maintenance: All Visioneering systems shall be maintained by competent technicians in accordance with AS1851 and the manufacturers recommendations
i) Safety decals: These can be installed external on the glazing in accordance with EN testing or can be factory etched internally into the glass assembly.
j) Tinting and visibility control: Glass should include translucent privacy film or tinted DGU.

APPLICATIONS

- Protection of openings in external walls & Acceptable methods of protection (NCC C3.2 & C3.4)
- Openings in external walls of fire-isolated exits (C3.8)
- Opening in bounding construction of SOU, Class 2, 3 and 4. (C3.11)
- Openings in external walls from the point of discharge of a fire isolated exit or on an external stairway or ramp (D1.7, D1.8)

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

INSTALLATION

The Autofire® -/60/- operable awning window system shall be installed, certified, commissioned and tagged in accordance with AS1905.1:2015 and Smoke Control Pty Ltd manufactures instructions by an ISO9001 Quality, ISO18001 WHS and ISO14001 Environment Accredited manufacturer.

Operable Window

The window shall be installed into a fire rated wall structure of a type listed in System Parameters Clause e) of this document. The FRL of the wall shall be at least -/60/60 when tested in accordance with AS1530.4. Appropriate expansion gaps shall be included between the glazed partition and the wall structure and approved fire rated mastic and/or silicone shall be applied to this gap.

COMMISSIONING

Operable Window

Once installed it shall be demonstrated that the glazing system includes the appropriate markings in the bottom of each glazed panel indicating glass model and toughening standard. Automatic closing should be demonstrated through release of window at maximum opening angle and unit should be observed to self-latch on release.

Certificates of Compliance shall be issued by the sub-contractor in accordance with National Construction Code A2.2.

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