Autofire -/60/- Specification

Integrity Only | Safety Glass | Operable Window (automatic closing)

Performance Requirement

The Autofire -/60/- Operable Fire Window shall be supplied and installed in accordance with the deem-to-satisfy building code requirements under NCC2022 C4D5 (1)(b)(ii) & Specification 12 (NCC2019 C3.4 (a)(ii)(B) & Spec 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 a proprietary integrated 68-degree Centigrade fusible link.

Note: The Autofire -/60/- Operable Fire 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 NCC2022 S1C6 (NCC2019 Schedule 5 – Clause 6).

Product Specified

Proprietary System: Autofire -/60/- Operable Fire Window 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

1) Glass specification:

Characteristic	Internal (SGU)	External (DGU)
Product Name	Pyroswiss	Pyroswiss Climaplus
Thickness (nominal)	6 mm	24 mm
Weight	15 kg/m^2	31 kg/m^2
Sound Reduction Rw (EN140-3)	32 (-2, -2) dB	33 dB*
Light Transmission (EN410)	89%	78%
U-value (EN673)	5.7 W/m^{2}K	1.6 W/m^{2}K
SHGC (g Value) (EN410)	0.85	0.57

* Reference Value

2) Fire performance (AS1530.4:2014) – -/60/- (or E60)
3) Air leakage performance – N/A
4) Maximum opening size – 1235mm(W) x 1235mm(H) (max. 1.17m^2(A))
5) Frame profile – 130mm(W) x 50mm(D)
6) Frame material:
    a) Galvanised steel
    b) Stainless steel
7) Approved supporting construction:
    a) Masonry
    b) Concrete
    c) Fire rated plasterboard with steel or timber stud
    d) Stopline -/60/- Fire Resistant Safety Glass

e) Visioneering® Fire Resistant Safety Glass

8) Gasketing – Smoke Control proprietary integrated black rubber gasket

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

Required Ancillary Items

1) Maintenance: All Autofire systems shall be maintained by competent technicians in accordance with AS1851 and the manufacturer's recommendations.

2) 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.

3) Radiation shielding: Additional protective layers to be integrated into the glass assembly to provide EMF / Xray / Ionizing radiation shielding. As per agreed performance specification.

4) Tinting and visibility control: Glass should include translucent privacy film or tinted DGU.

Applications

- Protection of openings in external walls & Acceptable methods of protection – NCC2022 C4D3 and C4D5 (NCC2019 C3.2 & C3.4)
- Openings in external walls of fire-isolated exits in accordance with NCC2022 C4D9 (NCC2019 C3.8)
- Opening in bounding construction of SOU, Class 2, 3 and 4 in accordance with NCC2022 C4D12 (NCC2019 C3.11)
- Openings in external walls from the point of discharge of a fire isolated exit or on an external stairway or ramp in accordance with NCC2022 D2D12 and D2D13 (NCC2019 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 Fire Window 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 7) of this document. The FRL of the wall shall be at least 60/60/60 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

Once installed it shall be demonstrated that the glazing system includes the appropriate markings at 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 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.