Visioneering® Specification: /60/60 Frameless Glazing

PERFORMANCE REQUIREMENT:

The Visioneering® -/60/60 frameless glazing system shall be supplied and installed in accordance with the deem-to-satisfy building code requirements under NCC2019 C2.7 and Specification C1.1. for fire rated walls or openings in fire rated wall and achieve an FRL of -/60/60 in accordance with AS1530.4:1997. Frameless silicone butt joint between adjacent panes and perpendicular panes (mitred corner) shall also be covered in the fire test approval.

Any door systems shall be installed in accordance with NCC C3.5 requirements and AS1905.2:2015 with the Visioneering door system achieving an FRL of -/60/30. Both systems shall also be installed in accordance Smoke Control Pty Ltd manufacture recommendations.

Note: The Visioneering -/60/60 glazing system are non-load bearing. Surrounding structure should be design 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.

FIXED PANEL		
Characteristic	**Internal (SGU)**	**External (DGU)**
Glass thickness (nominal)	31mm	49mm
Sound Reduction (Rw glass only, EN140-3)	43 (-2, -3) dB	TBA
Light Transmission (EN140)	81%	63%
Uvalue (glass only, EN673)	4.3 W/m^{2}K	1.4W/m^{2}K
SHGC (G value, EN410)	0.65	0.36

DOOR		
Characteristic	**Internal (SGU)**	**External (DGU)**
Glass thickness (nominal)	20mm	40-42mm
Sound Reduction (Rw glass only, EN140-3)	41 (-2, -2) dB	40 (-1, -4) dB
Light Transmission (EN140)	84%	77%
Uvalue (glass only, EN673)	4.7 W/m^{2}K	1.1 W/m^{2}K
SHGC (G value, EN410)	0.68	0.59

PRODUCT SPECIFIED

Visioneering® -/60/60 Frameless Glazing System by Smoke Control T: 1300 665 471; info@smokecontrol.com.au

The system consists of a propriety cold formed and seem welded steel profile, incorporating beading with concealed fixing and tested clear Class A safety Glass. Vertical joints between adjacent glass panes are nominally 4mm and sealed with an approved black FR silicone. Overall appearance of glass joint is nominally 32mm allowing for glass edge spacer bar. Doors are fully frames in steel profile.

System parameters;

a) Performance
   i) Fixed and lights
      i. Internal application; -/60/60, Glass Contraflam Structure 60
      ii. External application; -/60/60, Glass Contraflam Structure 60 Climaplus
   ii) Door (both single and double)
      i. Internal application; -/60/30, Glass Contraflam 30
      ii. External application; -/60/30, Glass Contraflam 30 Climaplus

b) Maximum sizes;
   i) Fixed (-/60/60)
      i. Single pane – 3000mm H x 1500mm W
      ii. Partition – up to 4m height and unlimited width appropriate expansion joints and mullions
   ii) Door (-/60/30)
      i. Single Door – 2520mm H x 1450mm W
      ii. Double Door – 2520mm H x 1250mm W per leaf (total 2500mm W)

c) Dimensions framing
   i) Fixed and lights
      i. Internal application – 65mm deep x 70mm wide
      ii. External application – 90mm deep x 70mm wide
   ii) Door frame (both single and double)
      i. Internal application – 65mm deep x 70mm wide
      ii. External application – 65mm deep x 70mm wide
   iii) Door leaf (both single and double)
      i. Internal application – 65mm deep x 70mm wide
      ii. External application – 65mm deep x 70mm wide

d) Framing types;
   i) Galvanised
   ii) Stainless steel (optional)
e) Supporting construction type;
   i) Masonry
   ii) Concrete
   iii) Fire rated plasterboard with steel or timber stud
f) Door Hardware:
   i) Lock – Approved mortice latch
   ii) Handle – Kaba N602 & N601 series
   iii) Closer
      i. Single leaf – Dorma TS93
      ii. Double leaf – Dorma TS93 GST
      iii. Drop Down Seal (Specific TBA)
g) Gasketing – Smoke Control proprietary integrated black rubber gasket
h) System weight;
   i) Fixed glazing
      i. Internal; Nominally 50kg/m^2
      ii. External; Nominally 84kg/m^2
   ii) Door; 2400mm H x 1200mm W; Nominally 150kg
i) Powdercoating: Standard range Dulux Duralloy Colours. Other colour ranges available on request.

Ancillary items required; (delete not applicable)

j) Maintenance: All Visioneering systems shall be maintained by competent technicians in accordance with AS1851 and the manufacturers recommendations
k) 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.
l) Radiation shielding: Additional protective layers to be integrated into the glass assembly to provide EMF / Xray / Ionizing radiation shielding. As per agreed performance specification.
m) Tinting and visibility control: Glass should include translucent privacy film
n) Electronic hold open: Integrated 24v DC magnetic hold open is available in the door closer mechanism, alarm signal by others. Must be installed with a physical door stop (by others) to prevent door over swinging and damaging integrated hold open device

APPLICATIONS

- Fire walls in accordance with NCC C2.7 and Specification C1.1
- Non-required stairways, ramps and escalators (NCC D1.12 & Spec D1.12)
- Openings in fire walls in accordance with NCC C2.7 and Specification C1.1

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 Visioneering glazing systems 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.

Threshold
Clearances between the bottom of the glazed door leaf and the floor shall be in accordance with AS1905.1:2015 - Clause 5.5.1. and as follows:

(a) Between the leaf and the top surface of the floor including any floor covering – not less than 3mm and not more than 10mm.
(b) Between the leaf and the top of the non- combustible threshold – not more than 25mm.

Any floor coverings across the threshold should be in accordance with AS1905.1:2015 – Clause 5.5.1. Certification these floor coverings is by others.

COMMISSIONING

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. Door systems shall be then tagged with appropriate compliant tag in accordance with AS1905.1:2015

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.