VISIONEERING -/90/90

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FIRE RATED GLAZING



Visioneering® represents total freedom of design with virtually any combination of fire, smoke, sound, energy, light and security requirements for you and your project

Our Australian Made fire-resistant glazing systems are manufactured using proprietary steel profiles, providing excellent durability when compared to aluminium systems. Steel windows and doors are an excellent design choice for modern and historic buildings alike.

- Fire tested in accordance with AS1530.4
- Fire and smoke containment -/90/90 Sm
- Available with fully glazed fire door (-/60/30)
- Fully concealed fixings
- Slimline profile
- Stainless steel frame option
- Clear class A safety glass
- Acoustic performance
- Security performance
- Energy performance

VISIONEERING
FIRE RATED GLAZING

AUSTRALIAN MADE

SMOKE CONTROL

VISIONEERING –/90/90 Fire Rated Glazing

INTRODUCTION

Fire rated glazing solutions depend upon systems and are always fire tested together with frames, hardware, fixings and glass. Smoke Control offers the largest range of approvals to support the largest range of system options for almost all designs and budgets.

When selecting the right system our technical department is happy to work with you to discuss all design options with the aim of optimising the specification to achieve the right balance of performance, aesthetics, cost and compliance.

While the Visioneering® –/90/90 fire rated glazing system is a Deemed-to-Satisfy solution, it may also be used as a cost effective Performance Solution for many applications. Please contact our technical department to discuss your project specific requirements.

COMPLIANCE

Visioneering® –/90/90 fire resistant glazing can be supplied, installed and certified for fire ratings up to -/90/90 in accordance with AS1530.4. The system also provides an 'Sm" rating as a smoke containment barrier.

Visioneering® –/90/90 fire resistant glazing can achieve various U values, Rw ratings, and Light Transmission (Lt) depending on the configuration used.

Visioneering® fire resistant fully glazed doors (FRL -/60/30) can be incorporated into the Visioneering® –/90/90 fire rated glazed partition. Single and double doors are available with or without with mid height transoms and the frames can be powder coated in any specified colour.

The glasses used in the Visioneering® –/90/90 system are are high quality European Class A safety glasses and fully labelled.

PERFORMANCE DATA		
FIXED PANEL		
Characteristic	**Internal (SGU)**	**External (DGU)**
Glass thickness (nominal)	45mm	58mm
Sound Reduction (Rw glass only, EN140-3)	47 (-2, -3) dB	43 (-2, -3) dB
Light Transmission (EN140)	80%	73%
U-value (glass only, EN673)	3.5 W/m^{2}K	1.1W/m^{2}K
SHGC (G-value, EN410)	0.63	0.58
DOOR		
Characteristic	**Internal (SGU)**	**External (DGU)**
Glass thickness (nominal)	45mm	58mm
Sound Reduction (Rw glass only, EN140-3)	46 (-2, -3) dB	43 (-2, -2) dB
Light Transmission (EN140)	80%	73%
U-value (glass only, EN673)	3.5 W/m^{2}K	1.1W/m^{2}K
SHGC (G-value, EN410)	0.63	0.58

What you need to know

For your safety, Smoke Control does not substitute well respected and quality glass for no name products.

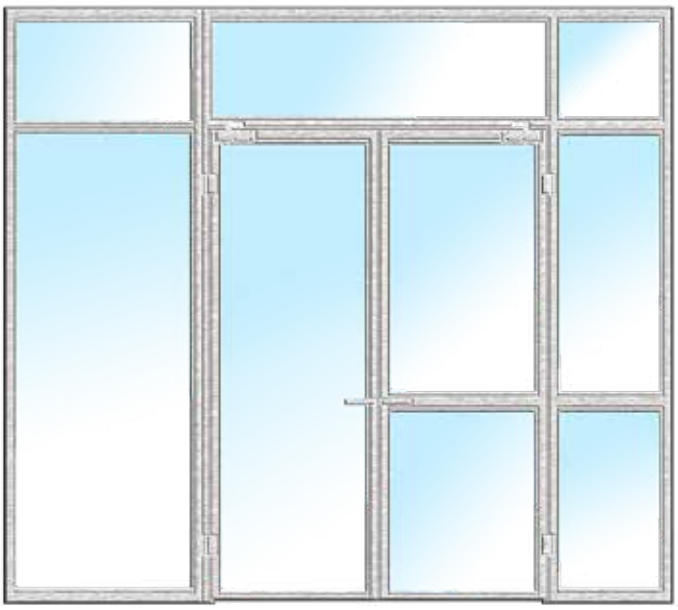
Visioneering® systems are clearly labelled with the brand, fire rating and safety glass test methods.

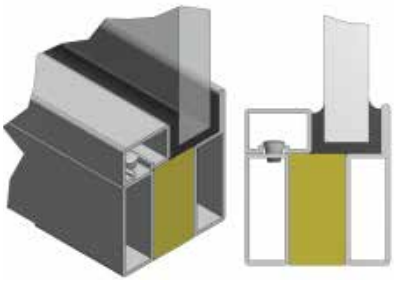
Glass identification looks exactly like this for easy verification on site;

VETROTECH SAINT-GOBAIN INT. A.
CONTRA FLAM
60
EN 12543
EN 14449
ID : 26

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FUNCTION





Example of various Visioneering -/90/90 configurations available
Single door leaves also available

SYSTEM DESCRIPTION

The Visioneering® –/90/90 system consists of high quality fire resistant clear safety glass and proprietary steel framing system. The slimline steel framing is thermally separated by the nature of its design to achieve a fully insulated fire resistance level of -/90/90 when tested as a complete system. Fully glazed fire doors can be incorporated into the system and provide a fire resistance level of -/60/30. The framing system is available powder coated to any standard powder coat colour or available in stainless steel to your specified finish.

When used in external applications double glazed units are supplied as standard. Contact our technical department for product performance data.

HARDWARE AND GASKETING

The system is supplied with black glazing gaskets appropriate for the required fire rating. Approved hardware must be used on the Visioneering® –/60/30 Doors. All fire doors are supplied with black smoke seal gaskets incorporated into the frame and door leaf profile as standard. Door bottom seals are optional and must be from our approved hardware list.

INSTALLATION

In line with Smoke Control's mission to provide customers with reliable solutions, the Visioneering –/90/90 system is installed by our fully trained and approved installer network.

MAINTENANCE

As with all Essential Services the Visioneering® –/90/90 fire resistant glazing system should be maintained in strict accordance with our documented procedures by fully trained and competent technicians. Smoke Control offers a comprehensive maintenance an annual re-certification program. Contact our maintenance department for details.

HOW TO SPECIFY

Proprietary item by Smoke Control 1300 665 471. All fire resistant glazed partitions, curtain walls, and doors shall be Visioneering® -/90/90 or -/60/30 door systems. Hardware shall be used from Smoke Control's approved hardware list with the functional requirements as per the Door Hardware Schedule. The glazing gasket shall be black and integral draft, acoustic and smoke seals shall also be black. The framing system shall be powder coated according to the finishes schedule.

WE BELIEVE PEOPLE DESERVE TO WORK & LIVE IN SAFE & BEAUTIFUL BUILDINGS

AUSTRALIAN MADE

VISIONEERING –/90/90 Fire Rated Glazing

APPLICATIONS

Visioneering® –/90/90 fire rated glazed partitions and doors are heavy duty and ideal for use in high traffic areas and in non-fire rated applications (standard glass can be installed into the steel frames) such as;

- Universities
- Train stations
- Shopping Centres
- Nursing homes
- Prisons
- Airports
- Casinos



ACCESSORIES

- Magnetic hold open
- Approved door closers
- Approved mortice locks and handles
- Door bottom smoke seals

SIZES	
Maximum Glass sizes	
Single Frame	3600mm H x 1500mm W
Partition	up to 4m height and unlimited width appropriate expansion joints and mullions
Weight	Internal; Nominally 94.5kg/m^2 External; Nominally 97kg/m^2
Maximum Door Sizes	
Single door	2440mm H x 1067mm W
Double door	2440mm H x 1067mm W per leaf (total 2134mm W)
Weight	Internal; Nominally 94.5kg/m^2 External; Nominally 97kg/m^2

GENERAL INFORMATION

TECHNICAL SUPPORT



Smoke Control offers obligation free technical support and pricing throughout your design and documentation stage so you can accurately prepare your budgets through value engineering.

You can also download the set of specifications, drawings and technical data from our website www.smokecontrol.com.au.

Contact our technical department to discuss your project requirements, or feel free to arrange a meeting.

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A LITTLE MORE ABOUT US...

Smoke Control was established in 2003. We partner with leading local and international organisations to work with the new performance-based design environment - in addition to the traditional prescriptive environment - designing and installing systems to meet the challenging fire and smoke control demands of modern buildings.

Constant research and development continue to enhance our offering of fire windows, fire shutters and fire & smoke curtains, bringing the most innovative technology to both regular and unique project challenges. If you cannot find what you are looking for, please contact our team as we may already have a solution for you.

Smoke Control services all regions in Australia and New Zealand via our own offices and people. International customers can contact our Australian office by phone or email for your nearest distributor.

SMOKE CONTROL

We believe people deserve to work & live in safe & beautiful buildings