

**SPECIFICATION
FIRE RATED VERTICAL PANELS
FRL 60/60/- (CONFORMS TO -/60/-)**

SCOPE OF WORK

The subcontractor shall be required to supply Glass Block Technologies International accredited labour, or similar approved persons, and Glass Block Technologies International proven materials for the successful erection of glass block panels to comply with all specifications and drawings related to this project. This will include the complete Ezylay Mortar System (for fire rated panels) or equal and glass blocks that reach the standard as set below and installed in accordance to CSIRO Opinion FCO-2115 and FCO-2444. Complete test reports, opinions and drawings are available on request.

Upon completion, a Glass Block Technologies International accredited inspector to verify compliance to the above tests will inspect the panels. A Conformity Certificate and identification plate will be issued upon approval.

STANDARD

Fire Resistant Level of 60/60/- in accordance to AS 1530.4-1997.

COMPLIANCE CERTIFICATE

Upon completion, Glass Block Technologies International will issue a signed and dated compliance certificate stating the Fire Resistance Class, Standard and Test numbers, for submission to the relevant building inspectorate. All Fireproof glazing will be tagged to verify conformity.

NB: If a Compliance Certificate is not issued – then the panel may be deemed as non-compliant.

MATERIALS

Glass Blocks *(fill in details & delete other block sizes when specifying)*

Manufacturer: _____

Model: _____

Size: _____

Pattern: _____

Colour: _____

Seves S.p.A guarantees that the technical, dimensional and aesthetic features of its products meet relevant regulations for each characteristic (DIN 18175/77, EN 1051/1, EN 1051/2)

Seves production, in according to the European Regulations EN 1051-1, belong to Class 1, which is the highest possible quality level.

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Physical properties - Properties of Standard 190x190x80mm Clear Glass Block

Weight/m ² (KN) Load bearing properties own weight	~ 0.75
Light transmittance %	80.2
Light reflectance %	13.4
Light absorbance %	6.4
Sound Insulation	40dB
Thermal Insulation	2.81 W/m ² °K
Fire Resistance (AS 1530.4-1997)	FRL -/60/-

Fire Rated System Accessories

Ezylay Aluminium Frames

Extruded Aluminium designed specifically for the installation of glass blocks. Frame comprised of sections GBT-024 and GBT-025

Ezylay Mortar System Connectors

Registered designed and patented. Made from High Density, new material plastic (not recycled). Connectors are used to achieve uniform joints by locating the glass blocks in a uniform manner while the mortar is curing. The connectors also hold the reinforcing rods in optimum position for maximum strength.

Dynabolt® Plus Round Head Anchors

10mm dia x 75mm length, M10, Zinc coated anchors. Ezylay Frame drilled and fixed into non-cracked concrete at 400mm centres for concrete constructions, 12mm dia x 75mm length, M10, Zinc coated anchors.

Bent Expansion Ties

Expansion Ties - C.G.T.1.B. are used to tie the Glass Block panels to surrounding construction allowing the panel to expand and contract.

Promaseal® IBS™ Foam or Equal – Fire Resistant Foam

Flexible strip fire protection for joints and gaps, successfully tested to Australian Standard AS 1530 part 4 for periods of up to 4 hours depending on application. Cut to 10mm x 100mm x 2000mm (thickness x width x length).

7.6mm dia galvanised steel ribbed reinforcing rods

7.6mm mild steel, hot dipped galvanised ribbed rods. Two rods to be installed around the surrounding perimeter joint of the glass block panel.

6mm dia galvanised steel reinforcing rods

6.3mm mild steel, hot dipped galvanised rods. Two rods to be installed every horizontal joint. One rod to be installed vertically every second joint alternating inside/outside.

Ezylay Premix Mortar – Standard

Ezylay Glass Block Premix Mortar – Standard is designed specifically for use with the Ezylay Glass Block Installation Systems.

Promaseal® Acrylic Sealant or Equal

Flexible water based gunnable sealant for fire resistant sealing of joint and service penetrations for up to 2 hours FRL when tested to AS1530 part 4 and AS 4072 part 1.