

SPECIFICATION FIRE RATED VERTICAL PANELS FRL 60/60/30

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-1834 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 60/60/30, in accordance to AS 1530.4-1997, BS 476 Parts 20 and 22, and DIN 4102 Part 13.

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: SEVES S.p.A
Model: 1919/8 30 F
Pattern: Clearview\Clearview Sahara (Sandblasted)
Colour: Neutral
Dimension: 190x190x80 (height x width x thickness) wall thickness of 20mm, with 4mm coated sheet glass glued in the middle of the glass block.

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.

**SPECIFICATION
FIRE RATED VERTICAL PANELS
FRL 60/60/30**

Glass Block Physical properties

Type of Block	1919/8 30F
Weight/m ² (KN) Load bearing properties own weight	~ 1.6
Compressive Strength (Average value) (N/mm ²)	> 7.5
Compressive Strength (minimum value) (N/mm ²)	> 6.0
Light Transmittance (%)	64
U Value (W/m ² x K) (EN 1051-2 - EN 673)	2.2
Sound Insulation (dB) ISO 717-1 - DIN 52210	45
Bullet Proof (EN 1522)	FB3-S
Fire Resistance (DIN 4102)	F30
Fire Resistance (AS1530.4-1997)	FRL 60/60/30

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 Premix Mortar - Standard

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

Dynabolt® Plus Round Head Anchors

10mm dia x 75mm length, M10, Zinc coated anchors.

Ezylay Frame drilled and fixed into non-cracked masonry and/or 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).

6mm dia galvanised steel reinforcing rods

6.3mm mild steel, hot dipped galvanised rods.

Two rods to be installed every second course horizontally and vertical as required. Two rods to be installed around the perimeter joint of the glass block panel.

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.