SPECIFICATION
FIRE RATED VERTICAL PANELS
FRL 120/120/60

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-2624 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 120/120/60 in accordance to AS 1530.4-2005.

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:	198BSH20
Size:	190x190x80mm
Pattern:	Wave/Clearview/Orsa
Colour:	Neutral

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
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Physical properties

Type of Block	Bullet Proof
	191/8 BSH20
Weight/m2 (KN) Load bearing properties own weight	~ 1.5
Compressive Strength (Average value) (N/mm2)	> 7.5
Compressive Strength (minimum value) (N/mm2)	> 6.0
Sound Insulation (dB) ISO 140 parte 111 - ISO 717/3	45
Bullet Proof (EN 1522)	FB3-S
Bullet Proof (EN 1063)	BR2-NS
Fire Resistance (DIN 4102)	G90, G120 (double panel)
Fire Resistance (AS1530.4-1997)	FRL -/90/, FRL -/120/60

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 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.