

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 installation 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 with CSIRO Opinion FCO-3301 Rev D. Complete test reports, opinions and drawings are available on request and ensured confidentiality.

STANDARD

Fire Resistant Level of -/90/- in accordance to AS 1530.4-2014 – Methods for fire tests on building materials, components, and structures Part 4: Fire Resistance Tests of elements of building construction.

COMPLIANCE CERTIFICATE

Upon completion, Glass Block Technologies 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 issued with Fire Tags to verify conformity.

***** Please note: Glass Block Technologies will only issue compliance certificate if installing the complete fire rated system. Certificate should be supplied by installer/contractor.*

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

MATERIALS – GLASS BLOCKS

Glass Blocks

Manufacturer:	Vitrablok s.r.o Bílinská 782/42 – 419 01 Duchcov – Česká republika
Model:	Clear 1919/8 BSH20
Dimensions:	190x190x80mm – wall thickness 21.0mm thick
Pattern:	Wave / Clearview (Only Patterns) *
Colour:	Neutral
Finish:	Clear / Sandblasted **

* Block Patterns can be found at www.glassblockconstruction.com

** Sandblasted one side or both sides

According to European commission for construction products No. 305/2011, Vitrablok, s.r.o. declares that the construction product is in conformity with standard stated by harmonised norm EN 1051-1:2003. The construction product is safe when used for buildings of non-bearing constructions. The evaluation of conformity was performed according to EN 1051-2.

Vitrablok, s.r.o. production of glass blocks for the building industry and internal decoration has established and applies Quality Management System to be in accordance with the requirements of the standard ISO 9001:2015.

SPECIFICATION FIRE RATED VERTICAL PANELS

FRL -/90/-



Physical properties - Properties of Standard 190x190x80mm BSH 20 Glass Block

<i>Essential Characteristic</i>	<i>Performance</i>	<i>Harmonised Technical specification</i>
Fire Resistance Level (AS 1530.4-2014)	FRL -/90/	
Fire Resistance Class	E90	EN 13501-2 EN1364-1
Reaction on fire	A1	EN 13501-1
Bullet resistance	BR2/NS; FB3 S	EN 1063
Explosion resistance	NPD	EN 13541
Burglar resistance	RC3/P2A	EN 356
Resistance to temperature differences	30 K	EN 1051-2
Mechanical resistance (compressive strength)	> 21 MPa	EN 1051-1
Sound insulation	42 dB	EN 140-3
Thermal insulation (U)	2.8 Wm ⁻² K ⁻¹	EN 673
Light Transmission:		
Clear	71%	EN 410
Sandblasted (one side)	62%	
Sandblasted (two sides)	55%	
Solar energy characteristics (g):		
Clear	69%	EN 410
Sandblasted (one side)	63%	
Sandblasted (two sides)	61%	

MATERIALS - FIRE RATED SYSTEM ACCESSORIES

Ezylay Aluminium Frames

Extruded Aluminium designed specifically for the installation of glass blocks. Frame comprised of section GBT-012 – Ezylay Standard Section.

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.

Ezylay Premix Mortar – Standard

Ezylay Glass Block Premix Mortar is designed specifically for use with the Ezylay Glass Block Installation system. Schlegel Laboratories have tested the premix mortar in conjunction with the Ezylay System, Test number WA 141-90169. Ezylay Premix Mortar has also undergone compressive tests through NATA approved BGC Cemtech. The results were comparable to AS2350.11.

Promaseal® IBS™ Foam or Equal – Fire Resistant Foam

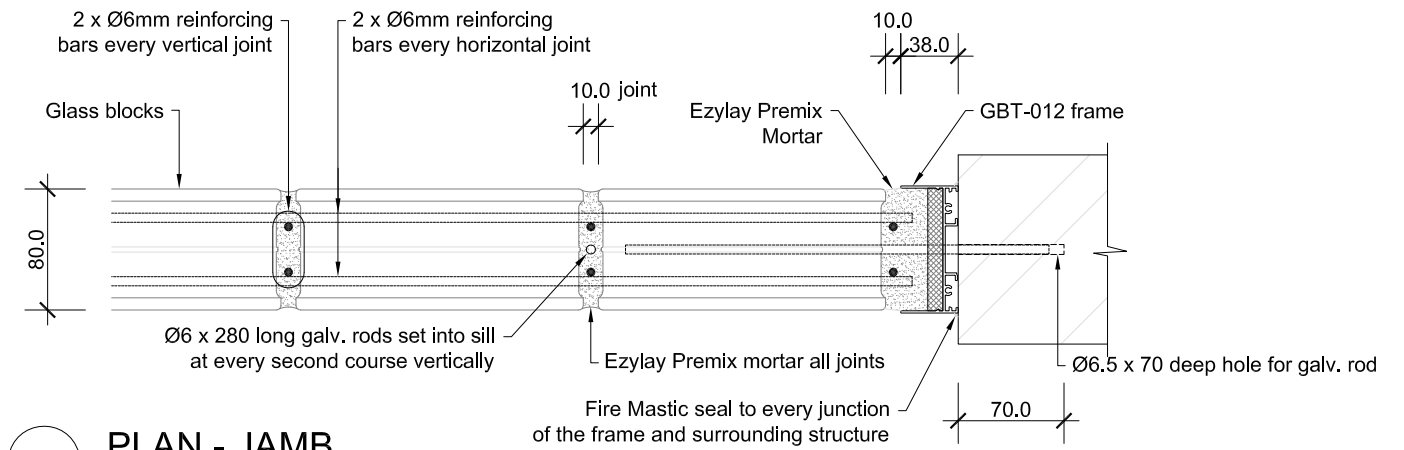
Flexible strip fire protection for joints and gaps, successfully tested to Australian Standard AS 1530 part 4:2014 for periods of up to 4 hours depending on application. Cut to 10mm x 83mm x 2000mm (thickness x width x length).

6mm dia galvanised or Stainless steel reinforcing rods

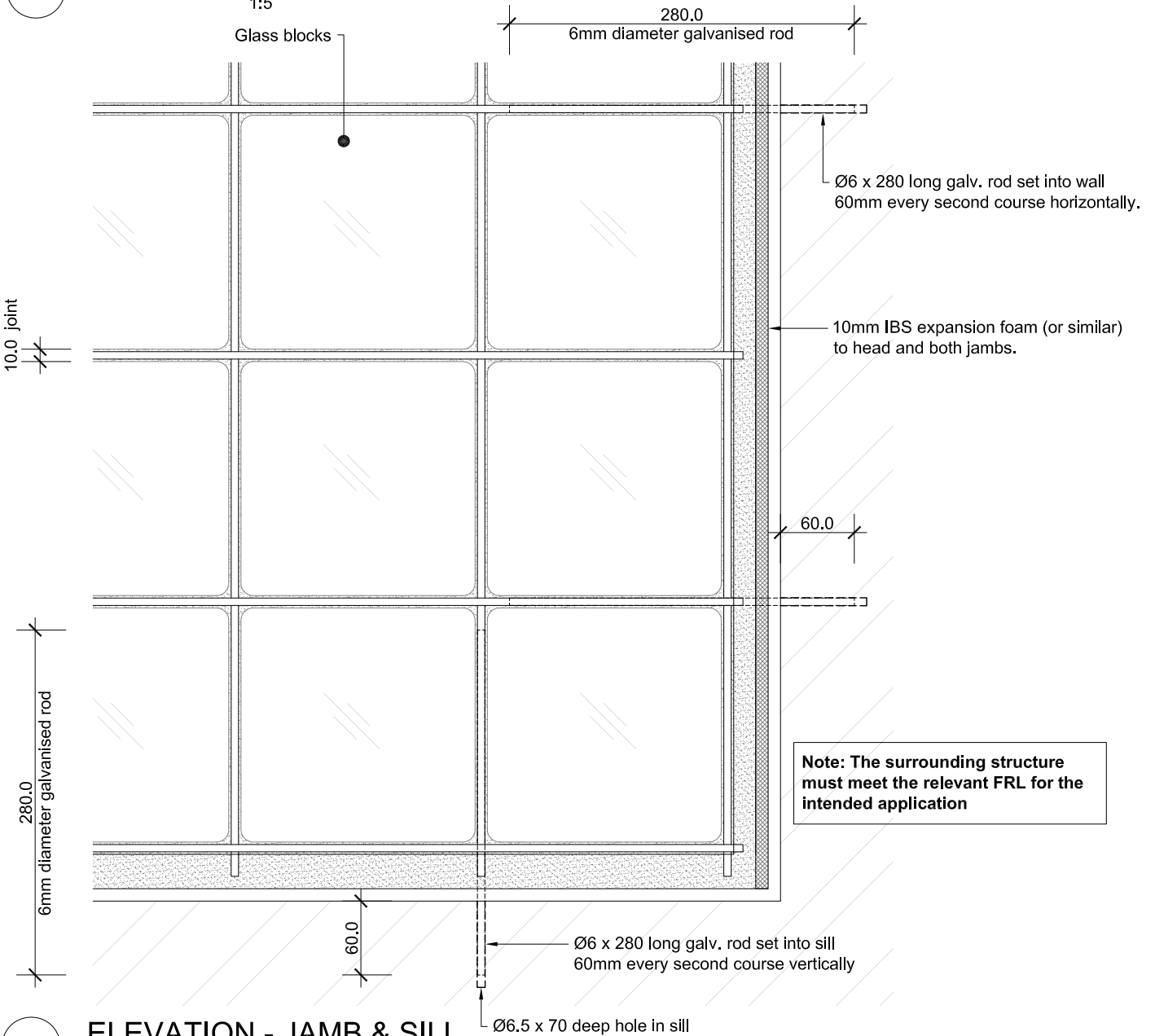
<u>Max. Height x Max. Width</u>	<u>Surrounding Perimeter joint</u>	<u>Horizontal Joint</u>	<u>Vertical Joint</u>
3m x not fire limited	2	2	1 alternating inside/outside

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.



PLAN - JAMB
1:5



ELEVATION - JAMB & SILL
1:5

TITLE:
FIRE RATED DETAIL
FOR FRL 60/60/- ; 90/90/- & 60/60/30



SCALE:	DATE:	DRAWN:	DRAWING NO.:
1:5	MARCH 2022	ADR	222000

SHOWROOM & HEAD OFFICE: 777 MARSHALL ROAD, MALAGA WA 6090

TEL: 08 9248 8590

FAX: 08 9248 8591

www.glassblocktechnologies.com

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