EZYLAY PAVING SYSTEM
NON- FIRE RATED PAVING PANEL SPECIFICATION

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 paving panels within predetermined openings, to comply with all specifications and drawings related to this project.

STRUCTURAL CERTIFICATION

Glass Block Technologies International will issue a Structural Engineer's opinion on the structural adequacy of the paving panel upon request

MATERIALS

Glass Blocks

Manufacturer: Vitrablok s.r.o

Model: Clear BG 1919/8

Size: 190x190x80mm

Pattern: Clearview

Colour: Clear

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 as stated in use for building of bearing and non-bearing constructions. The evaluation of conformity was performed according to EN 1051-2.

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

Physical properties - Properties of Clear BG 1919/8

Essential Characteristic	*Performance*	*Harmonised Technical specification*
Reaction on fire	Euroclass A1	EN 13501-1
Bullet Resistance	NPD	EN 1063
Explosion resistance	NPD	EN 13541
Burglar resistance	NPD	EN 356
Resistance to temperature differences	30 K	EN1051-2
Mechanical resistance (compressive strength)	28 kN	EN 1051-1
Sound insulation	NPD	EN 140-3 EN 717-1
Thermal insulation (U)	2.8 $Wm^{-2}K^{-1}$	EN 673
Light Transmission: Clear Sandblasted (one side) Sandblasted (two sides)	 76% NPD NPD	EN 410
Solar energy characteristics (g): Clear Sandblasted (one side)* Sandblasted (two sides)	 70% NPD NPD	EN 410
Slip Resistance Sandblasted (one side)	 58	 AS4586
* First Value is determined for radiation incidence onto non-sandblasted surface, second onto sandblasted one		

EZYLAY PAVING INSTALLATION MATERIALS

Ezylay Paving Moulds

Designed and patented by Ezylay Glass Block Systems.

Locked and screwed onto formwork to give the exact spacing for the glass blocks.

Ezylay Paving Gaskets

Designed and patented by Ezylay Glass Block Systems.

Uniquely designed to be placed in the top of the recess in the Ezylay Paving Mould so that when the Ezylay Paving Moulds and formwork are detached – the glass blocks are free from concrete staining on underside.

Ezylay Paving Concrete

Specifically designed for use with the Ezylay Paving System. 50 Mpa Normal Weight Grade, 8mm maximum aggregate size.

Ezylay Topping Mix

Used for an aesthetic non-slip finish to paving panels.

Ezylay Lifting Lug (for prefabrication)

Used to lift the paving panels from formwork moulds

Acrylic Sealant

Water based acrylic gap sealant to fill in joints between Ezylay Paving Moulds and Formwork to ensure visibility of joint marks on the underside of the panel is minimised.

Ezylay Bond Breaker

Releasing Agent placed on the base of the structural toe and formwork. Formulated to work specifically with the Ezylay Paving Concrete

Construction Grade Sealant

Accelerated moisture curing one-component polyurethane prepolymer sealant with permanent elasticity, high durability and high abrasion and tear resistance.

Used to cover the Expansion Foam/Backing Rod for weather resistance whilst allowing for expansion and contraction within the opening.

Also used as a weather resistance cushion between the structural toe and prefabricated panels.

Expansion foam/Backing Rod

Expansion Foam with 10mm tear-off section (for site pour)

Closed cell, cross-linked, 100% polyethylene expansion foam, that is non-absorbent and impervious to fluids. Dimensions 10mm x 125mm with lengths cut to suit. 10mm tear-off section enables space for the construction sealant.

15mm Backing Rod (for prefabrication)

Dimensions 15mm dia with lengths cut to suit.

Placed around the perimeter edge of the prefabricated paving panel to allow for expansion and contraction within the floor opening and to support the construction sealant.

Flashing Tape (for site pour)

48mm Self adhesive flashing tape placed on structural toe to act as a sliding joint.

Galvanised steel ribbed reinforcing rods

Hot dipped galvanised rods as per AS 1302 - Steel bars for concrete with a nominal yield stress of 500 Mpa. Size of Steel to be determined by Structural Engineer.

Two hooked rods to be installed between each block in the direction of the main supporting sides. Two Straight Rods between each block in the direction of the non-supporting sides. If all sides are supported, then hooked rods are in the direction of the shortest distance.

Two or four rods to be installed around the perimeter joint of the glass block paving panel depending on size of perimeter joint and subject to structural engineer instruction.