



Notes to Section D through Glass Blocks – General considerations

1. Glass block walls are not supporting, but not load-bearing. In addition, a thermal break provides the head for the panel to be achieved in its design ensuring no unwanted pressure is placed on the glass blocks.

2. Openings must be square and perpendicular and the opening dimensions must be designed for suit glass block modules. Glass blocks cannot be cut, therefore joints or breaks in the glass blocks must be avoided. The maximum opening requirement, from one side, for the other mortar joint. This is the minimum opening requirement. From mortar openings have been prepared horizontally or if refer installing glass blocks, or if create a lighter rail, when building a curved glass block panel.

3. Glass block walls are connected to the surround by reinforcement bars being carried into pre-cast concrete. Reinforcement bars are placed in the mortar joint between concrete or block walls.

4. Between the opening and glass blocks it is essential to incorporate expansion joints to the perimeter to allow the panel to expand and contract freely with temperature variations. There are expansion and contraction joints between individual glass blocks with head, where the expansion joint is filled with a compressible foam sealant.

5. Glass block (panels) can be installed when the surrounding temperature is 5°C and falling or 35°C and rising.

6. Using enlarged glass blocks, the minimum panel size (without intermediate support or slip joints) is 2500mm, with no dimension exceeding six in either direction for 1750 and 1169 glass blocks. The maximum panel size permissible is 7m in line with feet specific block.

Concrete and that are purely representative to demonstrate the principle how glass blocks can be constructed with U-shaped, or box sections, either the structural and privacy purposes, is a matter of glass block size and/or application use.

The channel PVC and box section dimensions are illustrative only and not necessarily to scale.

Construction details principles, should be designed and be specific to each project requirement and should be checked and approved by responsible body of engineers. Additional – Parameter additional details.

7. Glass blocks will expand and contract by 2.5mm per 25°C temperature change. Suit expansion and block, being compensated with a performance mortar joint. The mortar joint will slightly low similar to a standard mortar joint for the head and joints of an opening, between the first row of glass blocks and the base of the opening is formed using high-density bitumen or impregnate alternate support. The weight of the panel, bottom concrete mortar joint and base of opening.

Joint lines and block gaps.

Note: In the most common joint size for specifying and building glass blocks, a 18x1mm gap is required between adjacent glass blocks. This gap is filled with a mastic sealant to prevent mortar seepage; increasing the number or concrete that can be constructed in a joint. The mortar sealant is applied to the joint and the mastic sealant is filled with concrete. When a spacer ring is fitted and the wall is finished, the 18x1mm gap is filled with a mortar cap that is grout over.

Other spacers are available for the 18mm-thick blocks-down x down and down x down and also for 200mm-thick blocks – down x down.

Block reinforcement and long block, in the particular opening.

Stainless steel rebar reinforcement bars are used in the opening. The rebar bars are placed in the expansion mortar and mortar the panel in place by connecting to the rebar bars. The rebar bars should be filled with concrete to ensure no movement of the rebar bars.

The rebar bars are 1200mm long and when the panel is being prepared, the rebar bars are supported by a minimum of 100mm and every panel during its set to cure to.

One reinforcement bar should be used in each horizontal and vertical joint at a minimum of 100mm spacing. The rebar bars should be grout over the joint.

For situations where connecting the ends to the opening may prove difficult, panel ends may be required to long glass blocks or 1169 or 1169.

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TWO OR MORE GLASS BLOCK WALLS CONNECTED WITH CORNER GLASS BLOCKS
GBT116 Rev.
 Scale 1:7.5 & 1:2