



**GLASS BLOCKS**

- Glass block units are not supporting and should be supported by a frame or other structure. The head of the panel is to be anchored into a concrete or masonry structure.
- Openings must be square and perpendicular and the opening dimension must be designed to suit glass block modules. Glass blocks cannot be cut (use masonry blocks or other parts), modify the number of blocks by 50mm (2 inch), then install them side by side or the other party joint. This is the minimum opening requirement. When mortar openings have been prepared, they must be filled with mortar. Mortar joints must be a light red, when building a curved glass block panel.
- Glass block units are connected to the surround by reinforced bars being inserted into pre-drilled holes. For panel strength, panel should be supported by a frame or other structure.
- 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 changes. Expansion joints must be prepared in advance of installation and filled with mortar.
- Glass block panels must be installed when the surrounding temperature is 5°C and falling or 38°C and rising.
- Using a 10mm diameter glass block, the minimum panel size, without intermediate support or slip joints is 2000mm with no dimension exceeding 600mm in either direction. For 150mm and 100mm blocks, the maximum panel size permissible is 700mm in line with text specifications.

Connection detail must be prepared representative to demonstrate the principle the glass blocks can be connected with U-bolts, or box sections, either for structural and practical purposes, or, in the case of glass blocks, for design or aesthetic use.

The channel, P.C. and box section dimensions are illustrative only and not necessarily to scale.

Connection detail must be prepared and be specific to each project. Expansion joints must be prepared in advance of installation and filled with mortar.

**Accessories** - Channel, expansion joints.

Glass blocks will expand and contract by 2.5mm per 25°C temperature change. Start with a 10mm expansion joint. The maximum expansion joint should be 10mm. The maximum expansion joint should be 10mm. The maximum expansion joint should be 10mm. The maximum expansion joint should be 10mm.

Other details are available for the frame, thin blocks, 4mm x 4mm and 6mm x 6mm and also for 100mm, 150mm, 200mm x 100mm.

**General information** to specialist design and construction teams. The glass block is a standard and not a joint. The head and joints of an opening, then into the panel, are to be supported by a frame or other structure. The head of the panel is to be anchored into a concrete or masonry structure.

Other details are available for the frame, thin blocks, 4mm x 4mm and 6mm x 6mm and also for 100mm, 150mm, 200mm x 100mm.

**CLASSBLOCK TECHNOLOGY**

170 Lodge Lane, Hyde, Cheshire SK14 4LB  
 projects@glassblocks.co.uk  
 www.glassblocks.co.uk  
 twitter:@glassblocks  
 Telf: 0161 612 8893  
 Fax: 0161 285 1503

The data sheet connection detail & construction principles, should be designed and specific to each project. The data sheet connection detail & construction principles, should be designed and specific to each project. The data sheet connection detail & construction principles, should be designed and specific to each project.

**TYPICAL GLASS BLOCK RODS & MORTAR SYSTEM**

**GBT100 Rev.**

Scale 1:7.5 & 1:2