

Guide to Specifying Glass Blocks - General considerations

Glass block walls are self supporting, but not load bearing, in addition to their own weight, they can withstand wind loads, horizontal live loads and impact loads. A lintel provides the head for the panel to be anchored into whilst ensuring no downward pressure is placed on the glass blocks.

2. Operating must be square and perpendicular and the operating disensities must be designed to sall gasts blook needles, it issue blooks cannot be cut like a massempt princis or like. To calcular the minimum operating place based on using 193 x 194 x 198 ben blooks with these ports, mustify the number of blooks by 2010ms (1950 blooks - 198m joint) them said places are not seen to be supported to the principle of the propagate (increment, or if refer in stalling plass blooks, or the principle of the propagate (increment, or if refer in stalling plass blooks, or the principle of the principle of the propagate (increment, or if refer in stalling plass blooks, or the principle or in the principle of the principle or in the principle plass blooks, or the principle or in the principle plass blooks, or the principle or in the principle or in the principle or in the principle or in the principle of the principle or in the principle of the principle or in th

3. Glass block walls are connected to the surround by reinfercement bars being inserted into pre-drilled hales (or panel anchors). For best integral strength, panels should be installed into a four sided pre-prepared opening. The opening can be timber, brick, steel concrete or block-wark.

4. Between the opening and glass blocks it is essential to incorporate expansion joint to the perimeter to allow the panel to expand and contract freely with temperature change. The foam must not br bridged by mortar freeder/plaster etc...) and caulied with the perimeter of the property of the perimeter of t

5. Glass blocks should not be installed when the surrounding temperature is 5°C follower 20°C and rision.

Using standard glass blocks the maximum panel size without intermediate support or p joints is 25m, with no dimension exceeding 6m in either direction. For TF39 and TF60

Connection details are purely representative to demonstrate the principals how glass blocks can be constructed with U channels, or box sections, either for structural and

The channel PFC and how certion dimensions are illustrative only and not necessarily

scale.

Connection detail principles, should be designed and be specific to each project

ressories - Perimeter expansion joints.

Accession. - recover common man.

Gass blocks will good acc confact by \$15 mp or \$7X\$ begans to change, Soft expension point must be incorporated this the perimeter between the substrate expension point must be incorporated this the perimeter between the substrate of the substrate expension point in the substrate expension point incorporate points between the substrate expension points between the substrate expension points between the substrate expension points and the substrate expension points and substrate expension points and substrate expension points and substrate expension points and substrate expension points are substrated to the point.

Alternatively have coated of blanks enclosed on his applied as the barrier between the between current expension and only and expension expension points.

Joint sizes and spacer pegs.

see in the east connor joint late for specifying and building glass beloes. A 199 - 1914 bod plass them appear embelales in Politice, dipute joint and in which the first prevent months square, bioreading the number of courses that can be constructed in prevent months square, bioreading the number of courses that can be constructed in the glass blook as netal and glass have different expansion and construction preparies them a space poly in titled and the value is finished, the best as the end that off and

Other spacers are available for the 80nm-thick blocks-6nm x 6nm and 6mm x 10nm a also for 100nm-thick blocks - 10nm x 10nm.

Panel reinforcement and tying back to the perimeter opening.

Statiness steel ribbed reinforcement bars are used to lie to the opening. The reds penetrate the expansion insterial and anchor the parelin inpixe by connecting to the perimeter frame. This can be loseted by drilling an over sized hole a ninism depth of 25-35ms on should be filled withinsione to cushine any novement of the re-ber. Roba are 1250ms long and when the panel is larger than the reinforcement bar, rods are soverlapped by a minism of 555m and are lossely joined using tis wire/cable lie.

One reinforcement bar should be used in each horizontal and vertical joint as a minimum. More rods may be required it using end glass blocks or a TF30 or TF60.

or situations where connecting the rods to the opening may prove difficult, panel schors can be used (similar to the brick)-tie principle secured by either screw or boil

Glass blocks specilists norter - Coinef Vetronix

Coned Velronis is a specifically designed and formulated presis nextre for glass block contenting the entering state of the content of the co

Expansion joint sealer sealant,

After construction, the perimeter joint should be cleared of any residue montar and caushed with Rods & Norter expansion sealant for fire stop mastic), Bridging the joint would restrict flexibility and newment and negate the expansion fibre and can cause when Mother as biddle to exercise.

How a mortar joint works

Glass Black Technology morta is a specially femnialred premis bedding and finishing company, available in one bay to be indeed with water. It is manufactured under factory controlled conditions to all additives are accurately blended and designed for maximum performance of strength, finishility, value repolations and U-visua, A march print valid core in reaction to air just the commit merters, so it is important than the just size or tool based one. They guarantees to fall octing and maximum strength, Netheron will see the properties of the committee of t

Gas is ingenieus unitée brids and concrete, here rêce en ent et is net douvebell n'e a gas aide. The transpell nois grouper la pair le contret ly the shape of the autre propriée de la contret de la contret de la contret de la contret le propriée de la contret propriée de la contret de la contreta del la contreta de la contreta de la contreta del la contreta de la contreta del la c



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The data sheet connection detail & construction principles, should be designed and be specific to each project requirement or environment & calculations checked and qualified by independent structural engineers.

All information is accurate to the best of our knowledge at time of data sheet production, however Glass Block Technology Ltd. cannot be held liable in any way regarding the usage of glass blocks and the manner in which they er installed. Glass Block Technology Ltd. reserve the right to amend or correct changes at any time.

TYPICAL GLASS BLOCK PANEL SUPPORTED ON FOUR SIDES

GBT112

Rev.

Scale 1:7.5 & 1:2