

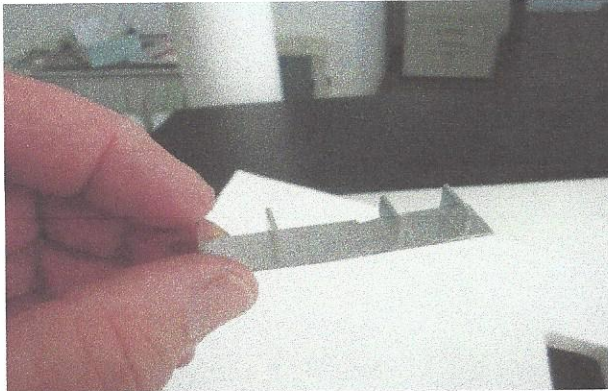
# Vetropieno Installation into Contained Openings

## Step One

It is important that the opening will accommodate the Vetropieno sizes as cutting the blocks is extremely difficult and not recommended. Over sized openings can be trimmed to suit the Vetropieno modules.

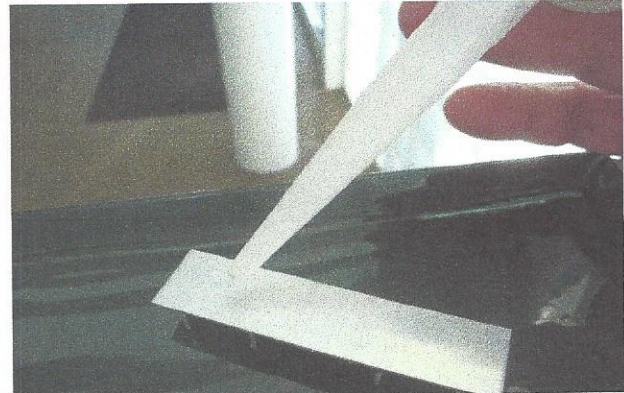
## Step Two

Ensure the head and sill of the opening is level and the jambs are at 90° to the head and sill



## Step Three

Cut GBTI aluminium section GBT-017 (Sill Infill) in 15 mm lengths to use as spacers between the Vetropieno blocks



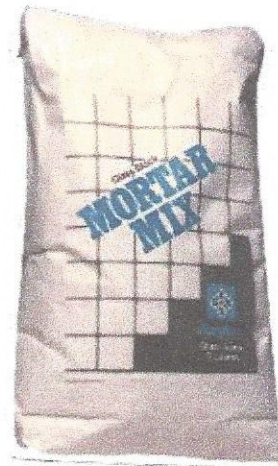
## Step Four

Place Ezylay Silicone Sealant on the flat side of the GBT-017. The flat side is then adhered to the top of the Vetropieno. The Silicone insulates the aluminium from the glass.



## Step Five

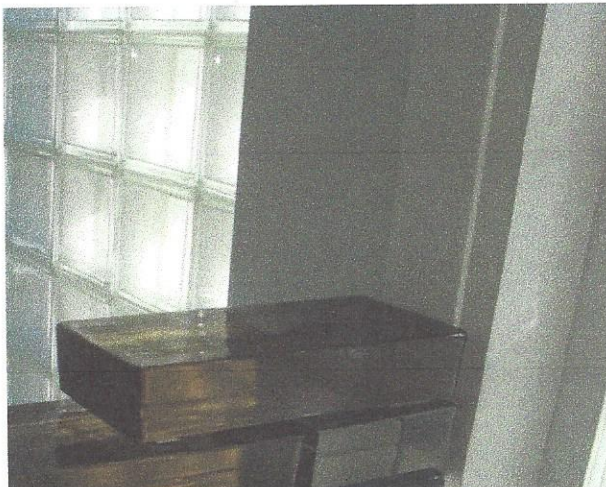
Place GBT-017 spacer at intervals that will support the Vetropienos



## Step Six

Mix Ezylay Premix Mortar as per the instructions on the bag. Spread an even bed of mortar over the sill, slightly higher than the legs on spacer.

*Ezylay Premix Mortar is designed specifically for glass block installations.*



## Step Seven

Place polystyrene or Ableflex at the jambs



## Step Eight

Lay 1<sup>st</sup> course of blocks in either staggered or stack bond. Repeat for 2<sup>nd</sup> course



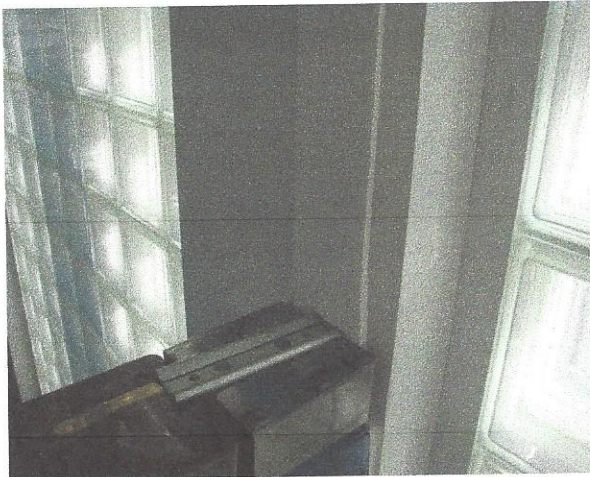
**Step Nine**

Spread mortar for 3<sup>rd</sup> course then press 2 rods into mortar



**Step Ten**

Starting on the 3<sup>rd</sup> course and then every 4<sup>th</sup> course, fix a CGB 1-B expansion tie to jambs. Place a thin layer of mortar on top of the block and under the tie so the metal does not come into contact with the glass. Use a fixing that does not protrude out too far.



**Step Eleven**

Place expansion material over expansion tie.



**Step Twelve**

Cut GBTI-017 in half and place as shown on either side of the Expansion Tie

**Step Thirteen**

When mortar becomes firm then either flush, roll or rake joints. Clean excess mortar off face of blocks as with traditional glass block laying.

**Please Note:**

Vetropieno blocks are like other glass blocks, they expand and contract at different rates to other construction materials and therefore require an expansion joint at the sides and top.

Expansion between the glass, mortar and reinforcing rods is compatible up to 6 meters. Depending on where the blocks are to be installed, expansion is not an issue in a free standing structure but some support must be supplied.

Vetropieno blocks are not load-bearing and cannot be used as a structural element of the purposed building. It is recommended that panels should not exceed 9 square meters.

The Vetropieno blocks are made from solid glass and as such will not absorb the water out of the mortar to set. The mortar will rely on the chemical reaction of the cement to cure and therefore using a spacer is the best construction method. DO NOT use any saline type accelerators or plaster in the mortar. Salt based accelerators corrode the reinforcing causing the plaster to expand the joints and cracking will then occur.

