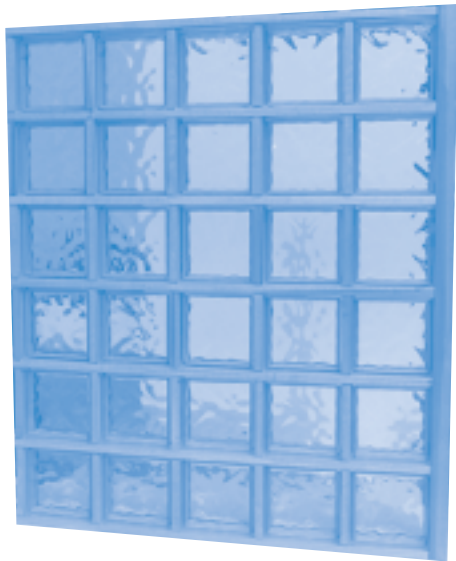


## EXTERNAL USE

The Framelight system may be used in external situations but special precautions must be taken -

1. A series of 12 mm holes at 204 mm centres (centre of each block) should be drilled along the centre of the horizontal rails and cill to allow for drainage
2. When all the components have been cut to length, all the surfaces of the timber must be treated with a proprietary preservative in accordance with the manufacturer's instructions. Particular attention must be paid to the ends of the sections - alternatively, SHG Glass Block Mortar is available and is suitable for wet areas, internally or externally.

**ONLY THE SGH MORTAR AND SPACER SYSTEM SHOULD  
BE USED FOR INSTALLATION IN SHOWER OR  
PERMANENTLY WET SITUATIONS**



### *Shackerley (Holdings) Group Limited*

PO Box 20 Wigan Road Euxton Chorley Lancashire PR7 6JJ  
**Telephone** +44 (0)1257 273114 **Fax** +44 (0)1257 262386

**Email** enquiries@shackerley.co.uk **Website** www.shackerley.com/glassblocks

**UK Patent Application No.** 0017556.2

# FRAMELIGHT GLASS BLOCK SYSTEM

## MATERIALS/TOOLS REQUIRED

### Framelight Components

**Cill/Head and Side Outer Frame:** You will require sufficient outer frame section for the top, bottom and sides of the panel.

**Horizontal Rails:** One for each course of glass blocks (less one for the top course). Each of these elements should be from one continuous piece.

**Vertical Dividers:** One for each block, less one for each course.

**Fixing Clips:** Two for each horizontal rail, two for head and two for cill.

**Glass Blocks:** 190x190x80mm. Colour and design to your choice.

### Tools

- ❖ Electric drill with masonry bits and 4mm drill for pilot screw holes. Try square.
- ❖ Screws and plugs for frame fixing.
- ❖ Saw to cut frame and horizontal rails to length.
- ❖ Spirit level to plumb frame and level cill.
- ❖ Screwdrivers to fix locking clips, locating pin and fixing screws.

**HELPLINE  
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# FRAMELIGHT FRAMELIGHT

## GLASS BLOCK SYSTEM GLASS BLOCK SYSTEM

There are three main components for the frame system plus the fixing clips:-

- ❖ The outer frame section (2600 mm long)
- ❖ The horizontal rails (2600 mm long)
- ❖ The vertical dividers (190 mm long)
- ❖ Two part clip set comprising of anchor clips, slotted keeper clip and four fixing screws. Two clip sets are required for each horizontal rail plus two sets for the cill and two sets for the head.

When the frame/rails have been cut to size, the components can be lightly sanded and prepared to receive the chosen finish in accordance with the relevant manufacturer's instructions.

The Framelight system can be treated with an appropriate stain, varnish, wax, French polish or paint to suit the location in which it is installed.

The outer frame can be joined where it can be securely fixed to the background.

The horizontal rails can also be joined with metal joining plates, but at least every alternate rail must be continuous and the joints must be staggered.

The first vertical frame piece should be cut to length which will equal the number of blocks and horizontal rails - allow 204 mm per one block and one rail thickness combined, plus the thickness of the head and cill - allow 30mm for one head or one cill piece ie. 60mm combined. It may be appropriate to let the vertical framework over-run the desired height of the framelight panel so that these can be secured to a ceiling or support of an existing opening. See figure 1.

### TIP - LAY OUT A TEST RUN OF BLOCKS AND DIVIDERS BEFORE CUTTING.

The side frame should be pre-drilled and screw fixed securely to the structure ensuring that it is straight and plumb in both planes.

The head and cill should be cut to the correct length. This length is again determined by the number of blocks and dividers required (allowing 204 mm). Deduct 20 mm from the overall size of which to allow for the side blocks fitting into the rebate of the vertical side frames.

The horizontal rails are cut to the same length as the head and cill pieces. They do **NOT** fit into the rebate on the vertical side frames.

## INSTRUCTIONS FOR FRAMELIGHT PARTITIONING SYSTEM

### CHECKING THE FRAME LENGTH

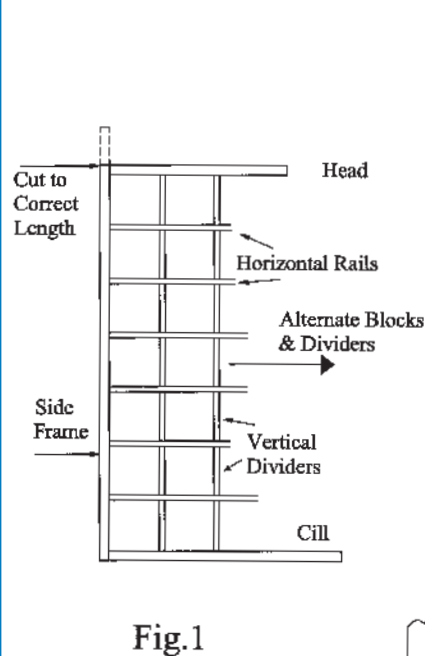


Fig.1

### HEAD AND HORIZONTAL RAIL

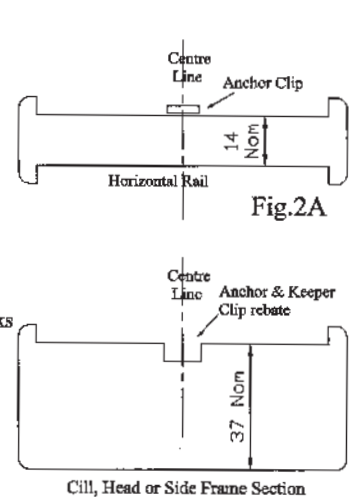


Fig.2A

Fig.2B

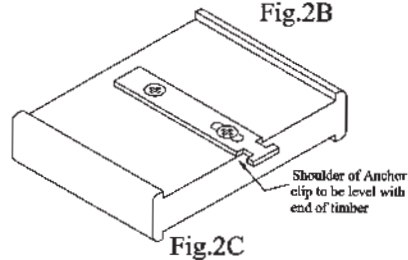


Fig.2C

### DIMENSIONAL POSITIONS OF KEEPER CLIPS

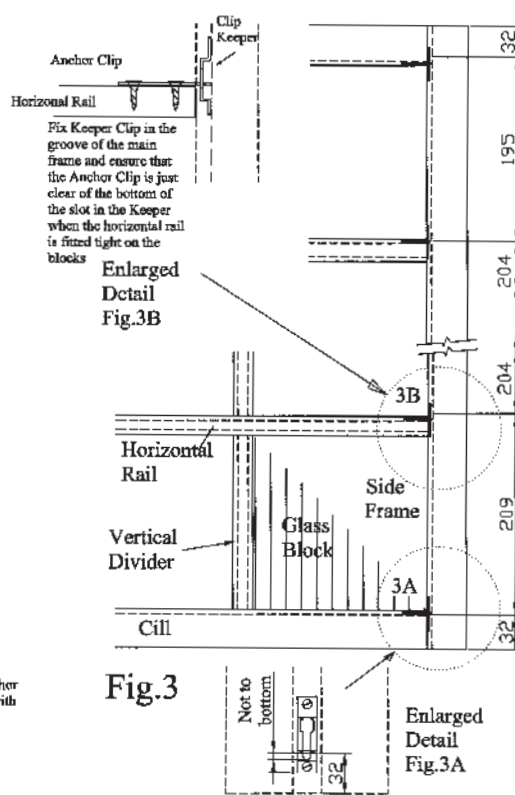


Fig.3

Enlarged Detail Fig.3A

Mark the ends of the cill, horizontal rails and head piece to locate the anchor clip position on each section as shown. See figures 2A & 2B.

Ensure that the shoulder of the anchor clip is level with the end of the timber. See figure 2C.

Fix the second vertical frame piece taking care that it is located at the correct dimension from the first piece. Use the cill as a template for this. Check that it is straight and plumb. If necessary, pack out the fixings to achieve the correct dimension between the frame sections.

Mark the height of the anchor clip on the cill section onto the vertical side frame and fix the keeper clip into the groove to the correct height. See figure 3A.

The module for fixing the clips to the side frame is 204mm. It is important that the clips are positioned accurately.

Clips are fixed at 204mm intervals ie. 204mm from the centre of one clip to the centre of the next.

Repeat this on the opposite vertical side frame. Fit the cill making sure that the clip fits into the keeper clips on the vertical side frame pieces. Fix the cill to the floor securely. Make sure that the cill is straight and level.

Mark the position of the clips on the side frame. See figure 3B.

Fix a keeper clip to the side frame on each side in the groove at the appropriate location. Ensure that the anchor clip does not reach the bottom of the keeper clip when the horizontal rail is fitted. The horizontal rail must sit onto the blocks and vertical dividers without the anchor clip bottoming on the slotted receiver. See figure 3A.

Set the first block on the cill against the vertical side frame within the rebated edges. Place a vertical divider against the first block, followed by further

blocks and dividers until the full width is filled. The last block of the course should be a push fit. Ensure that the vertical dividers are pressed fully down to located into the cill piece. Put on the horizontal rail and slot the anchor clip in the ends of the rail into the clips on the side frames. Make sure that the vertical dividers fit into the rebated underside of this rail and that it is sat down on the top of the glass blocks.

### REPEAT THIS OPERATION UNTIL ALL THE COURSES ARE FITTED.

The head piece is fitted in the same way as the cross rails. A minimum of 50 mm extra gap is needed to fix the head piece. If the side frame has been cut off to dead length, the top of the last clip will need to be folded over and fixed into the top of the side rail. Where partitions are open ended, the free vertical frame piece will need to be fixed to the structure at the top and bottom. Where there is limited head room the last vertical divider may need to be cut in half vertically through the 14mm thick section and the two halves inserted from each side of the wall.