

## PRECAST EASIFIX TERMS

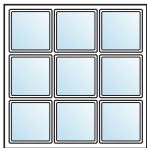
**!** Precast Easifix cannot be used in fire rated situations.

**!** Precast Easifix can only be used in conjunction with 80mm wide glass blocks.

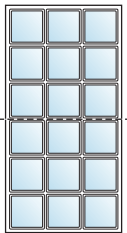
- !** Precast Easifix is manufactured to order & does have a lead-time.
- !** GBT does not operate Precast Easifix on credit terms like loose blocks & accessories, because panels are produced to order.
- !** GBT will only begin to produce panels when in receipt of signed drawings confirming the panel dimensions, you/the client is responsible for signing each copy of the drawings.
- !** Precast Easifix panels do not modulate in accordance to Rods and Mortar or Easifix opening sizes.

## PANEL TYPES AND DETAILS

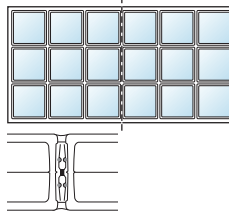
STANDARD PANEL



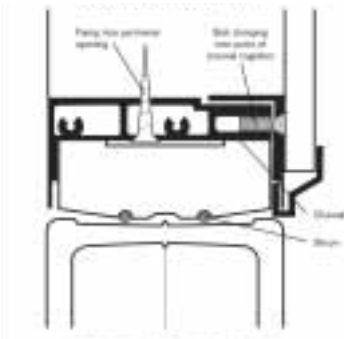
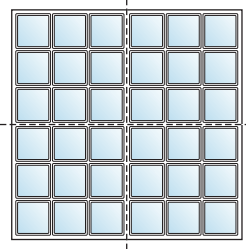
HORIZONTAL CONNECTING



VERTICAL CONNECTING



MULTIPLE CONNECTING



## SAFEWALL SYSTEM

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The Safewall system comprises two products, designed to overcome different solutions: End Post and Corner Post.



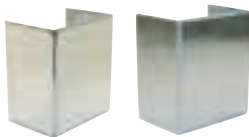
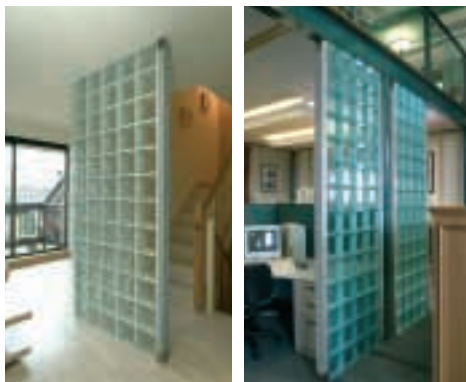
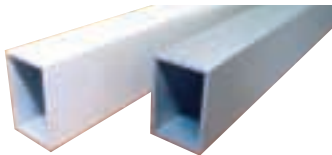
## SAFEWALL SYSTEM : END POST

The end post offers a solution for constructing glass block walls safely by creating a secondary vertical jamb.

### SPECIFICATION

End posts are 2700mm long and can be cut to size on site to suit the floor to ceiling height. The end post is a 3" x 2" extruded aluminium box section, available in white or silver grey as standard.

White &  
Silver Grey  
End Posts



Polished End  
Boss

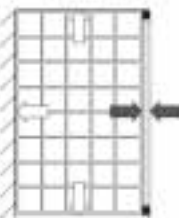
Satin End Boss  
(Brushed)

The end post is secured in place by two specially fabricated boss sections, available in either brushed or polished stainless steel.

A boss section is secured to the floor and another is secured into the ceiling and then the end post is slid

into place, until the panel is fully constructed the post can temporarily be held in place by siliconing inside the boss section.

Safewall boss and base section allows glass block panels to be constructed safely and allows you to anchor a glass block wall into a four sided opening. In order to secure the end post, one boss section must be fixed to the floor and one to the ceiling.



## SAFEWALL SYSTEM : CORNER POST

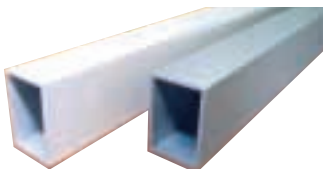
The corner post offers a solution for constructing glass block walls around a 90° corner.

### SPECIFICATION

The corner post is 3" square and 2700mm long, can be cut down on site and is secured in place similarly to the end post, by two stainless steel boss sections.

The corner post is available in the same finishes as the end post, and is designed to assist with forming two glass block walls around a 90° corner angle.

White &  
Silver Grey  
Corner Posts



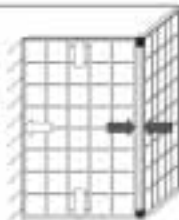
Polished Corner Boss



Satin Corner Boss (Brushed)



Safewall boss and base section allows glass block panels to be constructed safely and allows you to anchor a glass block wall into a four sided opening. In order to secure the corner post, one boss section must be fixed to the floor and one to the ceiling.



Corner and End posts are recommended for internal use only, carry no fire rating, can only be used in conjunction with 80mm glass blocks and are suitable for use with either Rods & Mortar or Easifix systems.

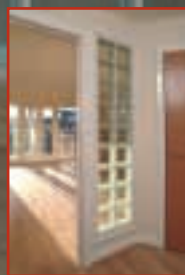
## FIRE RATED GLASS BLOCKS

Fire rated glass blocks are used in various areas & in all market sectors, usually in compartmentalised areas, fire escape routes, third storey loft conversions & external boundary walls in close proximity to other buildings or public highways.

Fire rated panels are usually specified via an architect or a condition instructed by building control under building regulations.

Fire rated panels are available in Precast format, ensuring correct installation requirements in line with test data, also ensuring regularity of joints and a premium quality factory controlled finish.

Various restraint/installation solutions are available dependent on application and required finish.



## FIRE RATINGS EXPLAINED

Unlike fire doors, Fire ratings for glass blocks are concerned with two criteria: fire integrity & thermal isolation. To successfully pass testing, panels are tested to four standards (explained in more detail in Glass Block Fire Rated literature); a Brief definition of fire integrity is how long a wall will remain stable for in the case of a fire. Thermal isolation relates to the period of time it takes for the heat to transfer from the side of the fire through to the other face of the glass blocks.

Fire rating tests are measured in 15 minute increments & three types of fire blocks are available: 60 minute integrity & 15 minute thermal isolation, 60 / 30 & 60 / 60.

When a fire rated panel is built, it is not just the block that is important, ensuring the correct installation system & accessories are used is vitally crucial. All fire panels tested are constructed on the basis of rods & mortar. For specific fitting guides & test certification, contact Glass Block Technology.

**Fire resistance is concerned with four criteria :**

- (a) Mechanical Resistance - the glass block wall must stay upright without too much damage following testing**
- (b) Thermal isolation**
- (c) Imperviousness against blaze**
- (d) No flammable emission during testing.**

These tests are recorded in 15 minute increments.

**DEFINITION :**

### **FIRE INTEGRITY (G-CATEGORY GLAZING)**

The glass block wall must pass Test (a), (c) and (d).

### **THERMAL ISOLATION (F-CATEGORY GLAZING)**

The glass block wall must pass all four of the criteria listed (a) -(d).

### **60/15**

See La Rochere glass block range for all available patterns.



**190x190x80**

60 minutes integrity and 15 minutes thermal isolation.

### **60/30**



Clear Nubio  
F 1910 (N)



Clear Arctic  
F 1910 (S)



Clear Clarity  
F 1910 (T)



Super Fine Cross  
Reeded  
F 1910 (ST)

**190x190x100\***

60 minutes integrity and 30 minutes thermal isolation.

### **60/60**

Available in Clear Flemish and Transparent.



**190x190x160**

60 minutes integrity and 60 minutes thermal isolation.

## HOW TO ATTAIN CERTIFICATION

For a fire glass block wall to be warranted and receive a fire certificate it must be installed in strict accordance with the original test conditions.

Glass Block Technology Ltd do not print the fitting instructions for F30 and F60 blocks in the A5 Glass Block Solutions brochure because there are a number of specific points we have to clarify with you and your client prior to any installation.

For example: Maximum panel size, perimeter borders, specialist fire resistant expansion material and reinforcement etc.

Once the panel has been installed, the person or contractor responsible must contact Glass Block Technology and complete an application form, which will be lodged in the project file at the head offices. Glass Block Technology will then issue the F15, F30 and F60 certification which must be kept safe at all times.

**REMEMBER** be aware of the difference between the definitions of Fire integrity and Thermal Isolation.

## SHOWER SCREENS

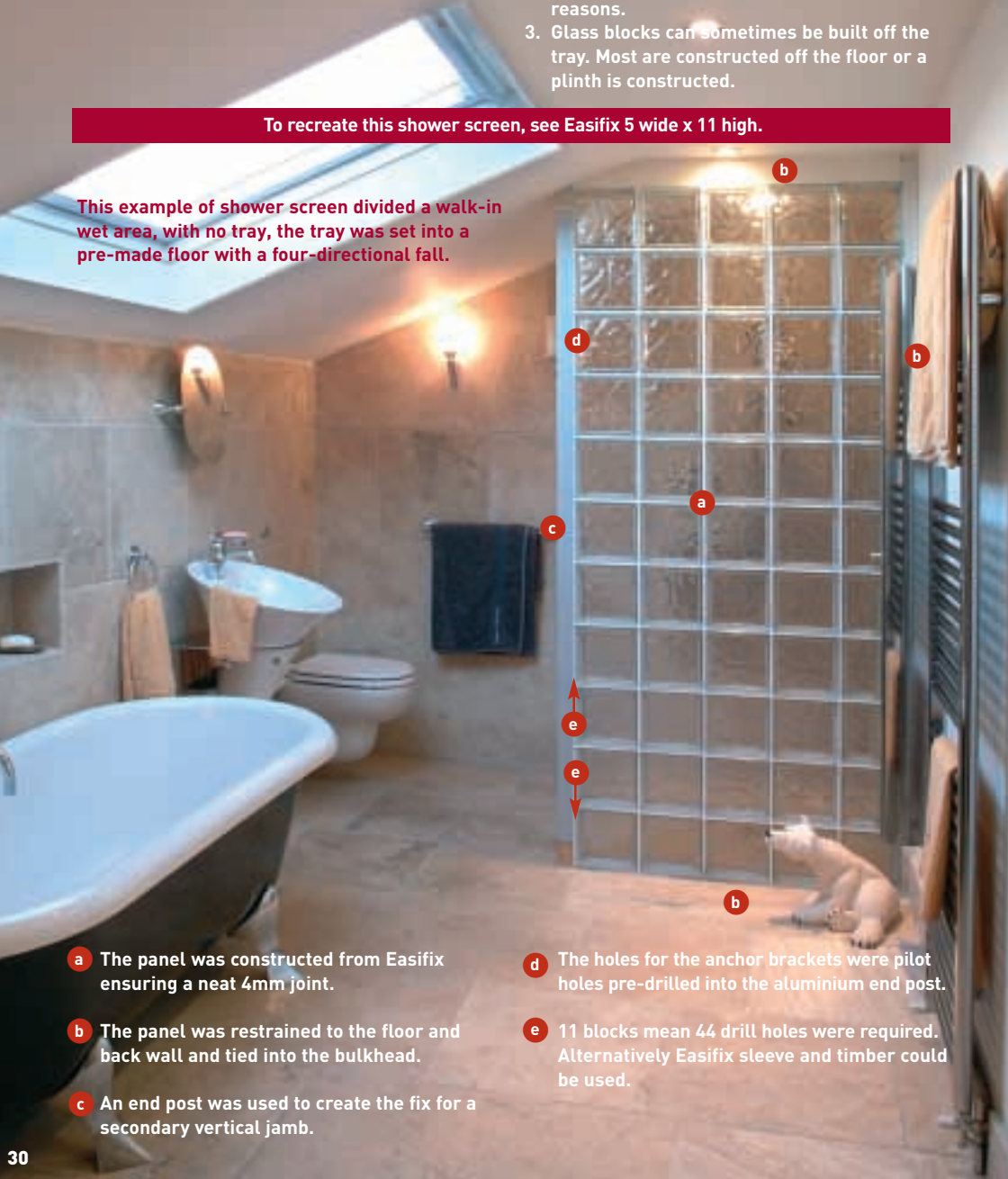
Shower screens can be constructed using either Rods & Mortar or Easifix. Precast Easifix can be used, however all the U channel has to be silicone sealed at mitres and where clamp holds panels in position.

**Hints:**

1. Panel should be restrained to the base and at least two vertical sides (jamb).
2. It is not recommended to have shower screens free standing or open ended a) for safety and stability and b) aesthetical reasons.
3. Glass blocks can sometimes be built off the tray. Most are constructed off the floor or a plinth is constructed.

To recreate this shower screen, see Easifix 5 wide x 11 high.

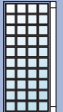
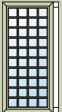

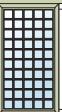


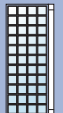
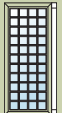
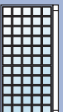
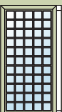


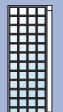
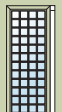
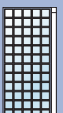
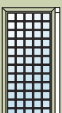
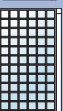
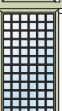
This example of shower screen divided a walk-in wet area, with no tray, the tray was set into a pre-made floor with a four-directional fall.



- a** The panel was constructed from Easifix ensuring a neat 4mm joint.
- b** The panel was restrained to the floor and back wall and tied into the bulkhead.
- c** An end post was used to create the fix for a secondary vertical jamb.

- d** The holes for the anchor brackets were pilot holes pre-drilled into the aluminium end post.
- e** 11 blocks mean 44 drill holes were required. Alternatively Easifix sleeve and timber could be used.

## EASY TO SELECT SHOWER SCREEN KITS



RODS & MORTAR ACCESSORIES		EASIFIX ACCESSORIES		
<b>4x10 blocks</b>	810x210mm 	<ul style="list-style-type: none"> <li>4 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>15 1.2m stainless steel reinforcement bar</li> <li>50 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	816x1980mm 	<ul style="list-style-type: none"> <li>4 Easifix profile - 2.40m</li> <li>50 Easifix profile - 185mm</li> <li>7 Dow Corning Silicon (clear)</li> <li>20 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>5x10 blocks</b>	1010x210mm 	<ul style="list-style-type: none"> <li>5 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>17 1.2m stainless steel reinforcement bar</li> <li>66 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	1010x1980mm 	<ul style="list-style-type: none"> <li>6 Easifix profile - 2.40m</li> <li>60 Easifix profile - 185mm</li> <li>9 Dow Corning Silicon (clear)</li> <li>20 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>6x10 blocks</b>	1210x210mm 	<ul style="list-style-type: none"> <li>5 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>20 1.2m stainless steel reinforcement bar</li> <li>77 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	1204x1980mm 	<ul style="list-style-type: none"> <li>6 Easifix profile - 2.40m</li> <li>70 Easifix profile - 185mm</li> <li>10 Dow Corning Silicon (clear)</li> <li>20 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>4x11 blocks</b>	810x2210mm 	<ul style="list-style-type: none"> <li>4 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>16 1.2m stainless steel reinforcement bar</li> <li>55 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	816x2174mm 	<ul style="list-style-type: none"> <li>4 Easifix profile - 2.40m</li> <li>55 Easifix profile - 185mm</li> <li>8 Dow Corning Silicon (clear)</li> <li>22 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>5x11 blocks</b>	1010x2210mm 	<ul style="list-style-type: none"> <li>5 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>17 1.2m stainless steel reinforcement bar</li> <li>66 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	1010x2174mm 	<ul style="list-style-type: none"> <li>6 Easifix profile - 2.40m</li> <li>66 Easifix profile - 185mm</li> <li>10 Dow Corning Silicon (clear)</li> <li>22 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>6x11 blocks</b>	1210x2210mm 	<ul style="list-style-type: none"> <li>6 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>22 1.2m stainless steel reinforcement bar</li> <li>84 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	1204x2174mm 	<ul style="list-style-type: none"> <li>6 Easifix profile - 2.40m</li> <li>77 Easifix profile - 185mm</li> <li>11 Dow Corning Silicon (clear)</li> <li>22 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>4x12 blocks</b>	810x2410mm 	<ul style="list-style-type: none"> <li>4 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>17 1.2m stainless steel reinforcement bar</li> <li>60 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	816x2368mm 	<ul style="list-style-type: none"> <li>5 Easifix profile - 2.40m</li> <li>60 Easifix profile - 185mm</li> <li>8 Dow Corning Silicon (clear)</li> <li>24 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>5x12 blocks</b>	1010x2410mm 	<ul style="list-style-type: none"> <li>5 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>19 1.2m stainless steel reinforcement bar</li> <li>78 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	1010x2368mm 	<ul style="list-style-type: none"> <li>7 Easifix profile - 2.40m</li> <li>72 Easifix profile - 185mm</li> <li>10 Dow Corning Silicon (clear)</li> <li>24 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>
<b>6x12 blocks</b>	1210x2410mm 	<ul style="list-style-type: none"> <li>6 10kg Glass Block Mortar</li> <li>0 0.6m stainless steel reinforcement bar</li> <li>25 1.2m stainless steel reinforcement bar</li> <li>91 10mm spacer peg</li> <li>3 Expansion foam - 2m</li> <li>1 Bitumen expansion material - 2m</li> <li>3 Dow Corning silicone (white)</li> </ul>	1204x2368mm 	<ul style="list-style-type: none"> <li>7 Easifix profile - 2.40m</li> <li>84 Easifix profile - 185mm</li> <li>12 Dow Corning Silicon (clear)</li> <li>24 Anchor brackets</li> <li>3 Timber - 2.40m</li> <li>3 Easifix sleeve - 2.40m</li> </ul>

Note : Easifix panel dimensions are detailed including Easifix sleeve. If Easifix sleeve is not required (as shown on picture opposite), 17mm should be deducted from both sides and top and bottom of glass block panel.

## DO YOU REQUIRE AN END POST?

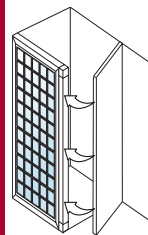
In order to restrain the glass block panel you may require an end post, it can be used for aesthetical reasons or to assist securing a door closure to, aswell as creating a secondary vertical fixing point. For more information see pages 26/27.

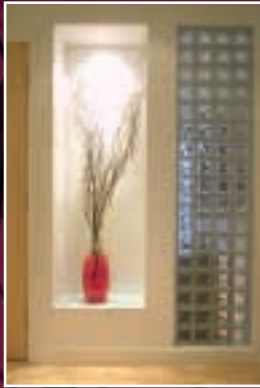
## TERMS

-  Easifix lists include Easifix sleeve and timber.
-  Ensure the perimeter joints are siliconed, not grouted to avoid cracking and ensuring water tight seal, whether installed in Rods & Mortar, Easifix or Precast Easifix.

For calculating panel sizes, refer to relevant Panel Kits page and add 50mm to horizontal dimension for end post width.

Always ensure door is hung to wall and closes towards end post.





## WHY CHOOSE GLASS BLOCKS?

- ✓ Superb visual and aesthetic appeal
- ✓ Thermal transmission :  $2.9\text{W/m}^2 \text{ }^\circ\text{C}$
- ✓ Light transmission : 80% clear blocks / 60% colour blocks
- ✓ Exceptional product versatility, externally or internally, for both commercial and domestic use
- ✓ Excellent sound insulation :  $\text{RW} = 42\text{dB}$

Information based on a typical  $190 \times 190 \times 80$  glass block.

All information is accurate to the best of our knowledge at time of going to press, however, colour images may vary slightly due to the printing process.  
Glass Block Technology Ltd cannot be held liable in any way regarding the usage of glass blocks and the manner in which they are installed.  
Glass Block Technology reserve the right to amend or correct changes at any time.