



Omega designs, manufactures and installs aluminium and PVC bi-fold doors, frames and patios in a wide variety of colours and configurations.

Our range of aluminium products is suitable for all types of residential and commercial applications and comes in strong and attractive slim-line profiles. We offer the complete range of windows, doors, bi-folds and patio doors, all designed whilst remaining practical and aesthetically pleasing to look at.

Our range of PVC products are amongst the most technological advanced in Europe, being manufactured to high standards, incorporating thermally efficient profiles and energy rated double and triple glazed sealed units.

### **Aluminium Patio doors**

Visoglide **Plus** patio doors are designed to create a stunning glass façade in order to maximise the glass areas, allowing you to enjoy beautiful views.

### **Features and Options (all designs are viewed from outside)**

- Available double or triple track to enable multiple sliders to move in the same direction
- Available with 2/3/4/5 or 6 sliding sashes
- The sliders are on the inside of the track unless otherwise requested
- High security 5 Point lock and one piece keep on main opening doors
- The standard handle is a lever/lever (see image overleaf), available in White, Black & Satin anodised. An optional D handle is also available in Satin anodised, White & Black.
- We are also able to colour match the handles to the profile, please ensure you notify us at point of order to avoid delays.
- Standard threshold width is 99mm (165mm triple track) with Nylon rollers at the bottom of the track providing smooth and easy operation (face drained as standard).
- An alternative outer frame is available to allow the internal floor finish to be flush with the top of the track, see the data sheet for details. This **MUST** be requested at the time of quoting/ordering.
- High quality EPDM gaskets and weather brushes to aid weather proofing
- Polyamide thermal barrier reduces heat loss and improves thermal performance
- Available in KL, RAL, Sensation range, wood affect and dual colour options
- Double glazed 28mm units, (planitherm, warm edge, argon) gives an overall 1.8 u-value
- Triple glazed 36mm units, (planitherm x1, warm edge, argon) gives an overall 1.6 u-value
- Triple glazed 36mm units, (planitherm x2, warm edge, argon) gives an overall 1.5 u-value
- Head vents are available in an additional 42mm frame extension

so you think all window companies are the same...think again!



## Visoglide **Plus** Aluminium Patio Doors

*New improved patio with better u-value*



Image above showing the standard lever/lever patio handles which are available in white, black or Satin anodised as standard. We are also able to colour match to the profile but you should tell us at the point of order to avoid delays as they are on a long lead time. Please note that the levers on these handles point upwards and having the locking barrels below.

Image below showing the optional D Handle which is available in white, black or satin anodised, as above we are also able to colour match this to the profile.



**PLEASE NOTE** that we fit the sliders on the inside unless otherwise specified

## Lead Times

- Lead times vary depending in the colour of the aluminium you select
  - Bi-folds in white are available in the shortest time
  - KL and Sensation colours are on slightly longer lead times
  - Dual colours are on the longest lead time

## Colour

- Below is our standard range of KL colours, please note that these colours are intended as a guide only and you should always request a KL colour chart for a more accurate image. These colours can be applied the same to both sides of the profile or you can mix and match and choose different colours for inside and out, referred to as dual colour.



- We also offer a range of colours called "Sensation", these combine unique colours and textures. Below is just a sample, please ask to see the full range.



- We also offer a range of wood effect colours, please ask to see the full range of finishes, again these can be mixed and matched with any of the other colours above.





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6 door option – on a triple track

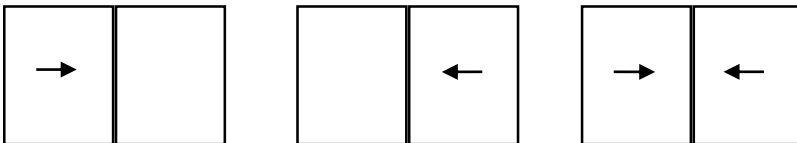


**PLEASE NOTE**  
That we fit the sliders on the inside unless otherwise specified

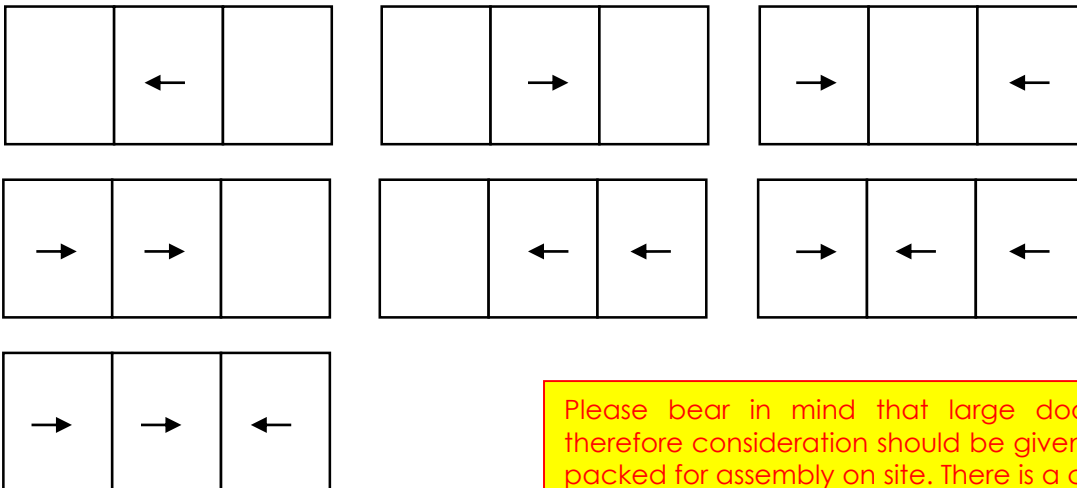
## Configurations

- There are many different configurations, depending on the overall size of the patio doors, the number of door sashes you require and what combination you want them sliding in.
- The maximum height is 2550mm
- The maximum weight per door leaf is 200kg

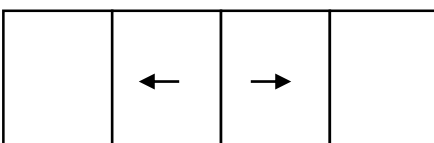
### 2 Door options



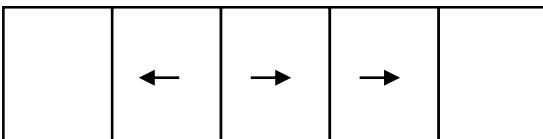
### 3 Door options



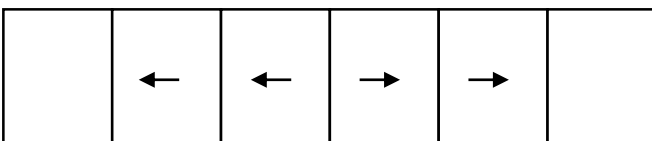
### 4 Door options



### 5 Door options



### 6 Door options



Please bear in mind that large doors are heavy and therefore consideration should be given to having them flat packed for assembly on site. There is a charge for this option as the doors are fully fabricated before being dismantled and wrapped separately. Fully assembly and installation instructions are available on request.

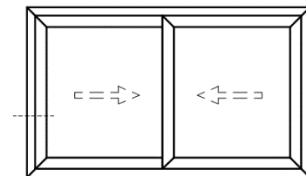
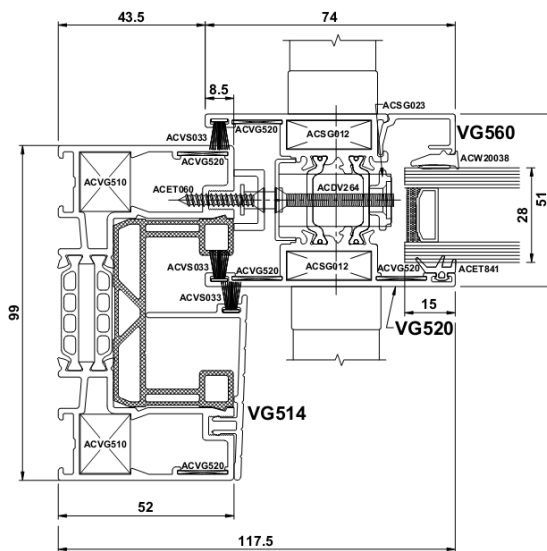
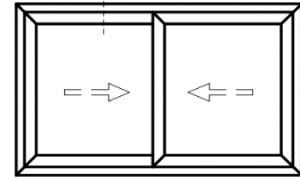
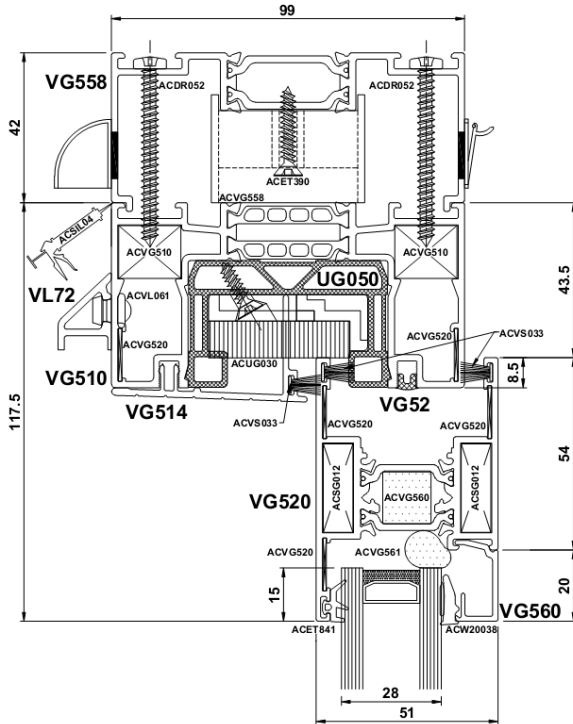
We strongly recommend that you install either a cavity tray or DPC membrane between the cill and the brickwork.

**Sliders on the inside unless otherwise specified**



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### Cross sections of the double track patio

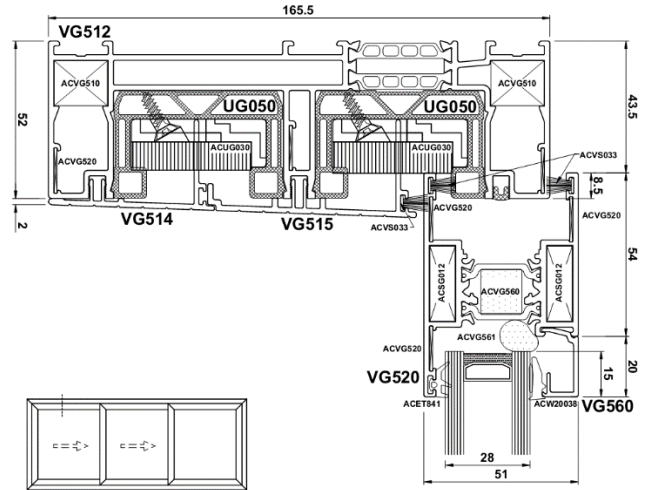
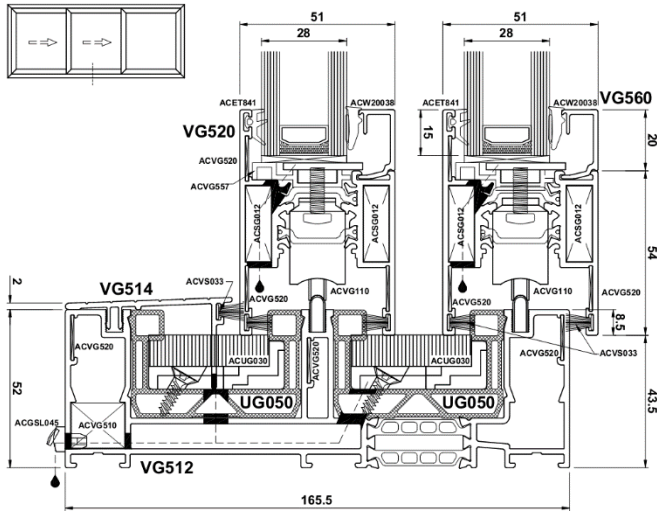


Sliders on the inside unless otherwise specified / Patio outer frames are face drained as standard



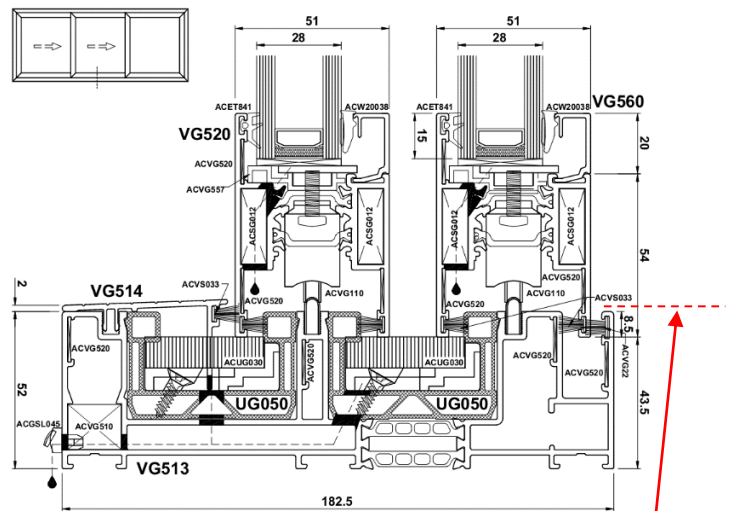
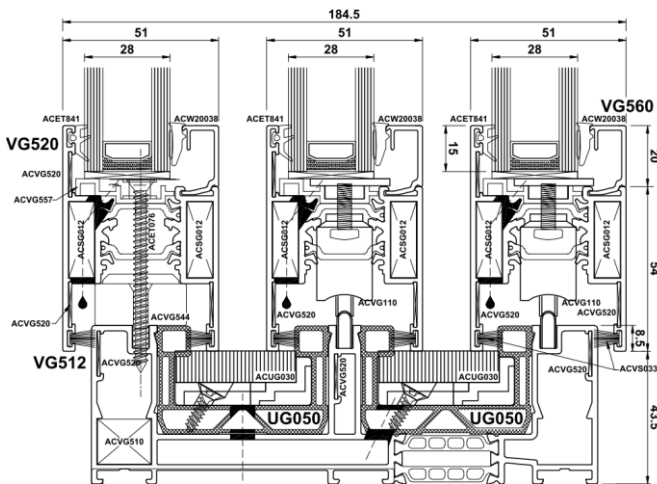
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**Cross sections of the triple track patio**



**Standard triple track outer frame**

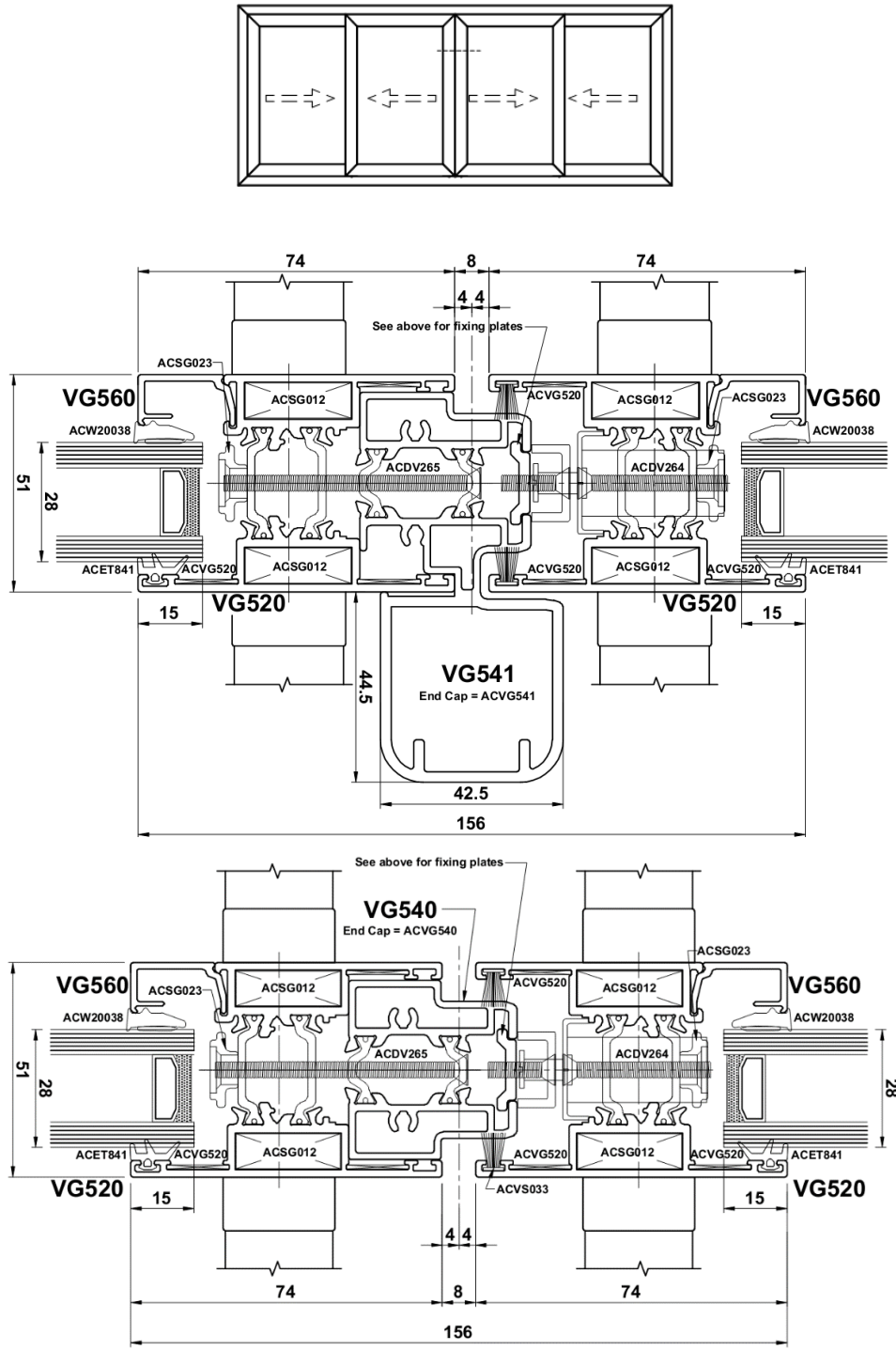
**Optional flush fitting triple track outer frame**



VG513 outer frame allows the internal floor level to finish flush with the top lip of the patio outer frame

**Sliders on the inside unless otherwise specified / Patio outer frames are face drained as standard**

**Cross sections of the 4 Pane patio with standard & HD Mullion**



Sliders on the inside unless otherwise specified / Patio outer frames are face drained as standard

## Installation of Aluminium windows and doors

Care should be taken to ensure that you make allowance for the expansion and contraction of the frame, the aperture tolerances and the thickness of any silicone or mortar bed at the sub-sill. The following table should be used as a guide.

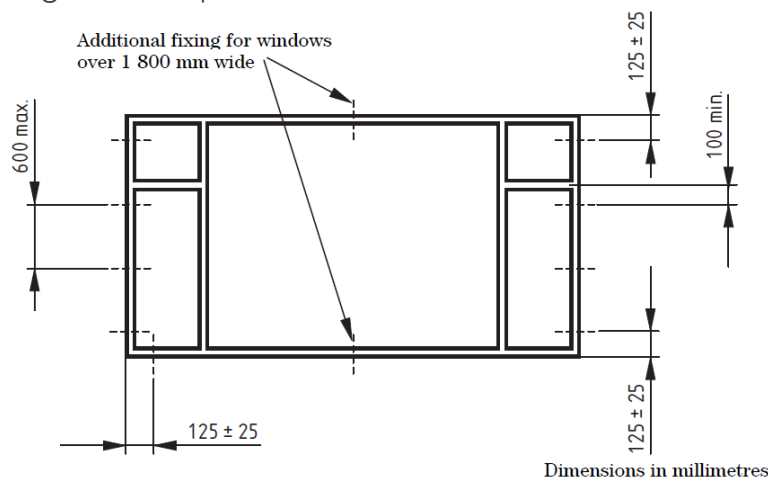
Material	Recommended deduction for width or height of structural opening			
	Up to 1.5 m	From 1.5 m to 3.0 m	From 3.0 m to 4.5 m <sup>A)</sup>	Over 4.5 m <sup>A)</sup>
GRP	5	10	15	15
PVC-U – white	10	10	15	20
PVC-U – non-white	15	15	22	28
Timber	10	10	10	15
Steel	8	10	12	15
Aluminium	10	10	15	20

*NOTE 1* These deductions are from the total width or height, and are not “per side”.  
*NOTE 2* The gap required for effective polyurethane foam fixing at the head is 10 mm to 15 mm.  
*NOTE 3* When fitting aluminium or steel frames into existing timber sub-frames, deduct 4 mm.

<sup>A)</sup> Intermediate expansion joints might be needed when the width or height exceeds 3 m.

When fixing the frames ensure that all four sides are secured as follows.

- Corner jamb fixings should be between 100 mm and 150 mm from the external corner.
- No fixings should be less than 100 mm from the centre line of a mullion or transom.
- Intermediate fixings should be at centres no greater than 600 mm.
- There should be a minimum of two fixings on each jamb.
- On windows and doorsets over 1800 mm wide, central head and sub-sill fixings should be provided.
- Cills are fixed in the correct locations (i.e. not through the drainage chamber)
- Full length end caps are fitted and sealed to all cills



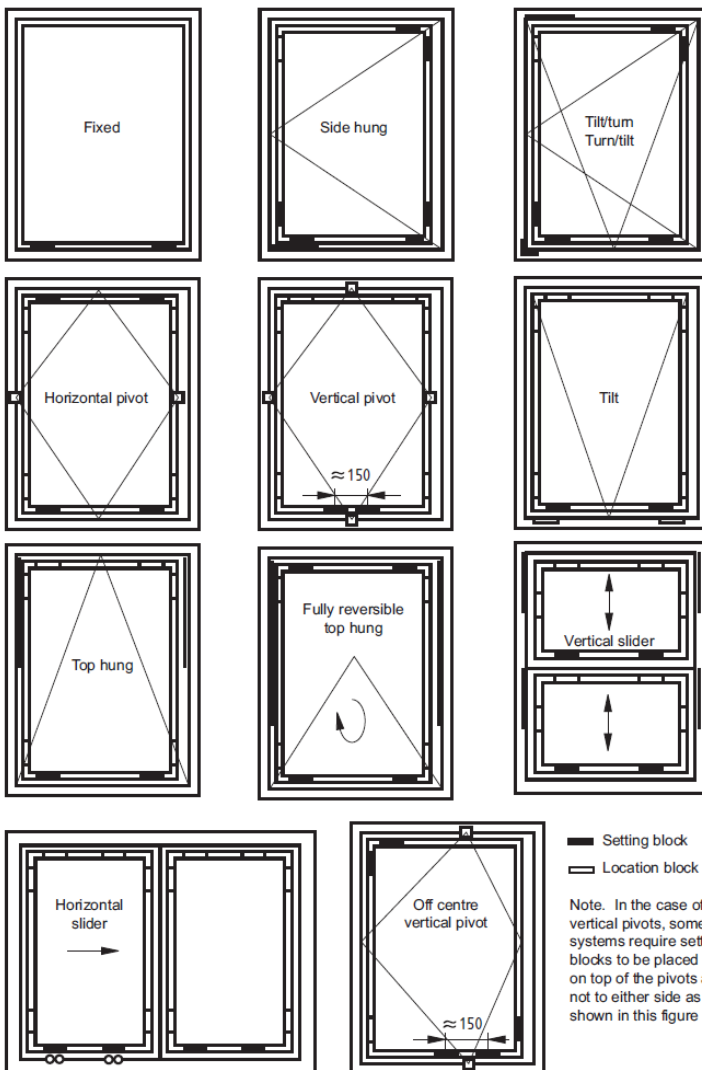
When building up components on coupled frames, care should be taken to keep coupling joints equal, and frames both aligned and plumb. Coupled assemblies should be fastened together in accordance with the manufacturer's instructions. Where the coupling is structural, the system supplier's recommendations should be followed.



Care should be taken to ensure windows and doorsets are installed plumb and square within the aperture, without twist, racking or distortion of any member in accordance with the manufacturer's recommended tolerances, to operate correctly after installation.

Installation packers should be used adjacent to fixing positions to prevent outer frame distortion during installation. Installation packers should be resistant to compression, rot and corrosion. They should span the full depth of the outer frame. The fixings should be tightened so that the frame is held securely against the packers. Over-tightening can lead to distortion and should be avoided. Some lugs need to be packed off the substrate to prevent distortion. Where enhanced security is required, additional packers might be necessary adjacent to hinge and locking points.

Insulating glass units, setting and location blocks, distance pieces, frame to glass and bead to glass gaskets, bead to frame air seals, corner sealing blocks, beads and bead end caps, bedding and capping sealants should be installed in accordance with BS 8000-7.



Please ensure that you glaze the products in accordance with these guidelines.

Failure to glaze the products correctly, especially bifold and patio doors will lead to operational problems.

Any site visits required to adjust doors that have not been glazed correctly will be chargeable.

**Please note**

We strongly recommend that you install either a cavity tray or DPC membrane between the cill and the brickwork.