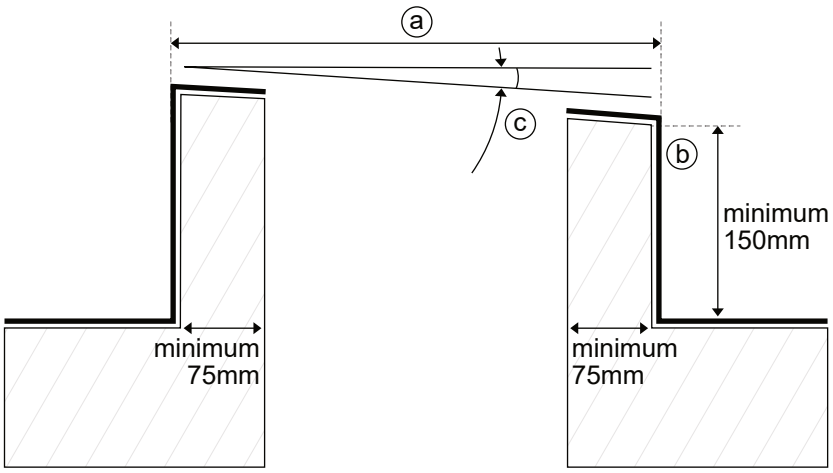
Flat Glass

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 06/4385

TB400

Fixed Flat Glass Rooflight
Builders upstand and pitch requirements

Upstand and pitch requirements



ⓐ Finished insulated and weathered upstand external dimension:
Unvented rooflight = Nominal Rooflight size (+20/-0mm)
Vented rooflight = Nominal Rooflight size (+40/-20mm)

ⓑ Roof covering should cover side and top of insulated upstand in accordance with manufacturer's installation recommendations.

NB there should be no excessive build up of layers. The top surface should be level and free from protrusions or projections.

ⓒ The rooflight must be mounted at a minimum pitch (dependent on size, shown below) to ensure adequate water runoff. If the roof fall is less than required then the upstand itself should be built with a pitch.

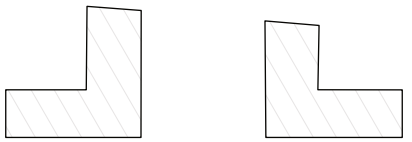
Flat Glass units are suitable for mounting at pitches of 2°-15°.

A minimum pitch of 2° or 4° is required to prevent water ponding on the glass leading to rapid dirt build up. See matrix for minimum pitch according to size.

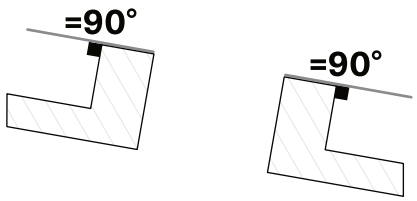
Unit Width \ Unit Length	600	750	900	1000	1050	1200	1350	1500	1650	1800	1950	2000	2100	2250	2400	2550	2700	2850	3000
600	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°
750		2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°
900			2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	4°	4°	4°
1000				2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	4°	4°	4°	4°	4°
1050					2°	2°	2°	2°	2°	2°	2°	2°	2°	2°	4°	4°	4°	4°	4°
1200						2°	2°	2°	2°	2°	2°	4°	4°	4°	4°	4°	4°	4°	4°
1350							2°	2°	2°	2°	2°	4°	4°	4°	4°	4°	4°	4°	4°
1500								4°	4°	4°	4°	4°	4°	4°	4°	4°	4°	4°	4°
1650									4°	4°	4°	4°	4°	4°	4°	4°	4°	4°	4°
1800										4°	4°	4°							
1950											4°	4°							
2000												4°							

For finished roof pitches that are less than the minimum needed then the pitch can be built into the upstand.

If finished roof pitch is greater than 5 degrees then the top of the upstand must be perpendicular to the sides and parallel with the roof surface.

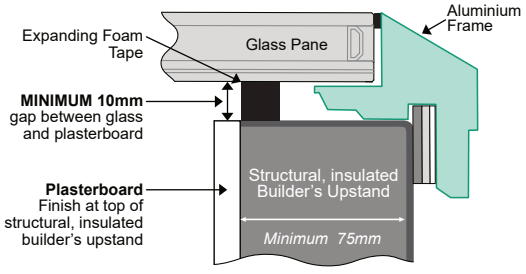


Roof pitch less than minimum required



Roof pitch more than 5 degrees

Plasterboard guidance



Finish plasterboard at the top of the structural, insulated builder's upstand, ensuring there is a MINIMUM 10mm gap between the plasterboard and the underside of the glass. For more information see TB409.

Annealed, laminated inner pane

These Flat Glass rooflights are manufactured using double glazing which includes an inner pane of annealed, laminated safety glass, which prevents falling glass in the event of accidental breakage, for the safety of those below the rooflight.

In some circumstances, annealed, laminated safety glass can be subject to thermal stress fracture in the event of uneven heat build-up directly under the glass. Installation of blinds, or any other alterations made to the lightwell below the rooflight, must be done so with consideration to the risk of thermal stress fracture. In the case of blinds, the risk of thermal stress fracture can never be fully removed, but it can be reduced by choosing light coloured blinds, positioning them as far away from the glass as possible, and including ventilation in the rooflight specification.

More detailed guidance can be obtained upon request.

THE ONLY SAFE CHOICE FOR OVERHEAD GLAZING
LAMINATED INNER PANE
ENDORSED BY THE ROOFLIGHT ASSOCIATION

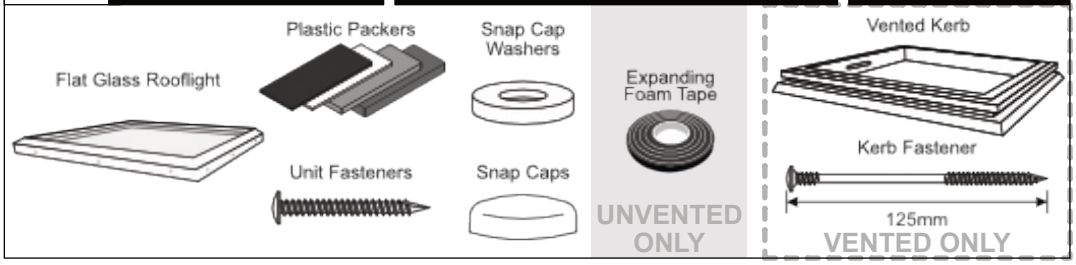
ⓘ **TECHNICAL SUPPORT:** For any technical information/queries please contact your supplier.

The manufacturer operates a policy of continuous product improvement, and reserves the right to alter specifications at any time without notice. Every effort has been taken to ensure all details contained in this document are correct at the time of going to press but this document should be used only as a guide and does not in any way form part of a contract or warranty. It is the customer's responsibility to ensure that the product is suitable for the actual conditions of use, which are beyond the control of the manufacturer.

TB400

Fixed Flat Glass Rooflight on builders upstand

Contents | ! Take care when unpacking | Check all correct parts are included and undamaged | Only use fixings supplied



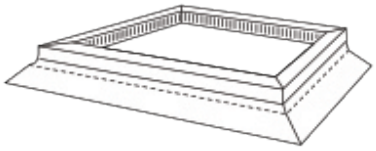
Kerb	Fixing Quantities
Length of Nominal Unit Side (mm)	Number of fixings per side
750 and under	2
751 to 1200	3
1201 to 1650	4
1651 to 1950	5
1951 to 2250	6
2251 to 3000	7

! All Health & Safety Regulations must be followed on site throughout the installation process

⚠ WARNING! Flat glass units are heavy. Some units may require a mechanical lift.

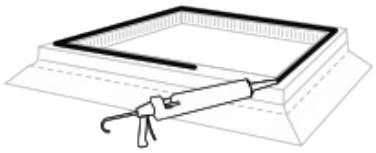
Glass Unit	Fixing Quantities
Length of Nominal Unit Side (mm)	Number of fixings per side
899 and under	2
900 to 1500	3
1501 to 2000	5
2001 to 2500	7
2501 to 3000	9
3001 to 3600	11

1 Prepare upstand in accordance with requirements on page 1

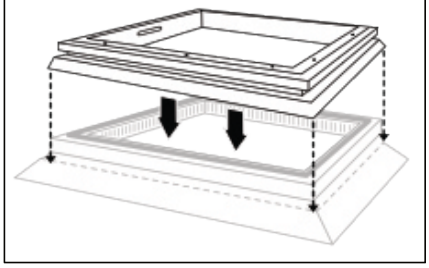


VENTED ONLY

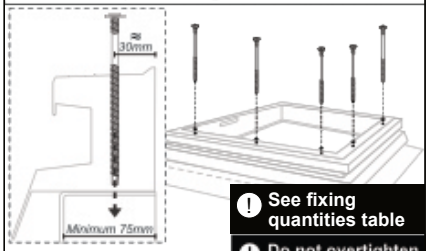
2 Mastic/Silicone around top inside edge of upstand



3 Place kerb squarely onto upstand



4 Fix kerb to upstand using 125mm kerb fasteners

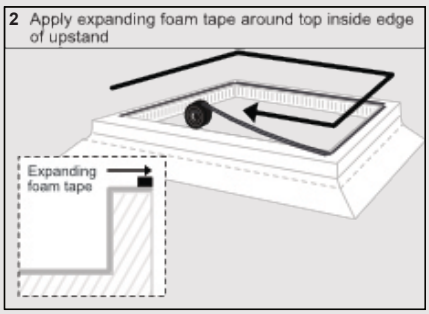


! See fixing quantities table

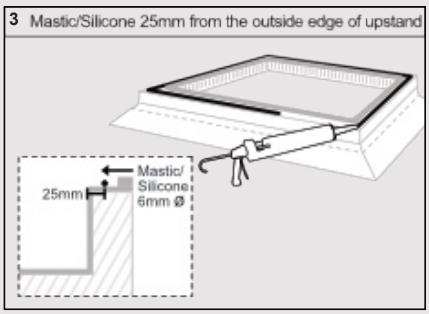
! Do not overtighten fasteners

UNVENTED ONLY

2 Apply expanding foam tape around top inside edge of upstand

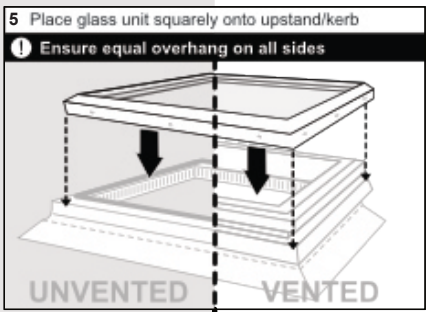


3 Mastic/Silicone 25mm from the outside edge of upstand

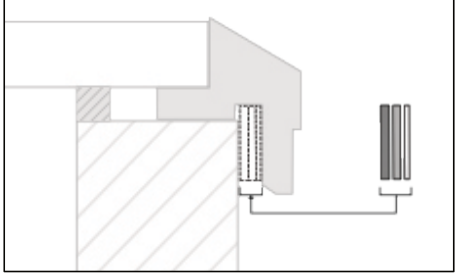


5 Place glass unit squarely onto upstand/kerb

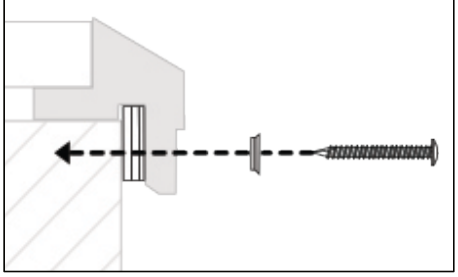
! Ensure equal overhang on all sides



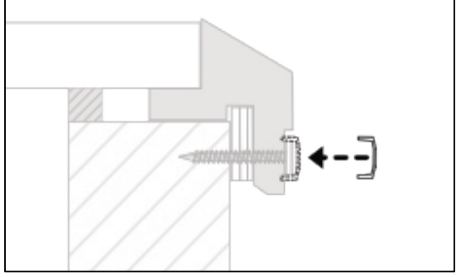
6 Place plastic packers to fill the gap between the frame and the upstand/kerb at screw holes



7 Screw in supplied unit fasteners through the snapcap washers and plastic packers



8 Fit snapcaps over the head of each fastener

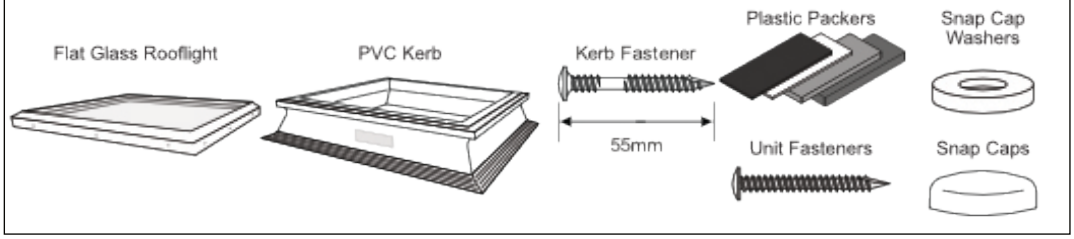


ⓘ **TECHNICAL SUPPORT:** For any technical information/queries please contact your supplier.
The manufacturer operates a policy of continuous product improvement, and reserves the right to alter specifications at any time without notice. Every effort has been taken to ensure all details contained in this document are correct at the time of going to press but this document should be used only as a guide and does not in any way form part of a contract or warranty. It is the customer's responsibility to ensure that the product is suitable for the actual conditions of use, which are beyond the control of the manufacturer.

TB400

Fixed Flat Glass Rooflight on PVC kerb

Contents | ! Take care when unpacking | Check all correct parts are included and undamaged | Only use fixings supplied



Kerb	Fixing Quantities
Length of Nominal Unit Side (mm)	Number of fixings per side
750 and under	2
751 to 1200	3
1201 to 1650	4
1651 to 1950	5
1951 to 2250	6
2251 to 3000	7

! All Health & Safety Regulations must be followed on site throughout the installation process

⚠ WARNING! Flat glass units are heavy. Some units may require a mechanical lift.

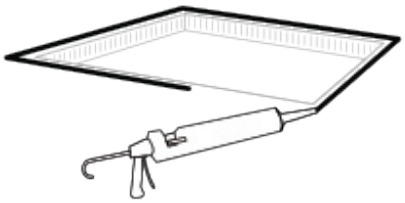
Glass Unit	Fixing Quantities
Length of Nominal Unit Side (mm)	Number of fixings per side
899 and under	2
900 to 1500	3
1501 to 2000	5
2001 to 2500	7
2501 to 3000	9
3001 to 3600	11

ⓘ Unit pitch

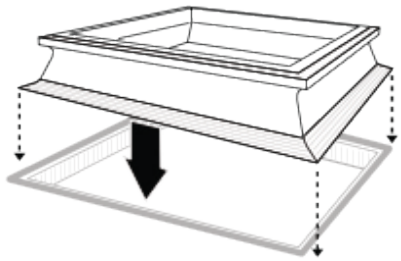
See page 1 for minimum roof pitch requirements.

If roof pitch is less than the minimum required then firring strips should be used to ensure unit is installed with adequate pitch.

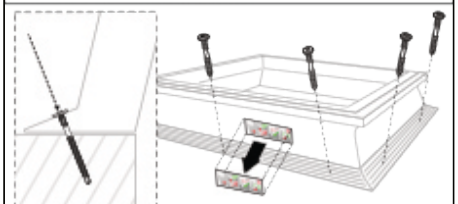
1 Mastic/Silicone around the edge of the roof opening



2 Place kerb squarely over roof opening

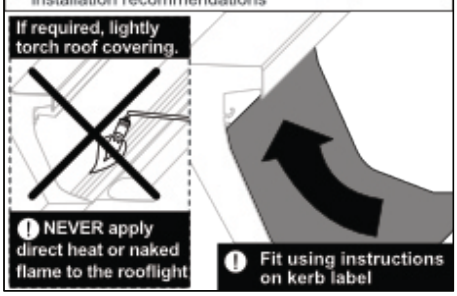


3 Fix kerb to roof using 55mm kerb fasteners **Remove and retain label**

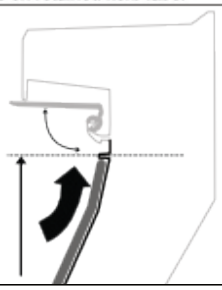


! See fixing quantities table
! Do not overtighten fasteners

4 Install roof covering according to manufacturer's installation recommendations

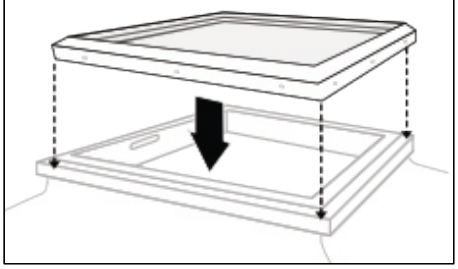


5 Terminate roof covering in accordance with instructions on retained kerb label

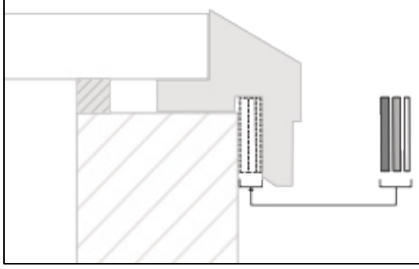


6 Place glass unit squarely onto upstand/kerb

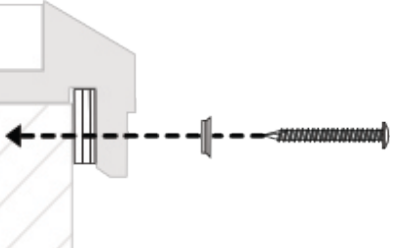
! Ensure equal overhang on all sides



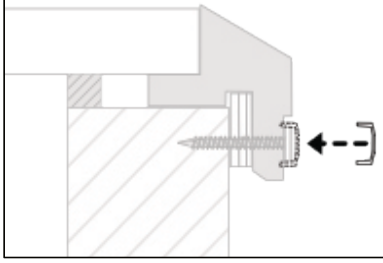
7 Place plastic packers to fill the gap between the frame and the upstand/kerb at screw holes



8 Screw in supplied unit fasteners through the snapcap washers and plastic packers



9 Fit snapcaps over the head of each fastener



ⓘ **TECHNICAL SUPPORT:** For any technical information/queries please contact your supplier.
The manufacturer operates a policy of continuous product improvement, and reserves the right to alter specifications at any time without notice. Every effort has been taken to ensure all details contained in this document are correct at the time of going to press but this document should be used only as a guide and does not in any way form part of a contract or warranty. It is the customer's responsibility to ensure that the product is suitable for the actual conditions of use, which are beyond the control of the manufacturer.