

INSTALLATION INSTRUCTIONS

em-glaze™

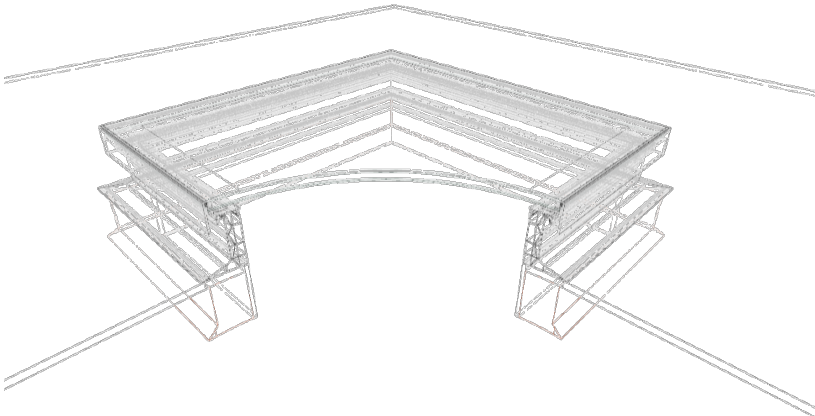
Modular Flat Glass Rooflight

These instructions should be used for:

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Product may vary



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These instructions should be used for:

- Constructing & Waterproofing a Timber Upstand Curb
- Installing & Waterproofing a Proprietary Curb
- Assembling & Installing onto Waterproofed Builder's Upstand
- Assembling & Installing onto a PVC Em-Curb

Tools Required

- Drill
- No.25 TX Torx Drive Bit
- Knife
- 3mm Drill Bit

Installation Pack

- Butyl Tape
- Fixing Screws

*Please read carefully before beginning your installation.
Contact your supplier if you are unsure about anything involved.*

Handling & storage

While all Em-Glaze Modular Flat Glass rooflights and associated products are suitably packaged to avoid damage, you should take care when handling them. Always ensure you there's an appropriate number of people available to move larger items.

All rooflights, curbs and accessories must be stored on a flat, dry surface under cover if they aren't going to be installed immediately. Please also ensure that heavy items are not stored on top of the units.

Em-Glaze Flat Glass rooflights should not be stored on edge at any time. This could cause detrimental damage to the silicone seal and create latent stresses within the glass.

Em-Glaze Modular Flat Glass components should not at any time be left in direct sunlight until installation is complete. Heavy items should not be placed on top of them as this can lead to damage or distortion.

The HSE publication *Safety in Roofwork HSG33* gives good advice on the necessary precautions, safe working practices and procedures that need to be adopted when working on roofs.

Maintenance

While Em-Glaze Modular Flat Glass rooflights are deemed non-fragile, rooflights should still be treated as fragile surfaces and should not be walked upon under any circumstances, unless the unit has been designed as a walk-on rooflight. Once installed you should check fixings, ventilation and sealing tape where applicable once a year. Avoid all contact with: silicone, wood preservative, adhesives and sealing tapes.

Remove tar stains with turpentine and rinse thoroughly with water. Clean with mild soapy water (no abrasives) and always rinse with plenty of fresh water. In normal weather and site conditions, occasional cleaning is required to maintain their present condition. No other maintenance should be necessary.

NB: Installation must comply with all applicable local building regulations.

Instructions:

01: Constructing & Waterproofing a Timber Upstand Curb

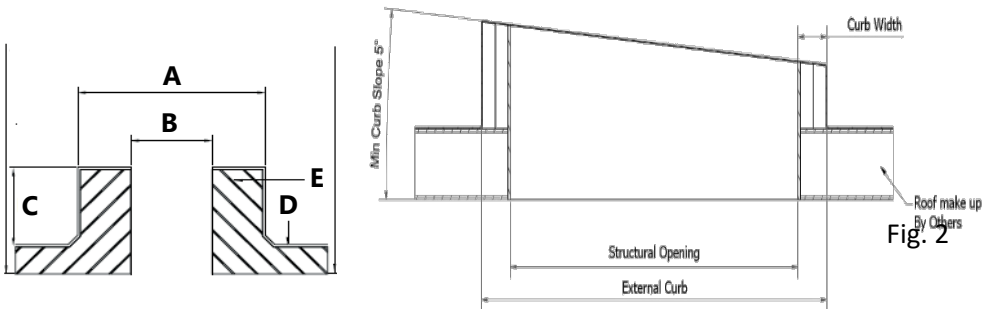
Construct the upstand using minimum 50mm thick timber to finish 150mm above the finished roof level.

Upstand must be flat-topped (we recommend a 5° slope angle for water run-off. See Fig. 2). Apply the waterproofing (in accordance with Manufacturers Recommendations) up and right across top of upstand to give a flat even surface.

Construct the upstand according to the external size required. Note that the thickness of material will affect the daylight size.

e.g. Size Ref No S9

- A Overall upstand size (External) 1100 x 1100mm
- B Internal upstand Size (Inc Lining) Dependant of width of material
- C Minimum height 150mm
- D Waterproofing
- E Builders curb



This will provide for a maximum waterproofing thickness of 15mm all around

Note: for asphalt in excess of 13mm thick, contact your supplier.

02: Installing & Waterproofing a Proprietary Curb

Installing:

We recommend installing all PVC curbs on a 5° slope. If this isn't achieved via the roof slope, then you will need to add timber furring pieces under the base of the curb.

Drill and securely fix the curb to the roof aperture through the bottom flange, 100mm from each corner and at maximum 300mm centered. Use very large-headed fixings (not supplied), with type and size dictated by site conditions. Upstand curbs should be fixed to a structural component (i.e. not fixed through insulation).

The 150mm-high curb should not be fitted below roof insulation. The 300mm- high curb can be used with roof insulation up to 150mm thick if unvented, or up to 60mm thick if vented. If fitted with insulation in excess of these recommendations, a timber ground cut to 75mm wide x the required thickness should be provided around the roof aperture.

Waterproofing:

Apply the waterproofing (in accordance with the manufacturer's recommendations) up to the underside of the top flange (**see Fig.1**). On vented 300mm-high curbs the waterproofing must be neatly dressed around the ventilators and up to the underside of the top flange.

Bitumen felt and torch-on systems: The Em-Curb should be primed and standard application techniques used. When using torch-on, the torch should be directed at the waterproofing and not directly at the Em-Curb (**see Fig.2**).

Single ply systems: These may be solvent or heat-welded and mechanically fixed to the Em-Curb, depending on the type of membrane. **Refer to the supplier for further information.**

Asphalt: The Em-Curb should be primed and expanded metal lathe (EML) metal should be affixed using staples with a maximum length of 10mm. The first coat of asphalt should be applied cooler than usual - approximately 180°. This layer should be as thin as is practically

possible. Because of the upstand's insulating properties, the heat cannot dissipate quickly and it is vital that you leave the first coat to cool completely before applying successive coats. These subsequent coats can be at normal temperature and thickness.

Drill and securely fix.

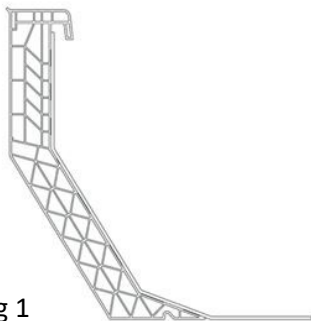


Fig 1

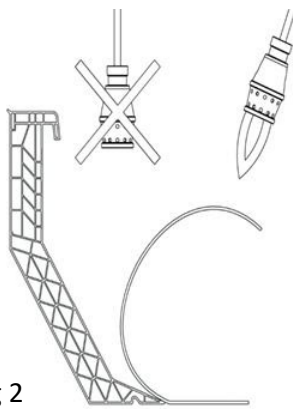


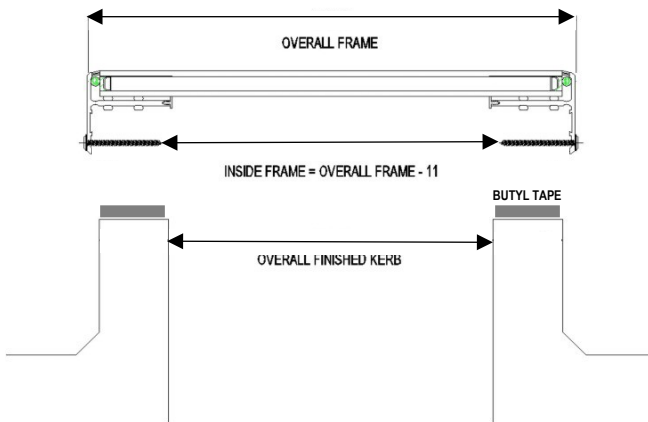
Fig 2

03: Assembling & Installing an Em-Glaze Modular Flat Glass Rooflight onto Waterproofed Builder's Upstand

1. Double check the external curb dimensions to ensure the upstand has been constructed to the correct sizing specification.

Note: Care should be taken to avoid damaging or scratching components.

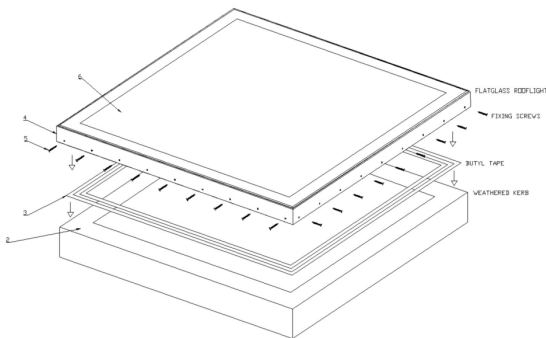
2. Check size of rooflight and the size of the external kerb to make sure the rooflight will fit down over the kerb.



3. Check the minimum kerb width required for installation. Whilst the product can be installed without detriment to the warranties, the manufacturer cannot be held responsible for any excessive pooling of water to the surface of the rooflight post installation, if installed without an adequate fall.

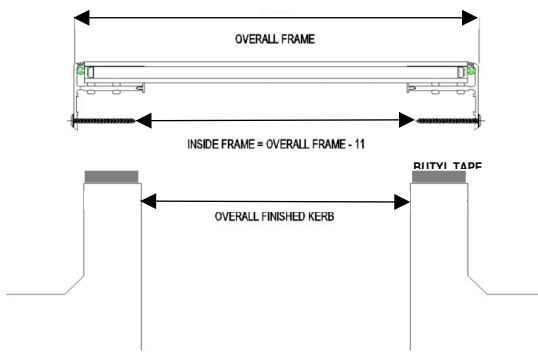
4. Position one or two beads of butyl / tape to the underside of the fixing frame, depending on the size of the rooflight (do one bead then see if there is enough room left for a second bead).
5. Position the rooflight onto the top of the kerb ensuring the butyl / tape is in contact with the kerb around the full perimeter of the kerb.

6. Using the fixing screws supplied, fix the frame to the kerb horizontally through the fixing holes pre-drilled in the lower part of the perimeter frame.
7. **PLEASE NOTE:** Once the rooflight has been installed, all the protective film should be removed on the day of installation. The protective film, which has no UV protection, will become brittle and difficult to remove over time and may damage the paint if left for a prolonged period.
8. Clean and snag any details.

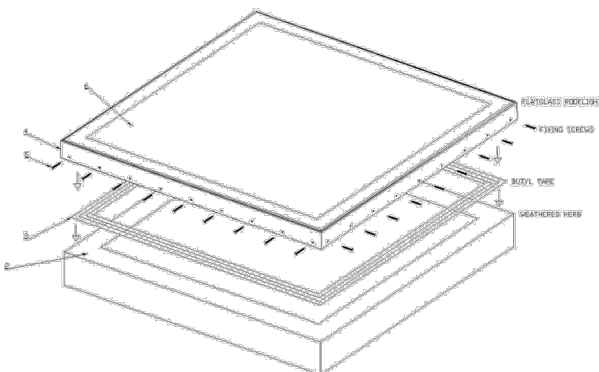


04: Assembling & Installing an Em-Glaze Modular Flat Glass Rooflight onto a PVC Em-Curb

1. Double check the external curb dimensions to ensure the upstand has been constructed to the correct sizing specification.
Note: Care should be taken to avoid damaging or scratching components.
2. Check size of rooflight and the size of the external kerb to make sure the rooflight will fit down over the kerb.



3. Check that the kerb is flat and in one continuous plane. We advise a minimum of 50 slope on the curb to minimize water pooling. Whilst the product can be installed without detriment to the warranties, the manufacturer cannot be held responsible for any excessive pooling of water to the surface of the rooflight post installation, if installed without an adequate fall.
4. The seal is provided in 1200mm lengths.
5. Cut the seal to length and butt joint where ever necessary to allow foam seal to be continuously installed around all four sides with no gaps.
6. Peel off backing and position foam seal around top face of curb / upstand 10mm in from daylight.
7. Position the rooflight onto the top of the kerb ensuring the foam tape is in contact with the metal frame around the full perimeter of the kerb.
8. Using the fixing screws supplied, fix the frame to the kerb horizontally through the fixing holes pre-drilled in the lower part of the perimeter frame.
9. **PLEASE NOTE:** Once the rooflight has been installed, all the protective film should be removed on the day of installation. The protective film, which has no UV protection, will become brittle and difficult to remove over time and may damage the paint if left for a prolonged period.
10. Clean and snag any details.



PLEASE PASS ONTO BUILDING OWNER/OCCUPIER

Glass Thermal Fracture

Your Em-Glaze Modular Rooflight is generally supplied with the internal pane as laminated glass to give maximum safety and security to personnel internally and externally.

Annealed laminated glass could be subject to thermal fracture and care should be taken to avoid uneven heat buildup under the glass.

Any installation of blinds, film or alterations to roof light-well, or other heat sources must consider the above and be installed/used in such a way to prevent risk of thermal fracture.

Further guidance can be obtained by contacting our Technical Team using the details on the following page.



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