



Skypod™

Pitched PVC-U skylights

Installation guide

ISSUE 1



All together better

Skypod™ pitched PVC-U skylights

Installation guide



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Good surveying is essential to ensure a trouble free successful installation and to avoid costly remakes caused by incorrect measuring.

When surveying it is the surveyor's responsibility to determine that the structural openings and surrounding areas are in a state of good repair and provide the correct dimensions for manufacture.

1. Surveying

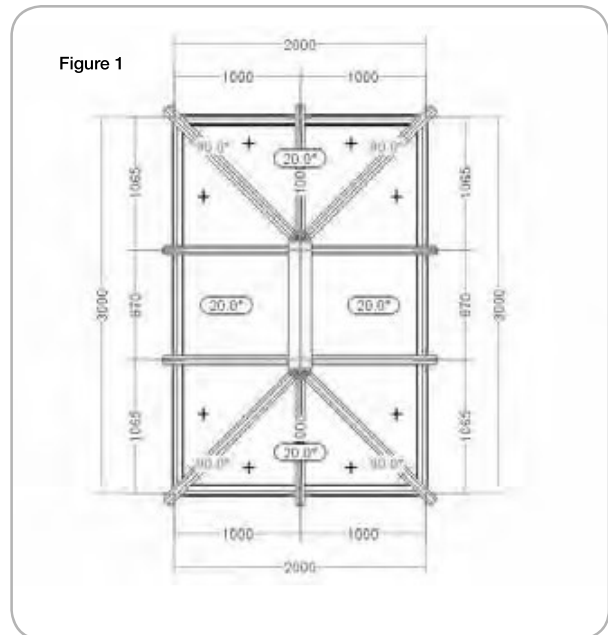


Before unpacking the Skypod roof, review the supplied layout drawing (shown in figure 1). The layout will be located in the ancillary box.

Ensure the dimensions of your host building are correct to the supplied. Skypod dimensions shown on the plan are the external face of the supporting upstand.

The Skypod ring beam allows a 10mm tolerance per face if the overall width and length of the upstand perimeter are oversized.

The upstand corners should also be square. Check the difference between the diagonals to see if the ring beam overhang will need adjusting around the perimeter.



Typical upstand (kerb) detail

Check diagonals to ensure the kerb is square (see figure 2).

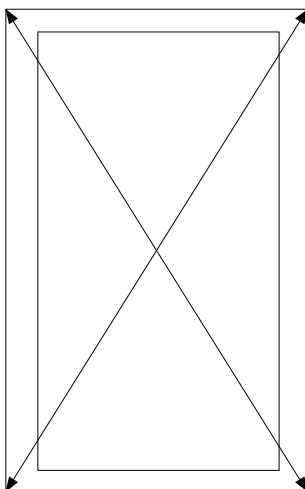
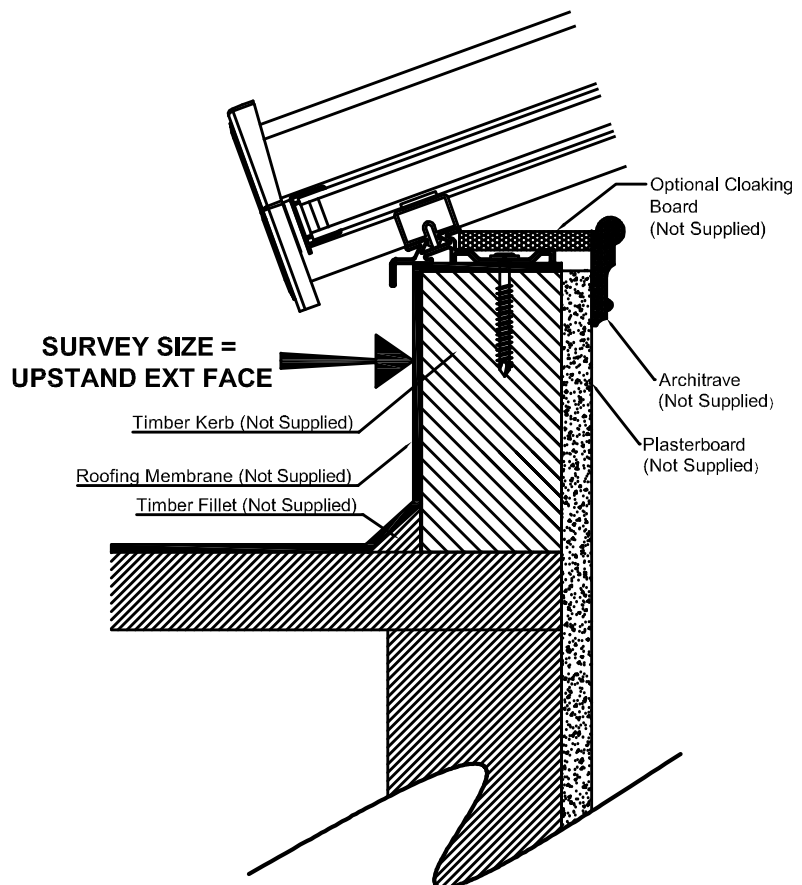
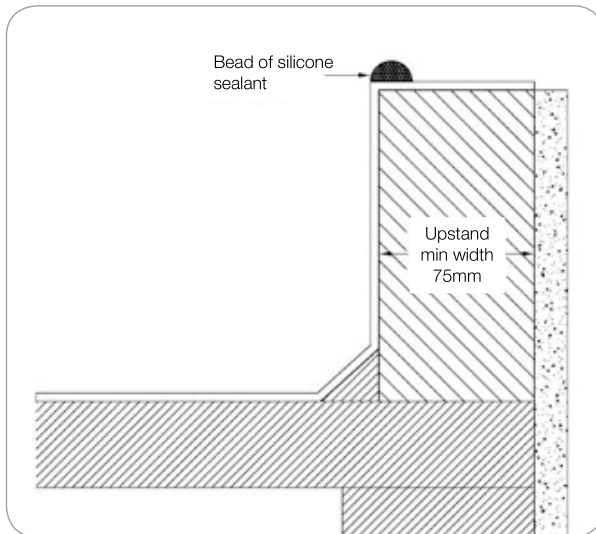


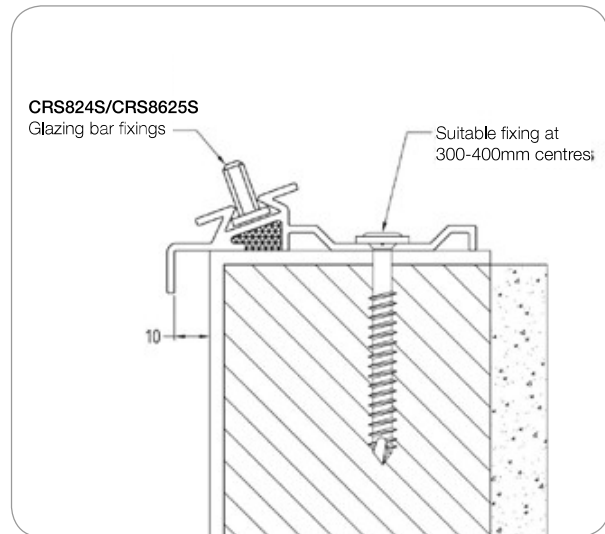
Figure 2



2. Installation



- 1 Ensure the kerb is clean and free from debris, then run a silicone bead around the external edge as shown above.



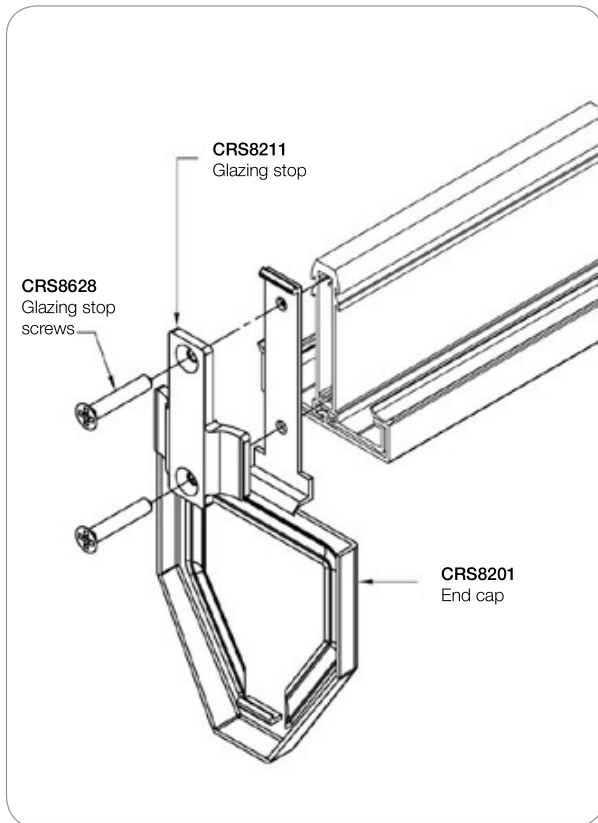
- 2 Ensure the correct amount of glazing bar fixing studs are slid into the ring beam before any fixing commences. Position the ring beams so an equal over hang is achieved around perimeter and fix using suitable 5-6mm fixing at 300-400mm centres starting and ending 100mm away from internal corner of the ring beam.



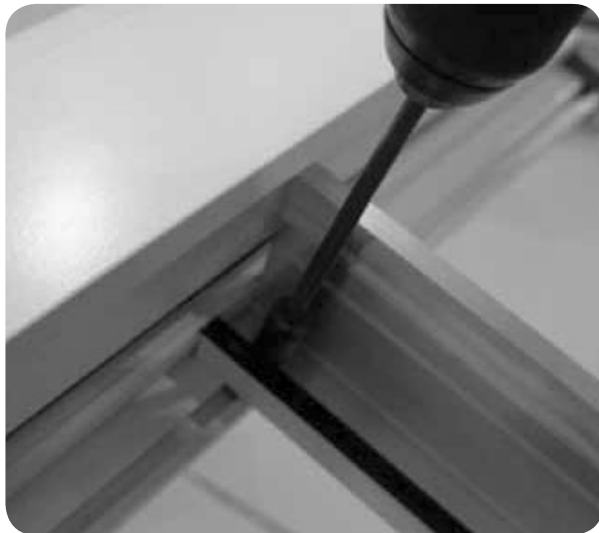
- 3 Run a bead of silicone sealant along the mitred edge of the ring beam to seal the corner joint, when the next ring beam is offered up.



- 4 Fix the adjacent ring beam ensuring the joint is tight. Remove any excess sealant and secure corner using a steel corner cleat with 4-off 4.8x25 LG screws (supplied).



- 5** If access to the bar ends is limited, it is advisable to fit the glazing stops and end caps as shown (left) before fixing rafters to the ring beam. You can then proceed to loosely secure the side rafters to the ring beam using the threaded studs located down the ring beam.



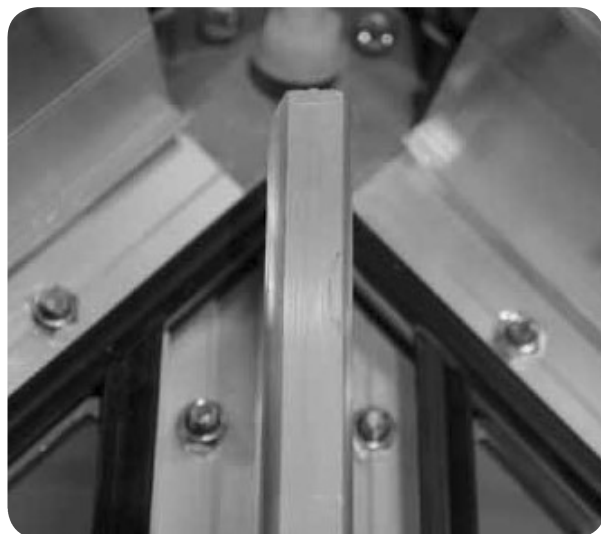
- 6** Supporting the ridge, the rafter bars can be secured to the ridge using the threaded studs. Once opposing rafters have been secured the ridge should be self supporting.



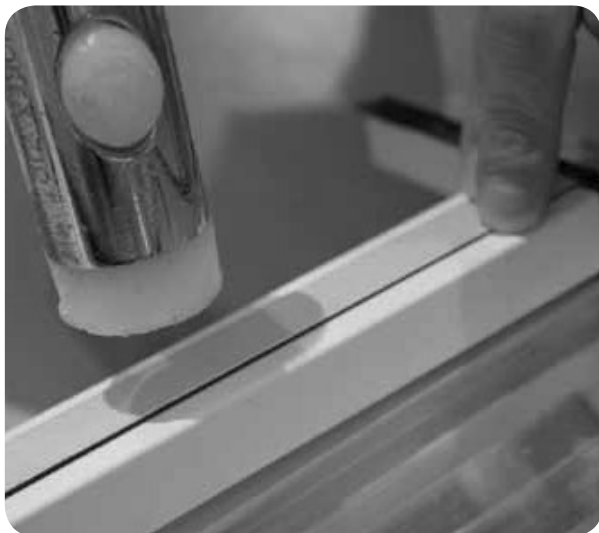
- 7** Using 2 x CRS8624S single studs, secure each hip to the spider casting. The body of the stud should locate between the retaining ribs on the lower casting face to stop the stud from spinning.



- 8** Locate the hips onto the external ring beam studs and loosely secure using fixing nuts.



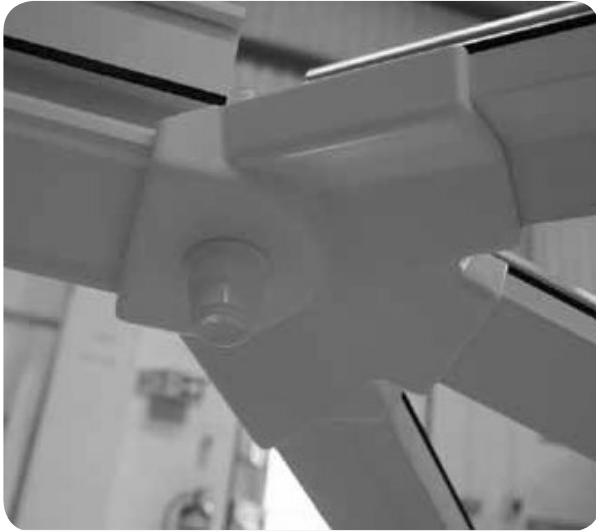
- 9** Fasten the central rafters to the spider using 1 x CRS8625S double stud and nuts. If jack rafters are present refer to additional information at end of this guide.



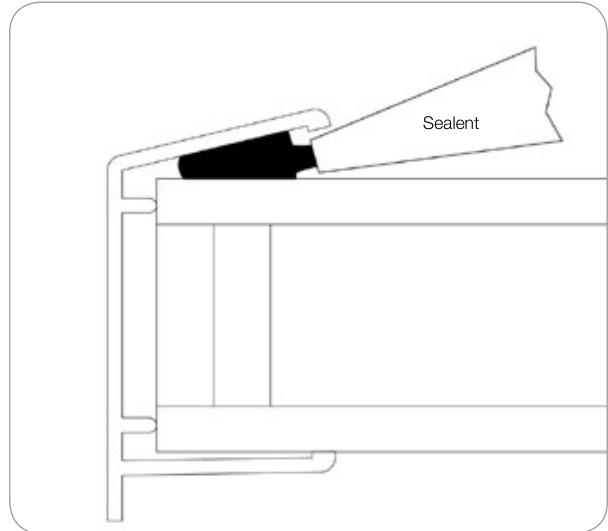
- 10** If not already fitted, clip in the eaves beam seals between the rafters and hips using a nylon mallet. Check the rafters are all square to the ring beam and ridge, and then tighten all roof fixing nuts.



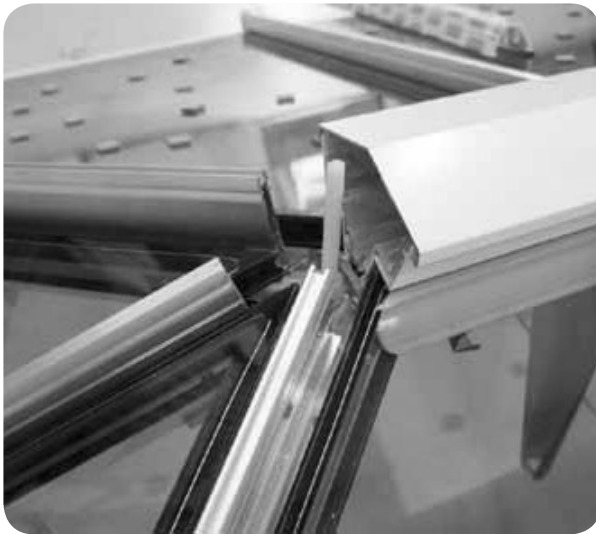
- 11** Locate the nylon bar through the spider and lock off using nuts and washers either side of the spider. The nylon bar should sit 5mm below the crest of the ridge profile.



- 12** Position the spider bottom cap and fix using the decorative boss onto nylon threaded bar. Note the nylon bar may require trimming down in length.



- 13** Fit the glazing end closures to the glass and run a bead of sealant between the profile and top pane of glass as shown above. **ONLY** use a suitable sealant with self cleaning glass. Soudal SMX 506 is recommended.



- 14** If not already fitted, fit the glazing bar end caps and glazing stops. Then peel back two inches of eaves beam seal tape film and fold to the outside. Insert glazing unit ensuring equal coverage and ensuring the glass is resting onto the glazing stops.



- 15** Fit the foam bung and clamp plate and tighten M10 nut until the foam is firmly pressed down onto glazing.



16 Fit the rafter and hip top caps using a nylon mallet, then ensuring the glass is positioned correctly, peel the remaining eaves beam seal tape film away and press glazing down to ensure contact with eaves tape.



17 Seal around perimeter of the foam bung where it intersects the ridge glazing seal, glass and glazing bar top caps.



18 Seal around rafter top caps to ridge glazing trim.



19 Seal the rafter top cap to hip top cap from the gasket intersection to foam bung.



- 20** Using a suitable high grab adhesive sealant, run a small bead on the perimeter edges and a larger bead further inboard as shown. Recommended sealant is Soudal Fix All Super Clear.

NOTE: Do not run the sealant to the bottom edge around the hip/rafter area to ensure the sealant does not touch the glass. Always ensure hands are cleaned as to not contaminate self cleaning glass.



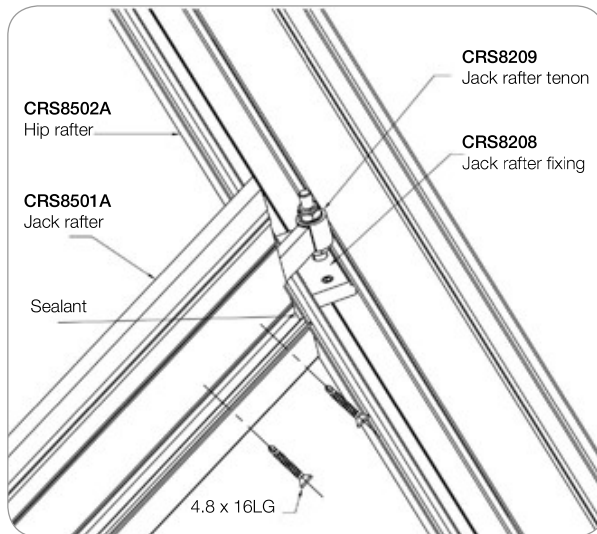
- 21** Splay the top cap and lower onto the ridge whilst checking the capping is positioned correctly over the rafter and hip top caps. The capping returns should clip under the ridge profile when positioned correctly.



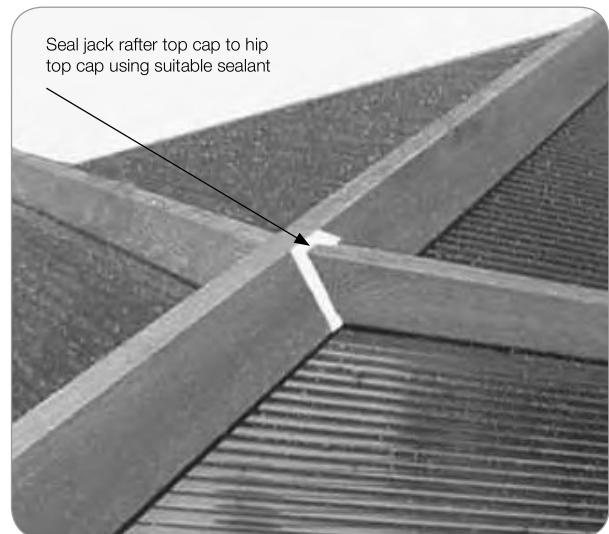
- 22** Ensure the capping is seated down correctly and remove any excess sealant from all edges.

3. Additional Information

Jack rafter installation



- 1 Locate the jack rafter tenon onto the jack rafter fixing bolt and adjust the lower nut to align gaskets then tighten the top nut. Seal the jack rafter internally to the hip.



- 2 Seal jack top capping joints. ONLY use suitable sealant with self cleaning glass.



SMARTGLASS™

Self-cleaning glass

***Congratulations on choosing SMARTGLASS.
Please follow these maintenance instructions
carefully for best results.***

Applications

SMARTGLASS has been specially designed to remain cleaner for longer than conventional glass. A transparent coating on the external surface of the glass harnesses the power of ultra-violet rays and rain (or water) to break down dirt and grime then wash it clean away.

The coating is totally integrated into the surface of the glass and is highly durable. However, as with all coated glass a certain level of care must be exercised when handling and maintaining SMARTGLASS.

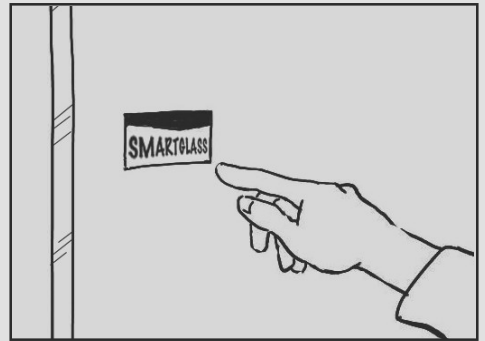
Guidelines for initial contact with SMARTGLASS

- **Labels**
If the SMARTGLASS label is still attached to the glass carefully peel it off. Care must be exercised when removing the label from the glass to ensure that the special coating is not damaged. Do not use a razor, scraper or wire-wool to detach the label.
- **Cleaning for the first time**
Wait at least a week before cleaning the product for the first time to ensure all sealants used in its installation are fully set. Start with a rinse or hose-down with clean water and continue, when necessary, with a normal maintenance routine (see reverse).
- **Self-cleaning function**
During the week after initial installation and clean-down the self-cleaning property of SMARTGLASS will be progressively activated, triggered by exposure to UV light. The length of time required to activate the coating by UV rays can vary depending on the season and the orientation of the glass, but is normally within a week. When the glass is wet a small border of water droplets may appear around the perimeter surface of the glass. This is perfectly normal.

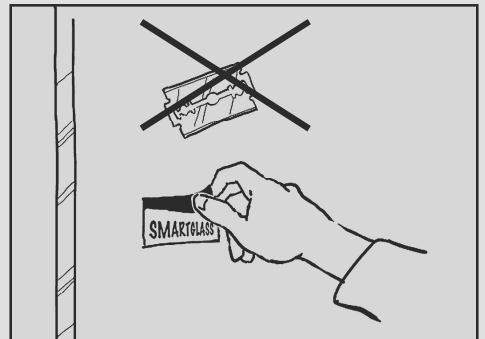
Routine maintenance

SMARTGLASS has a special property which means that the glass stays cleaner for longer than normal glass. The more exposure the product has to both sun and rain, the cleaner it will stay, for longer. However, a number of other factors affect the time it takes for a mark to be naturally removed, such as the level of ambient pollution, atmospheric conditions (e.g. long periods without rain) etc.

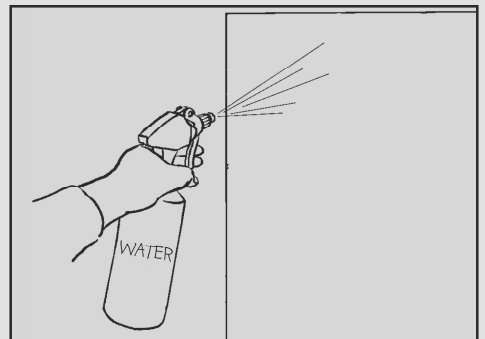
Document B1



SMARTGLASS will arrive with a label on the coated surface.



Carefully peel off the special SMARTGLASS label. Do not use metal tools or abrasives to remove it.



When cleaning for the first time, wait at least one week for the coating to activate then start by simply rinsing with water or a mild window cleaner.

SMARTGLASS is not a '100% maintenance-free' product.

Should the glass require occasional cleaning carefully follow these instructions:

● **Cleaning equipment required**

- A soft, clean lint-free cloth or chamois leather
- or a clean, soft non-abrasive sponge
- or a clean, non-metal window squeegee

All equipment must be kept clean. This is to prevent any dirt or abrasive particles transferring from the equipment back onto the glass which may scratch or damage the coating.

● **Cleaning products**

- Clean water will normally suffice. Standard, mild glass-cleaning products such as Stardrops and Fairy Liquid can also be used (visit www.selfcleaningglass.com to view our list of recommended products).
- 'Soft' water is best for cleaning glass. In hard-water areas a small amount of washing-up liquid can be used to soften water.
- For the removal of stubborn marks white vinegar can be used. Always ensure that the vinegar does not come into contact with the frame and that it is washed off the glass after application.
- Vinegar is not to be used as a regular cleaning method.

● **Important**

- Do not use any glass treatment products containing silicones or abrasive particles.
- Do not use any commercial cleaning products which are intended specifically for cleaning elements other than glass.
- Do not use chemical products: soda, bleach, washing powder, white spirit etc.
- Avoid contact with all sharp or abrasive objects including jewellery, buckles, tape measures, razor blades, Stanley knives, scouring pads, steel wool, sandpaper etc.
- Never attempt to clean off a specific mark on the surface of SMARTGLASS without applying water first.

Protection during building/maintenance works

If any other works are taking place in the vicinity of SMARTGLASS then protect with a clean plastic sheet to prevent any splashes or staining from aggressive compounds (paint, varnish, glue, sealant, cement, plaster, mortar, etc). This will also protect the product from abrasive or hot particles (grinding or welding sparks, etc).

Important!

Please retain these instructions for future reference.

These instructions must be made known to anyone coming into contact with SMARTGLASS glass e.g. your window cleaner.

SMARTGLASS™ Self-cleaning glass

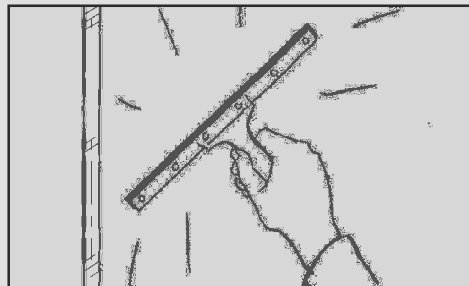


Clayton Glass
Unit 8, Tanfield Lea Industrial Estate,
Tanfield Lea
Stanley
Co Durham
DH9 9YA

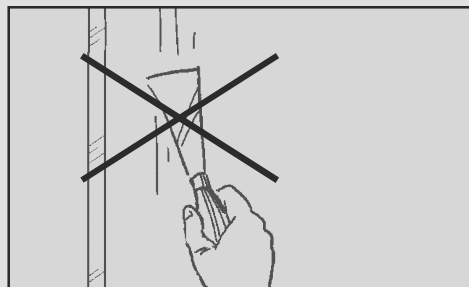
www.claytonglass.co.uk



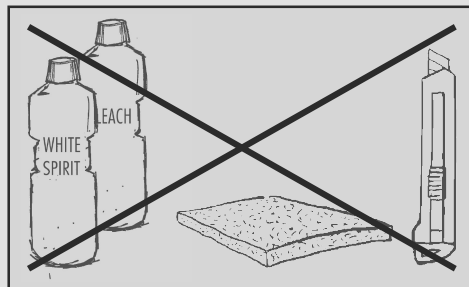
As and when cleaning is required, the use of a soft, clean sponge or cloth is recommended.



Alternatively a clean, non-metal window squeegee can be used.



Avoid all contact between the glass and metal or abrasive objects.



Avoid all use of aggressive or chemical compounds and abrasive equipment/tools.

Distributor