

Northern Express Glass Ltd.

SMART GLASS RANGE



BS EN 1279 CMS 3044
BS EN 12150 CMS 3032 T

Issue 3
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INSTALLATION GUIDELINES

Installation and Maintenance Guidelines for window fabricators and Installers

The **Smart Glass Range** 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 UV rays and rain 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, certain guidelines must be followed to ensure correct installation and proper maintenance. Carefully follow the instructions below for best results.

Receipt of Glass

The **Smart Glass Range** is delivered with a special label affixed to the coated surface. This label must remain in place until delivered to site, then carefully removed at first clean down.

Storage

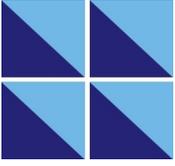
- As with all coated glasses, the **Smart Glass Range** must be stored in a clean, dry, ventilated area, protected from any extreme variations in temperature and humidity.
- Keep the product away from confined areas where there is an obvious presence of silicone or sealant vapours.

Handling / Equipment

- Avoid all contact with sharp, metal or abrasive objects which may scratch the coating. (e.g. belt buckles, Stanley knives, razors.)
- Avoid contamination from hands which have been in direct contact with silicone.
- Use clean, dry, soft safety gloves. Avoid those with rubber or silicone grips.
- Hand held or machine suckers must be in a good condition, clean and completely silicone free. In order to ensure their cleanliness, protective covers are available.

Assembly Into Frame

- Full directional glazing instructions and surface positioning can be found on glazing label which will be present on all smart glass units.
- Avoid all contact with linseed oil and silicones during assembly and installation.
- (Including setting blocks, grease or silicone sealants, adhesives, glues, lubricants).
- Glazing tapes used in timber frames must not be capped with silicone.



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Gaskets

- The use of pre-formed or dry gaskets (such as EPDM gaskets) is recommended.
- Limit contact between the gasket and the glass to the precise area necessary.
- Glazing gaskets must not be lubricated with silicone oil.
(guidelines for removing silicone oils are available)

Sealants

- Where possible avoid all use of polymerisable mastics as they release a number of oils which will diminish the efficiency of the **Smart Glass Range** especially around the edges.
- Avoid all use of linseed oil mastics or putties.

On Site Installation

- Protection—If any other works are taking place in the vicinity then protect with a clean 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).
- Sealants—The use of an MS Polymer based sealant is recommended.
- Lead Flashing—Where lead flashing is adjacent to the glass, staining can occur from carbonate run off. This should be minimised by using a suitable patination product whilst the lead flashing is new.
- First Clean Down—Where polymerisable sealants have been used wait until the full polymerisation has occurred before cleaning the Smart Glass coating. After carefully peeling off the special label, start with a rinse down of the coated face and complete with normal maintenance routine.
- Self Cleaning Function—In the days after the installation and the first clean down, the special coating will be progressively activated by UV rays from the sun. Water will sheet off the surface of the glass without forming droplets. This initial UV generation of the coating can vary according to the season and the orientation of the glazing.

Routine Maintenance

Please see the routine maintenance section on the maintenance leaflet.

* 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 all contact with all sharp abrasive objects including jewellery, buckles, tape measures, razor blades, Stanley knives, scouring pads, steel wools, sandpaper etc.