



# Pilkington Painted Glass

## Handling and Processing Guidelines

### 1. Product description

Pilkington Painted Glass is a decorative glass product designed for glazing against a wall or similar rigid, fixed building structure. A high quality paint coating is applied to the rear of a base glass substrate to give the glass an opaque appearance.

### 2. Pilkington Painted Glass – Jet Black

Manufactured on Pilkington **Optifloat™** Clear in LES packs in 4 mm thickness.

- 3210×2250
- 3210×2550

### Pilkington Painted Glass – Ice White

Manufactured on Pilkington **Optiwhite™**, in LES and Jumbo packs in 4 mm and 6 mm thickness.

- 3210×2250 (LES)
- 3210×2550 (LES)
- 3210×6000 (Jumbo)

Both Pilkington Painted Glass, Jet Black and Pilkington Painted Glass, Ice White are currently only available in annealed form (non-safety).

### 3. Delivery and storage

Pilkington Painted Glass is normally arranged on stillages so that the painted surface of each sheet faces outwards. All sheets are separated with an interleaving powder.

Pilkington Painted Glass must be unloaded, stacked upright and fully supported in a safe manner. It should be stood on edge strips of wood, felt or other relatively soft material.

We recommend that Pilkington Painted Glass is stored in dry and well ventilated conditions, and not subjected to large temperature fluctuations, which may cause condensation. Pilkington Painted Glass should never be stored outside. We also do not recommend that Pilkington Painted Glass is exposed to heat, aggressive materials or agents such as solvent vapours, chemicals, acids, fuel, etc.

Glass that has been stored in favourable storage conditions, in its original packing, should remain in good condition for twelve months.

For longer storage periods, glass should be inspected and re-packed accordingly.

Pilkington Painted Glass is generally delivered in pack quantities and in a manner consistent with that of clear glass of similar thickness and size.

### 4. Handling

Great care should be taken to ensure the glass is properly fastened and secured to prevent it falling and moving so as to avoid any damage to the surface. Glass should always be handled by staff that have been properly trained and equipped with appropriate handling and safety equipment.

Individual sheets can be moved using automatic equipment capable of lifting plates with clean suction cups on either the glass or coated surface. A suitable material may be placed between the suckers and the glass to ensure cleanliness.

Pilkington Painted Glass must not be toughened, folio laminated, used as a pane in an Insulating Glass Unit (IGU) or positioned where it is subject to excess thermal stress.

Pilkington Painted Glass is intended for use in internal, non-safety glass locations in the form that we supply it in. The glass may be further processed by others to change the break characteristics. Any such processing is the responsibility of the processor including any additional impact test certification.

## 5. Cutting

Pilkington Painted Glass is a monolithic product and as such can be shaped using normal cutting techniques. We recommend cutting and transfer tables are regularly cleaned and covered with felt in order to avoid scratches caused by small shards of glass that can damage the glass surface or backing. Pilkington Painted Glass should be scored on the glass side and not the rear side. Cutting tools should be used on the glass surface with moderate pressure to prevent the formation of shards. Only a small amount of neutral cutting oil should be used and any excess immediately removed. Care must be taken if straight edges, metal tape measures, cutting bars or cutting sticks are placed on the glass to avoid scratches.

## 6. Washing

We recommend Pilkington Painted Glass is washed using warm, demineralised, neutral pH water. Additives such as detergents should not be used in the water. After cleaning, Pilkington Painted Glass should be dried immediately, especially around the edges. Under no circumstances should the product be stacked whilst still wet.

## 7. Processing – edge grinding, polishing mitring, bevelling and drilling (BS 952-2)

When edge working, the speed of the machine should be adjusted according to the number of grinding wheels fitted and the thickness of the glass. Always ensure the glass edges are clean cut. We do not recommend the use of overly complex shaped grinding wheels and grinding to an edge mitre bevel of less than 45°. In order to reduce the opportunity for corrosion, the quality of finish on the coated side should be smooth and free of chips. Pilkington Painted Glass may also be drilled. Different edge processing techniques may be required in various applications. We advise to drill from the painted side and not the glass side, however, we recommend to always test a small section beforehand.



We recommend the use of non-aggressive coolant oils (neutral pH) to prevent damage to the painted surface. The cooling water circuit should be cleaned regularly to avoid the circulation of glass particles.

After processing, Pilkington Painted Glass should be cleaned immediately with demineralised water. Dry glass should be stacked using spacers to protect the glass and aid in ventilation.

### **8. Packing**

When packing, carefully place the panes vertically on frames, stillages or cases so as to avoid any scratches when stacking. We recommend the use of an interleaving powder and soft spacer, such as wood, powder or paper, is placed between the glass and the use of organic products are avoided as they could streak the backing. When plastic wrapping, perforated plastic films are preferred to avoid trapping moisture.

Applied films for packing are intended for short duration use and should not be left on for extended storage. It is essential that, at all stages of packing, the glass remains completely dry. Pilkington delivery packaging is not intended for onward use. Customers must ensure that any packaging reused is fit for purpose.

### **9. Recycling**

Waste painted glass is a valuable resource and can be infinitely recycled. It should be segregated from clear cullet and disposed of as mixed cullet.





# Pilkington Painted Glass

## Installation Guide

### 1. Introduction

Pilkington Painted Glass is an annealed glass product with a special paint coating applied to one surface.

Great care should be taken when fixing or mounting Pilkington Painted Glass. Contact between the product and hard materials such as metal, porcelain and other breakable materials should be avoided at all times. Bushes should be used on drilled glass to avoid contact between the glass fixings and care should be taken to avoid over tightening.

We recommend that for large panes, professional glaziers should be employed to install or fit the glass. For smaller 'tile size' pieces fitting may be undertaken by tilers, provided the advice within this document is observed at all times.

It is the sole responsibility of the installer (glazier or tiler) to ensure compatibility of any adhesives or sealants when used in conjunction with Pilkington Painted Glass. Pilkington Building Products UK, a member of the NSG Group, do not manufacture sealants and cannot confirm the effectiveness of any particular products. Where the manufacturer of the sealant is unable to confirm compatibility, a test should be undertaken by the installation company to ensure the long term compatibility and suitability of any materials. We have, however, tested various adhesives suitable for use with Pilkington Painted Glass. For further, up to date details please refer to our website [www.pilkington.co.uk](http://www.pilkington.co.uk).

Pilkington Painted Glass is supplied with an as cut edge. Edges should always be ground or polished unless the glass is being fully framed.

### 2. Installation areas

Pilkington Painted Glass is for internal use only. Please note that we do not provide assurance against deterioration of Pilkington Painted Glass in areas of extreme humidity such as steam rooms, swimming pools and unventilated gyms etc.

Pilkington Painted Glass is designed to be fixed onto walls or other rigid fixed building elements such as pillars or posts, etc. where it is appropriate to do so. It is not intended to be used in conventional single or double glazing window apertures or screens, etc. or as a Spandrel panel.

Since Pilkington Painted Glass is an annealed glass product it is not suitable for certain locations such as overhead glazing or in areas where impact resistant glass classified to BS EN 12600 is required.

### 2.1 Important notes regarding installation areas

Pilkington Painted Glass is an annealed glass product and as such is susceptible to thermal breakage if exposed to a differential of heat. Any potential for an increase in localised heating should be avoided. If broken, the glass will break like annealed glass (i.e. not safely) and the consequences of this should be fully considered at the design and specification stage.

### 2.2 Kitchen/cooking areas

For splashbacks typically behind cookers or hobs or up stands, it is vital that Pilkington Painted Glass is protected from impact from any hard implements and also from sources that could induce localised heating.

### 3. Installation

Pilkington Painted Glass should be installed in compliance with current national building regulations and safety standards.

If fitting using a frame or clip, we recommend the insertion of non metal spacers between the frame or clip and the glass. If bonding, it is the installer's responsibility to ensure that any adhesive/fixing is compatible with the paint coated surface and does not show through when viewed from the uncoated side. If the adhesive supplier or manufacturer cannot confirm the suitability of their products, we advise that a test should be undertaken to verify its long-term compatibility.

We recommend that the adhesive is applied in vertical stripes and a small (max 25 mm) gap is created so that air can circulate between the back of the glass and the surface to which it is being applied. Pressure should be applied evenly to the glass surface and supported on blocks until the adhesive has dried. Adhesive tapes should also be applied in vertical stripes.

During installation and use, we recommend Pilkington Painted Glass is only fitted to flat surfaces and bending the glass out of plane should be avoided.

We recommend that the wall surface should be flat and in cases where it is not it should be smoothed out with a suitable material to ensure optimal adhesion. Pilkington Painted Glass should not be applied to walls that are not dry or to walls that have not fully dried out.

Pilkington Painted Glass may be used in humid areas such as bathrooms and kitchens but should never be immersed in water. Pilkington Painted Glass should be installed in such a way to protect the painted surface and prevent water from coming into contact with the painted surface or edges. Ventilation should also be incorporated to reduce the ability for condensation to collect on the paint surface or edges. Pilkington Painted Glass should not be butted up to other surfaces where there is a risk of movement. We recommend that gaps should be left and filled with a flexible sealant. Where possible, the perimeter of the glass should have one unsealed edge.

### **3.1 Cut outs**

Where there is a requirement to incorporate a special cut-out to accommodate light switches, plug sockets and pipes etc. we advise a 10 mm gap between the edge of the glass and the item.

## **4. Impact safety requirement**

Pilkington Painted Glass in annealed form is not suitable for areas where impact resistant glass is required.

BS 6262 – Part 4 2005, for England and Wales Part N, Scotland Part P and Northern Ireland Part V; of the building regulations should be consulted for requirements and exclusions.

## **5. Beveling/acid etching**

Pilkington Painted Glass may be bevelled on the glass (non-paint coated) surface.

Acid etching work may be undertaken to the (non-paint coated) surface of the glass and should only be carried out by a competent professional person. Care should be taken to avoid acid coming into contact with the paint coated surface as this will cause permanent damage.

All relevant Health and Safety advice should be followed and the use of Personal Protective Equipment is absolutely essential.

## **6. Cleaning**

Pilkington Painted Glass should be cleaned with clean water and a soft cloth. A mild detergent may be added or a proprietary glass cleaner providing it does not contain suspended solids. We do not recommend the use of abrasives or alkaline solutions, squeegees, blades or scrapers. Pilkington Painted Glass may be dried with a soft cloth after rinsing.



This publication provides only a general description of the products. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of these products is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Optifloat" and "Optiwhite" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



CE marking confirms that a product complies with its relevant harmonised European Norm.  
The CE marking label for each product, including declared values, can be found at [www.pilkington.com/CE](http://www.pilkington.com/CE)



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