Pilkington Planar™ System Information

Pilkington Planar™ Laminated Insulating Glass Units (IGUs)

Pilkington Planar™ Integral Laminated IGUs

Performance of typical combinations with clear interlayer

<table>
<thead>
<tr>
<th>Glass Type</th>
<th>Colour</th>
<th>6 mm</th>
<th>8 mm</th>
<th>10 mm</th>
<th>12 mm</th>
<th>15 mm</th>
<th>19 mm</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Pilkington Optifloat™</td>
<td>Clear</td>
<td>☑</td>
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<tr>
<td>Pilkington Optifloat™</td>
<td>Grey</td>
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<tr>
<td>Pilkington Optifloat™</td>
<td>Bronze</td>
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<tr>
<td>Pilkington Optifloat™</td>
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<td>Pilkington Optiwhite™</td>
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<tr>
<td>Pilkington Arctic Blue™</td>
<td>Blue</td>
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<tr>
<td>Pilkington K Glass™</td>
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<tr>
<td>Pilkington Planar™ Sun</td>
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<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>Subject to minimum quantity. Max. size 2400 x 4500 mm</td>
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<td>Pilkington Screen Printed Glass</td>
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<td>Maximum screened area 2400 x 4500 mm (see enclosed data sheet for further details)</td>
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<td>Pilkington Activ™ Clear</td>
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*Please note that these are a selection of Solar Control glasses within the range and the performance data supplied is indicative only and can vary subject to the substrate used. Technical data has been calculated according to BS EN 410 and BS EN 673. The above table has been updated to take into account the declared values of radiation and thermal properties required for CE Marking. R_w Value is indicative for PVB interlayer product only and will be subject to minor variations dependent upon the size of the glass panels and the number of fittings required.
Notes
Pilkington Planar® Laminated IGUs are available with a selection of interlayers including PVB and DuPont™ SentryGlas®.
Silicone perimeter seals must be compatible with Pilkington Laminated Safety Glass.
A wide range of glass combinations and a choice of clear, translucent and coloured interlayers are available with laminated glasses. Please refer to Pilkington Architectural for advice.
In line with regulations applicable in many European countries, Pilkington Architectural recommend the use of laminated glass in overhead or sloping overhead glazing.

Specification – Pilkington Planar® Laminated IGUs

Composition
Pilkington Planar® Laminated IGUs are manufactured from an outer pane of Pilkington Toughened and Heat Soaked Glass and one laminated inner glass comprising typically of 6 mm or 8 mm glasses. The use of heat strengthened or toughened glass in the laminate is dependent on the exact interlayer specification.
Pilkington Planar® Laminated IGUs
Air space: 16 mm ±1 mm
Depth of silicone seal: Minimum 4 mm
Aluminium spacer depth: 7 mm
Sight line of unit edge seal: 12 mm min. 20 mm max.
Spacer colour: Black or Natural
Laminated interlayer: 1.52 mm or 2.28 mm
There may be a step on each side up to 3 mm
Overall thickness: ±2 mm tolerance

Glass size – rectangles
Maximum: 2400 x 4500 mm 0 ± 4.5 mm
(Larger sizes upon request)
Minimum: 300 x 500 mm 0 ± 4.5 mm
Aspect ratio: 14:1 Maximum for larger sizes
Overall thickness: 54 mm thickness
Maximum weight: 600 kg

Shape capability
Rectangles and simple shapes. All tolerances will vary depending on the complexity of shape.

Edge condition
Smooth ground edges giving a flat profile with small ground arris. Shells or chips at edges will be ground out prior to toughening and do not constitute reason for rejection. Corners may be dubbed. Some variation in edgework may be discernible on exposed edges where different machines and/or hand forming is a requirement for manufacture.
Such variations shall be kept to a minimum. Where the detail of a structure is such that the double glazing edge sealant is fully exposed, minor undulations in the edge seal may be discernible particularly near corners of the unit. The Pilkington Planar® Sun Range of coatings will be edge deleted in the area of the unit edge seal to ensure maximum unit durability, depending on product type, orientation and light conditions the edge deleted zone may be visible to the naked eye.

Hole drilling – rectangles
Diameter: 34 mm ±1 mm
Diameter: 19 mm ±1 mm Countersunk
Position: Normally 60 mm from glass edge at corners and sometimes along edge. Other configurations subject to confirmation.
Positional Tolerance: ±2 mm from one datum point
Number of holes: Up to 10

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, code 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.

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Pilkington Architectural
Prescot Road St Helens WA10 3TT United Kingdom
Telephone 01744 692000 Fax 01744 692880
pilkington@respond.uk.com
www.pilkington.co.uk/planar