



**BRITISH
GLASS**

BRITISH GLASS IS A TRADING STYLE OF BG GLASS LTD

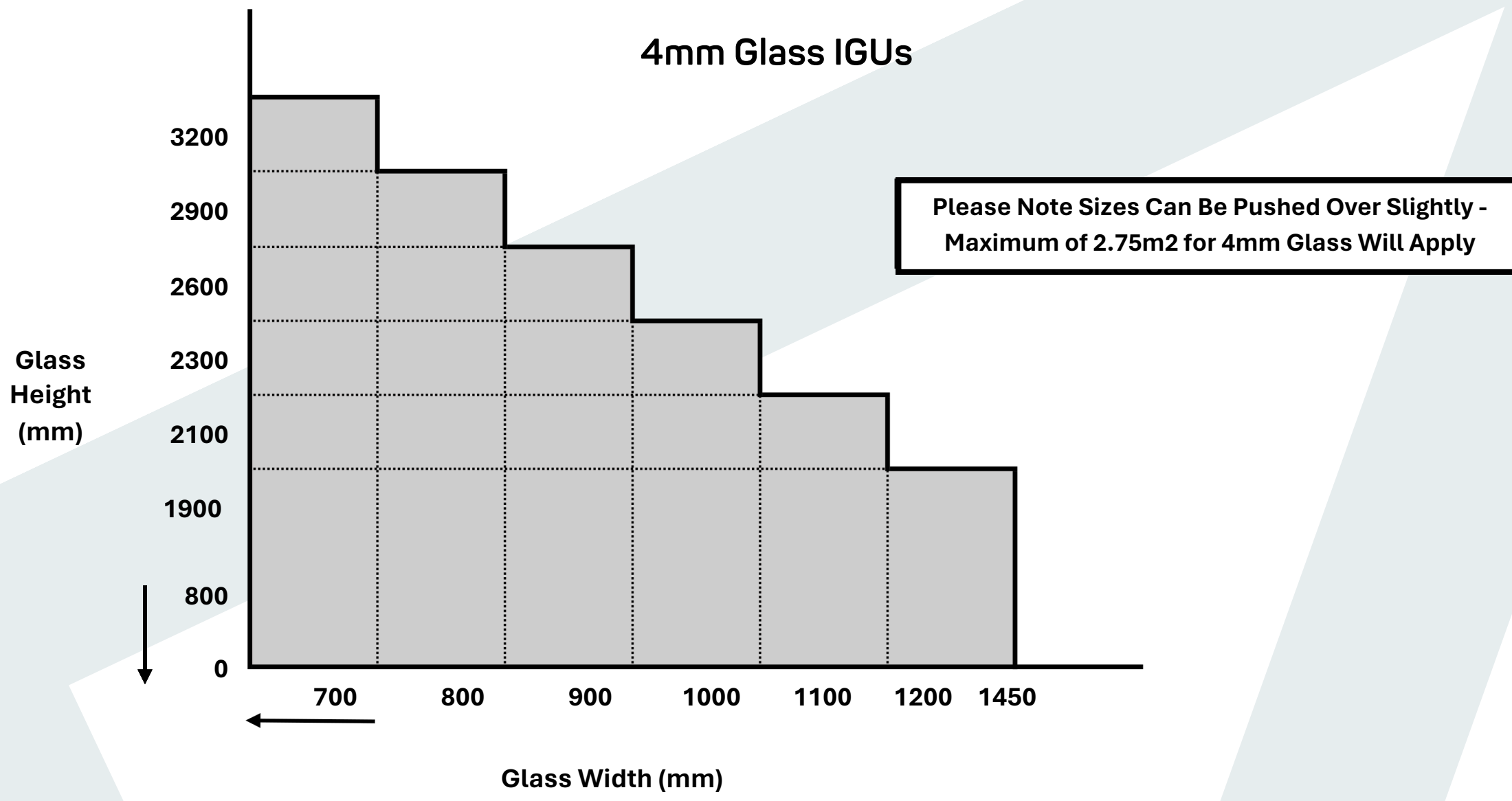
TECHNICAL TOLERANCES GUIDE

UNITS 5-9 WILLEN FIELD ROAD, LONDON, NW10 7BQ

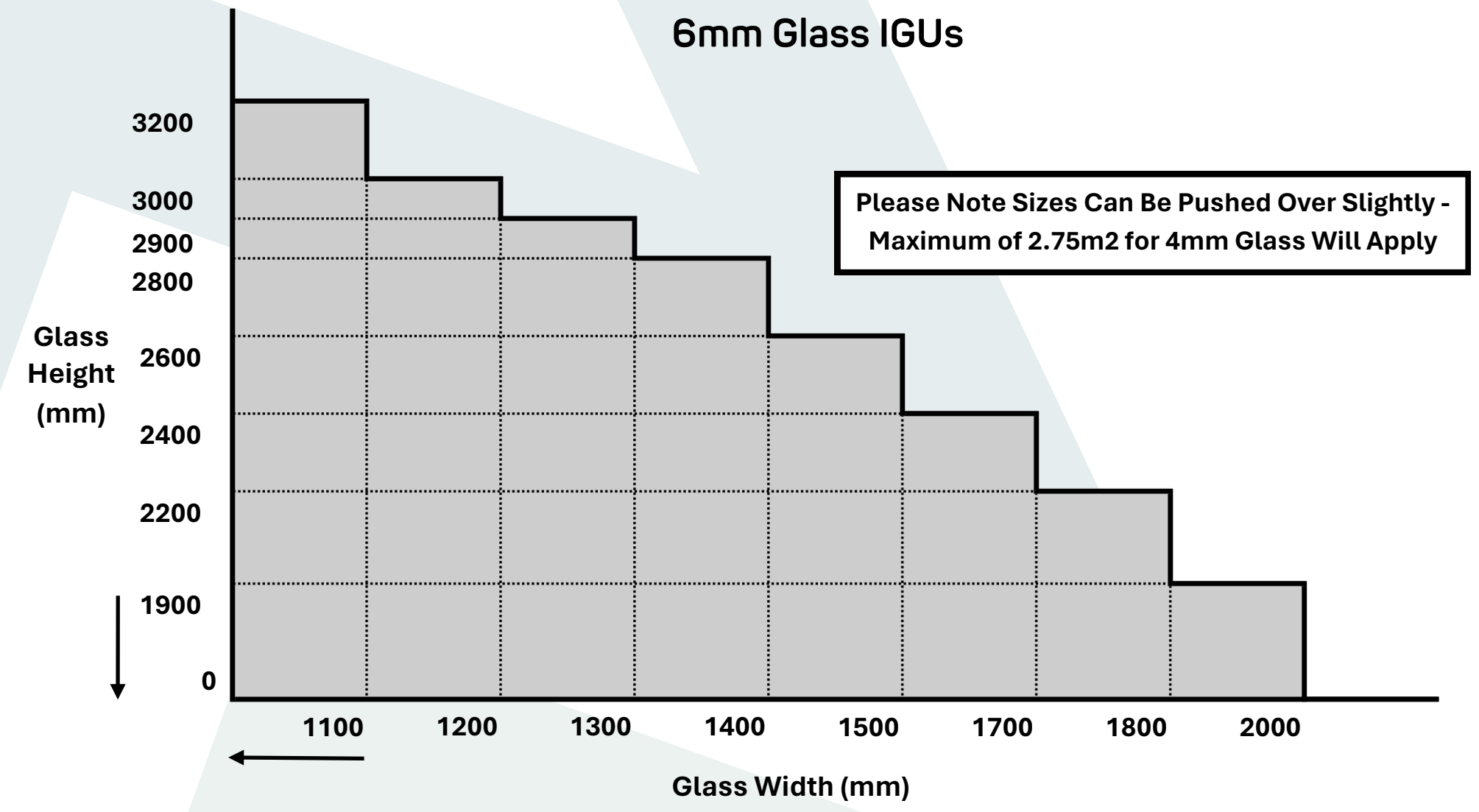
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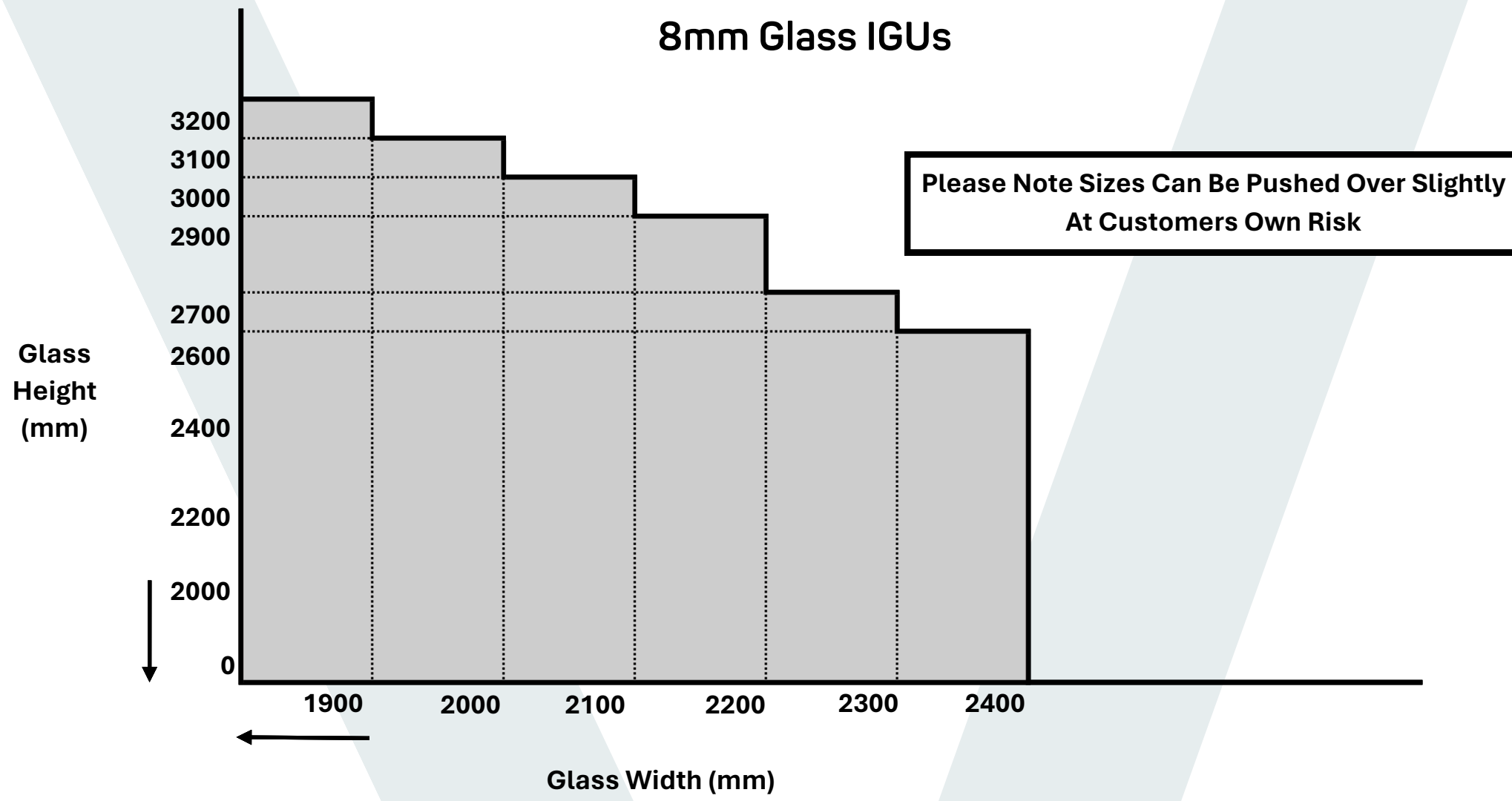
4mm Glass IGUs



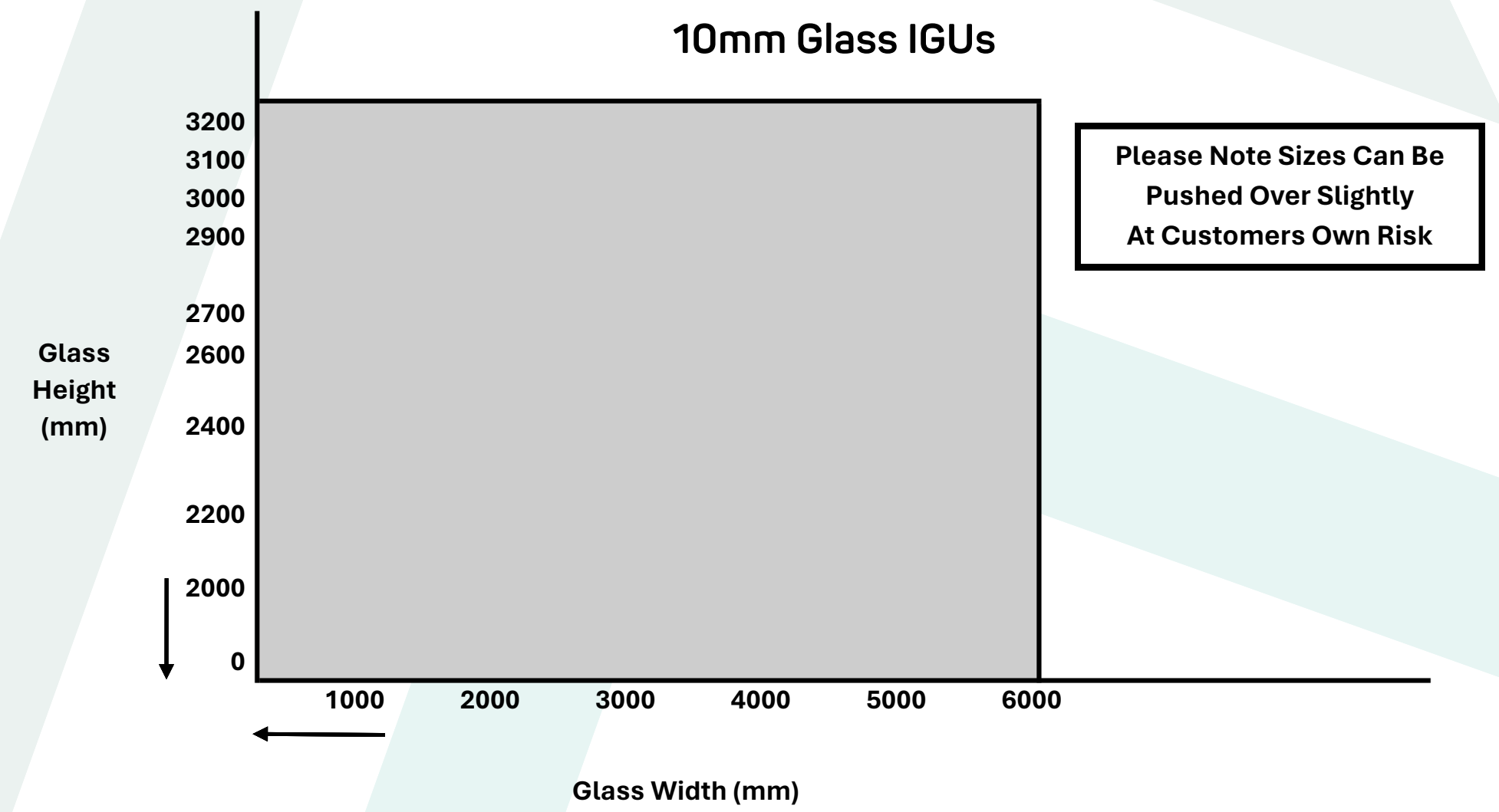
6mm Glass IGUs



8mm Glass IGUs



10mm Glass IGUs



Holes

The diameter of holes must be at least equal to the thickness of the glass. The distance from the edge of the glass to the edge of the hole must be no less than 2 times the thickness of the glass.

The distance from the corner of the panel to the edge of the hole must be no less than 4 times the thickness of the glass.

The tolerance for holes will range between ±1mm and ±3mm, depending on the thickness of the glass.

Corners

When glass is processed with two polished edges, corners will be sharp; this sharpness can be softened by applying a further process of hand dubbing (not polishing) or radiusing corners.

This should be specified at the order stage; if no request is made, corners will be either sharp or dubbed depending on the processes.

Drawing/Templates

For any glass that is shaped, a CAD/DXF file or template will be required. Any templates supplied should be exact finished sizes, with any holes or cut-outs in the correct position.

All templates sent to BG Glass should be clearly labelled with the customer's name and contact information, along with a reference number if applicable. Where possible, BG Glass Ltd will return templates with the finished product.

Cut-Outs

If glass has an internal cut-out, a minimum radius will be applied to that corner; this will be either the glass thickness for a ground finish or 25mm for a polished finish.

Please specify which you require at the order stage.

Polishing

Our polishing can be done on either a CNC machine or a straight line edger; there is a marginal difference in finish, but both are of high standard and will be done at the discretion of our production team. Please advise if you require a specific finish.

Toughening Stamps

All toughened glass supplied by BG Glass will have a Edge Stamped (Furniture Marked) unless otherwise specified. Face stamps (Face kitemarks) are available on request.

Please specify which you require at the order stage

Painted Glass

Standard clear glass has a slight green tint, which can affect the colour of the paint. BG Glass recommends using low iron glass for this product. Please provide RAL numbers, Dulux, or Pantone codes.

All colours are supplied as 'closest possible match'; the colour match is not guaranteed.

UV Bonding/Glass Spacers

BG Glass offers UV bonding with no design obligation; it is the customer's responsibility to ensure structural suitability. please note there will only be a 2 year warranty offered on UV Bonded Glass Spacers

Vanceva

Vanceva laminate is supplied according to customer code; when ordering, please provide the Vanceva code. BG Glass can offer samples of Vanceva on a chargeable basis.

Laminate

Laminated glass will be either CIP Resin, PVB Interlayer or EVA Interlayer at our discretion unless otherwise specified at the order.

Edge slip

In toughened laminate, edge slip can occur; in these cases, up to 3mm will be acceptable

Low-e Glass

Low-e glass coatings can be from any major manufacturers glass stock and can be either hard or soft coated at our discretion unless otherwise specified at the order.

Double Glazed Units/Triple Glazed Units

Unless otherwise specified, our units are manufactured with an warm edge spacer bar.

The colour of the spacer must be supplied upon order; if not specified, a black bar will be used.

Our units are sealed with Dow Corning 3363 black silicone; the compatibility of any sealant for installation should be verified.

Units have a sight line of 12mm; this dimension and the straightness may vary as our units are produced by hand.

annealed double-glazed units should never be glazed under pressure; if in doubt, please contact the team.

BG Glass Ltd offers a *5-year warranty* on all Double/Triple Glazed Units

BG Glass Ltd is fully compliant with the Construction Product Regulation 2011, EN 1279:5 Annex ZA, EN 12150-2 Annex ZA, and CE Marking. For further information, please visit our website at www.british.glass

Deliveries

Where possible, deliveries will be made packed loose on BG Glass transport or packed on a wooden/Steel A-frame for forklift unload only. Where vehicle restrictions apply, and/or frames or special packing may be required, please state this at the quote stage to ensure correct ordering. Metal Stillages are the customers responsibility to return to us, we can collect from site but require you to supply labour to lift on to vehicle and reserve the right to charge a fee if we see fit.

Viewing Criteria & Guidelines

All glass supplied by BG Glass, including glass for floors, will be inspected to GGF guidelines, i.e., at right angles to the glass surface, in a vertical position, standing at a distance of no less than 3 meters away in natural daylight but not in direct sunlight and with no visible moisture on the surface of the inner or outer glass panes. The use of strong lamps and/or magnifying devices is not permitted. It is not permissible to find defects at close range as there are criteria to be visible from the given viewing distance. The conclusiveness of faults shall be judged by looking through the glass, not at.

Where quality issues are reported to BG Glass within the stated reporting time, we reserve the right to return goods for our inspection for rework or replacement. If the goods are not available to be returned, any replacement items will be supplied on a chargeable basis until the originals are inspected. In these circumstances, a full inspection report will be supplied. Any goods deemed acceptable upon inspection will remain chargeable.

The thermal toughening process produces areas of different stress in the cross-section of the glass. These areas of stress produce a birefringent effect in the glass, which is visible under polarized light.

Haze is an optical phenomenon that makes the glass look like it is covered in a very fine, uniform, layer of dust when viewed from an oblique angle or viewed under strong light incident on the glass at an oblique angle.

However, when incident sunlight is at an oblique angle and the view through the glass is of a shaded area, then the scattered light can become more visible, giving rise to the appearance of haze.

Most coated glasses are susceptible to the phenomenon of haze.

Viewing thermally toughened soda-lime safety glass under polarized light results in areas of stress showing up as cured zones. These zones are known as leopard spots. Polarized light occurs in normal daylight. The amount of polarized light depends on the weather and the angle of the sun. The birefringent effect is more noticeable either at a glancing angle or through polarized spectacles.

All of the above inherent issues with glass and coatings are not deemed as faults and more of part in parcel of glass manufacturing/products and will not constitute replacements

Nickel Sulphide Inclusions

In rare cases, toughened glass can break spontaneously, without any applied load, due to small nickel sulphide inclusions that may be present in all glass passes. These breakages can occur months or even years later. Carrying out heat soak testing on the glass can reduce the risk of spontaneous breakage; however, this is not 100% guaranteed.

Any spontaneous breakages are not covered by BG Glass warranty.