

# ROUGHOLDGLASS

HAND SILVERED ANTIQUED MIRROR

## TECHNICAL SPECIFICATIONS - Edges, Holes, Cutouts, Shapes & Templates

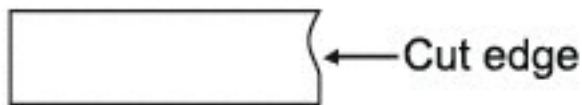
### EDGE FINISHES

#### FLAT POLISHED EDGE



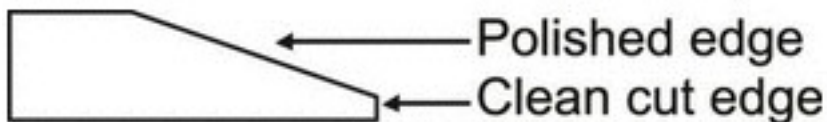
This is the standard machine polished finish to the edge and aris of the glass. Where panels are polished all round - this is referred to as PAR and is the most common edge finish for panels that butt up to one other. It's a neat edge with a small chamfer.

#### CLEAN CUT EDGE (AS CUT)



Edges are as the glass was cut and are sanded with a diamond pad prior to silvering to remove any dangerous sharp edges for ease of handling. There may be some very small chips or shells to these edges so these edges are usually only suitable where the edges will be concealed by beading or a frame.

#### BEVELLED EDGE

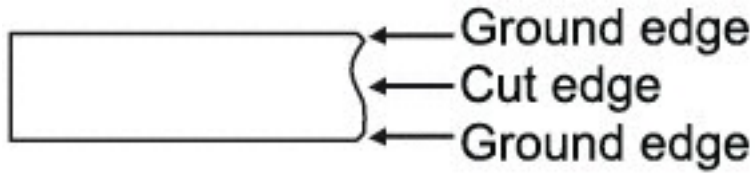


Straight line and shaped bevelling is done on automatic machines which produce a polished bevel on the face of the glass. The bevel width can be varied and is dependent on glass thickness. Bevelled glass has a clean cut edge as standard but flat polished edges are also an option. We can achieve a maximum bevel width of 15mm on 4mm thick glass & 50mm on 6mm thick glass. Please specify the bevel width you require.

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## ARRISSED EDGE



This edge treatment is produced on an automatic vertical arrisser which leaves a white arrissed edge. This is the minimum edgework for toughened glass.

## MITRED EDGE



A mitre is a machine edge finish that can be a smooth (ground) finish suitable for angled butt glazing or a polished edge if required. The nominated mitre is the angle of the glass edge remaining.

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## HOLES

Holes can be drilled in all thicknesses of glass. Almost any diameter hole is available. Holes can be countersunk to accommodate mechanical fixings.

## HOLES IN TOUGHENED GLASS

Holes must be drilled in glass before toughening.

Unusual hole configurations or large hole sizes should be referred for consideration before ordering.

### HOLE SIZE

- **Minimum Dimension:** Hole diameters cannot be less than the thickness of the glass.
- **Maximum Dimension:** The maximum dimension of any large circular or non-circular hole should not exceed half of the minimum width of the panel.

### EDGE FINISH

- Holes will normally have a ground finish • Holes can be countersunk at 45° with ground edges on request. • Countersunk depth should not exceed 75% of glass thickness.

### TOLERANCES

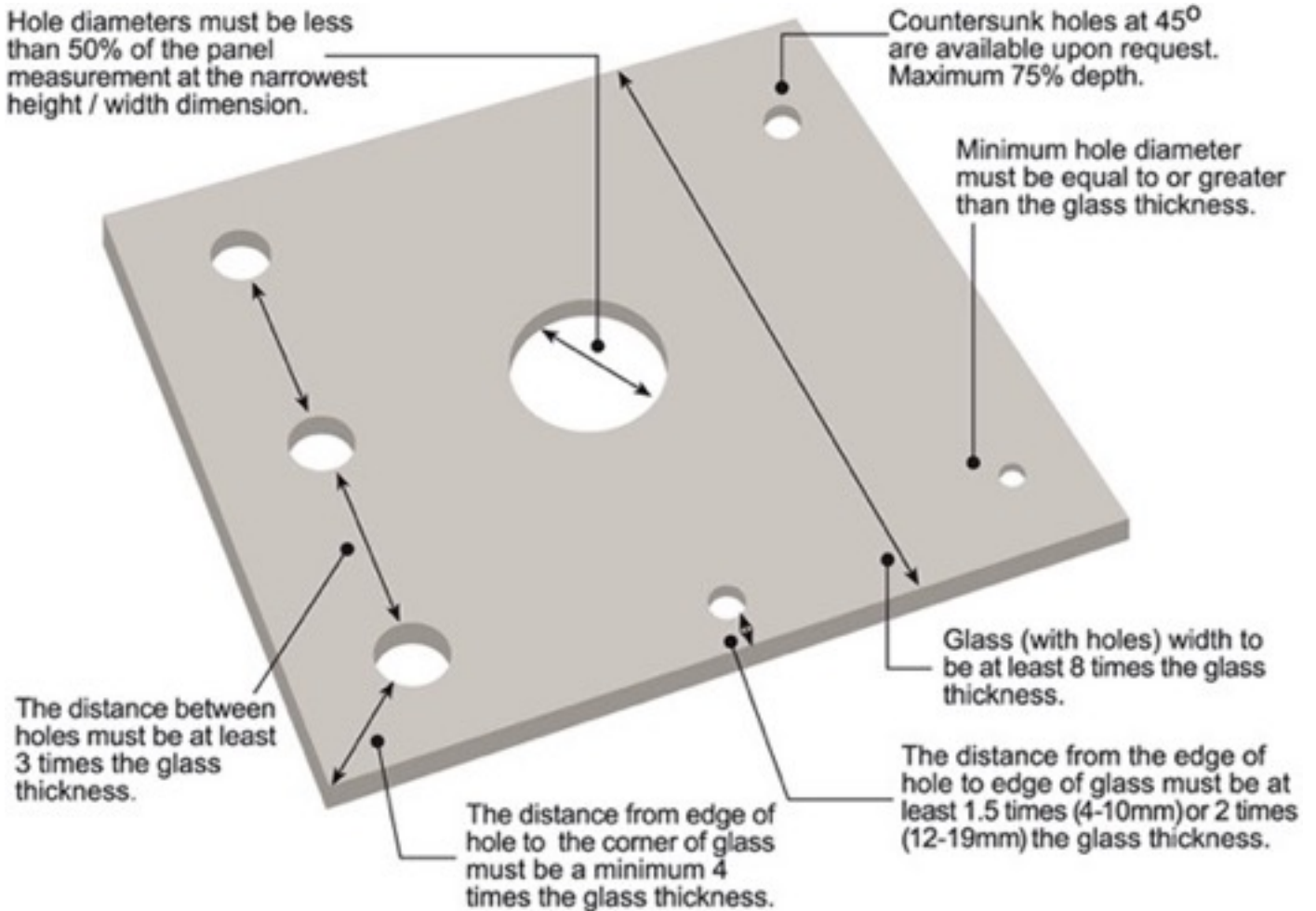
Hole Diameter(mm)	Up to70mm	Over70mm
Size Tolerance(mm)	+1, -0	+1, -1
Distance betweenhole centres	+1, - 1	+1, -1
Distance between glassedge & hole centre	+1, -1	+1, -1

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## POSITION OF HOLES FROM EDGE

- For holes up to 85mm diameter the distance between the edge of any hole and the edge of the glass must never be less than 1.5 times the thickness of the glass for glass up to 10mm thickness, and two times the thickness for 12 to 19mm thick panels.



## POSITION OF HOLES FROM CORNER

- The distance from the edge of hole to the corner of glass must be a minimum four times the glass thickness.

## SPACING OF HOLES

- The minimum distance between the edges of adjacent holes cannot be less than three times the glass thickness. Where there are more than four holes in a group the minimum distance cannot be less than six times the glass thickness.

## HOLES OTHER THAN CIRCULAR

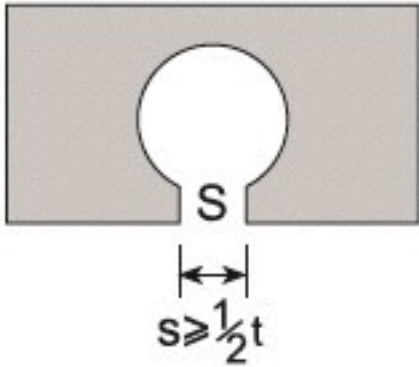
- All non-circular holes must have radius corners with the internal radius not less than the thickness of the glass.

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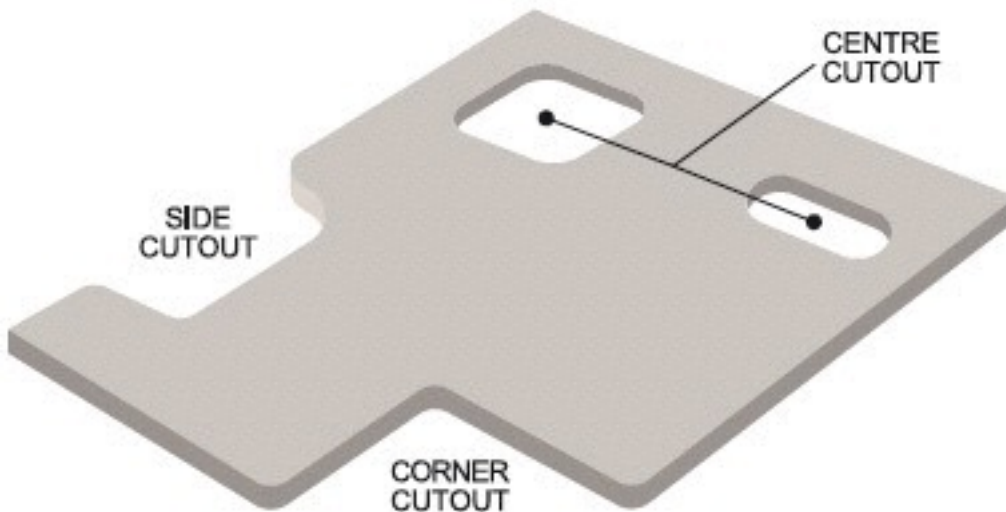
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## SLOTTED HOLES

The diameter of slotted holes must not be less than the thickness of the glass (t). The width of the slot (S) must be at least equal to half of the thickness of the glass (t).



## CUT OUTS



Cut outs are processed by Waterjet Cutter and supplied with flat smooth (ground) and arrissed edges. Cut outs are defined as having any one dimension greater than 200mm.

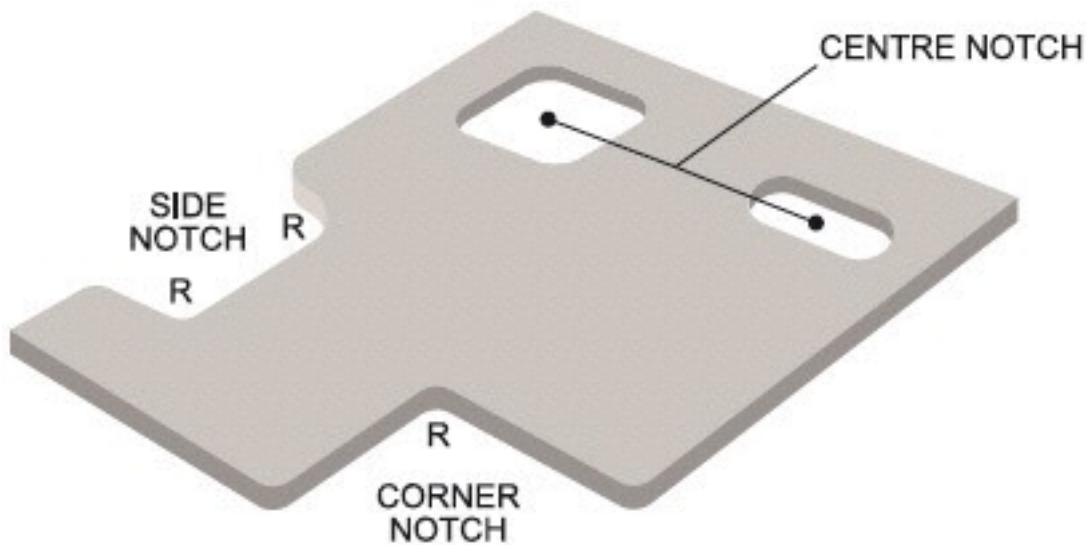
## FINGER GRIPS

Standard finger grips (slots) are 13mm wide. Length and depth depend on the glass thickness.

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## NOTCHES



The inside of notches must have radius corners at least equal to the thickness of the glass.

### EDGE FINISH

- Edges will have a flat smooth (ground) finish with arris. Polished notches are available on request. Limitations apply.

### DIMENSIONS

- The height/width of a notch must be greater than the thickness of the glass. The depth of a notch cannot be greater than half the width of the glass.

### TOLERANCES

- The tolerance on notch location in relation to the edge of the glass is  $\pm 2.0\text{mm}$ .

### CORNER NOTCHES

- Defined as having maximum dimensions of 200mm x 200mm. Must have an internal radius corner (R) at least equal to the glass thickness. Notches are generally supplied with a flat smooth edge.

### SIDE NOTCHES

- Defined as having maximum dimensions of 200mm x 200mm. The minimum distance from a corner should be 75mm. External corners on notches must be rounded. Notches are generally supplied with a flat smooth edge.

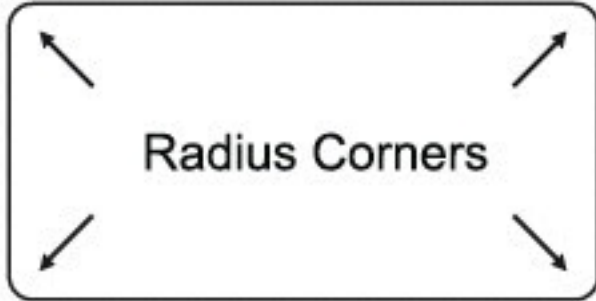
### CENTRE NOTCHES

- All centre notches must have radius comers equal to or greater than the glass thickness. The distance between the edge of the centre notch and the glass edge must be at least four times the glass thickness, with a minimum of 25mm for 4-6mm glass and 100mm for 8-19mm glass. The interior width of a centre notch must be equal to or greater than the glass thickness. The distance between centre notches must be at least four times the glass thickness. The notch height and width must be less than 50% of the glass height / width. Centre notches are generally processed by Waterjet Cutter then arrissed.

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## RADIUS CORNERS



Standard size radius corners are 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 and 70mm. A template is not required for standard size radius corners. Radius corners can be supplied as clean cut or with polished edges.

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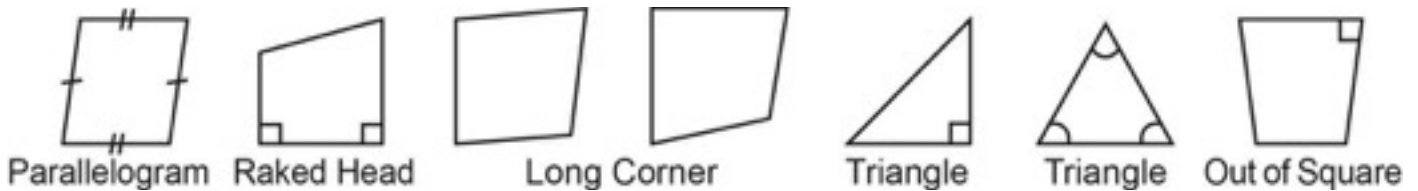
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## SHAPE CUTTING

Squares and rectangles with radius or cut off corners are not regarded as irregular shapes. Glass defined as irregular shapes can fit into three possible categories described below with examples.

### STRAIGHT LINE SHAPES

- Description: Straight line shapes with a maximum of 4 sides.
- Includes: Long corners, out of square parallelograms, raked heads, triangles.
- Dimensions must be clearly defined with all necessary measurements.



### REGULAR SHAPES

- Description: Common shapes with a maximum of 6 straight sides.
- Includes: Arch tops, circles, hexagons, quadrants, semi circles.
- Dimensions must be clearly defined with a template or CAD drawing supplied.



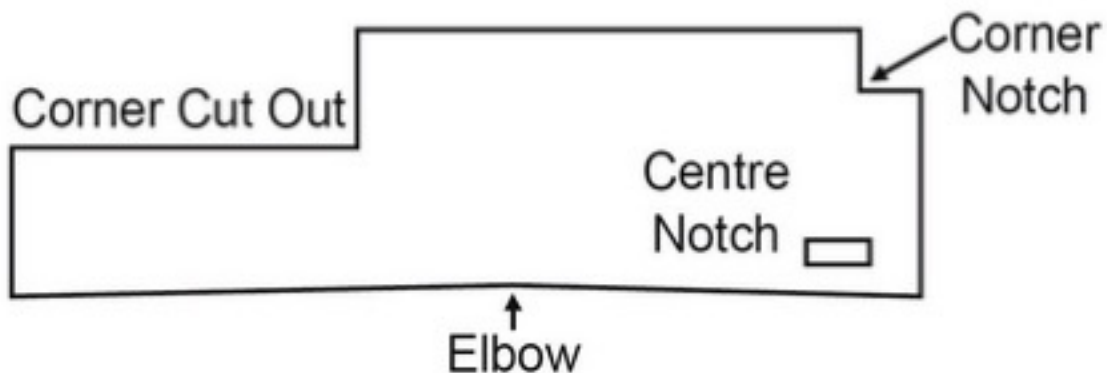
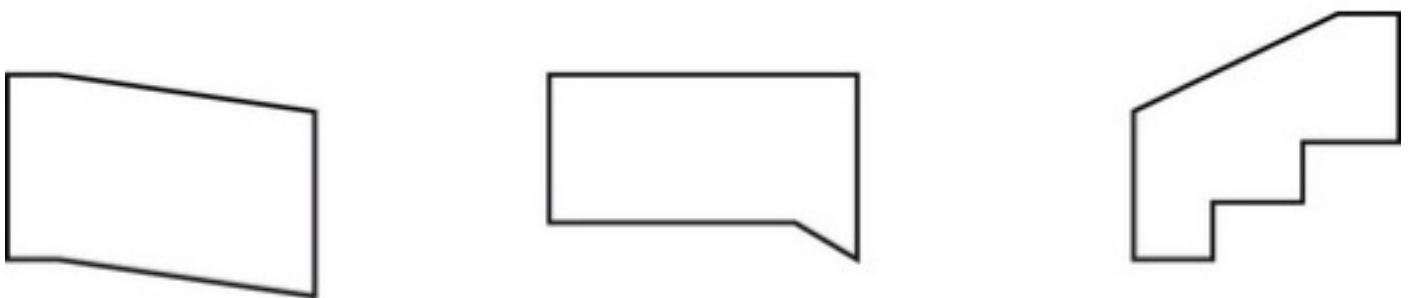
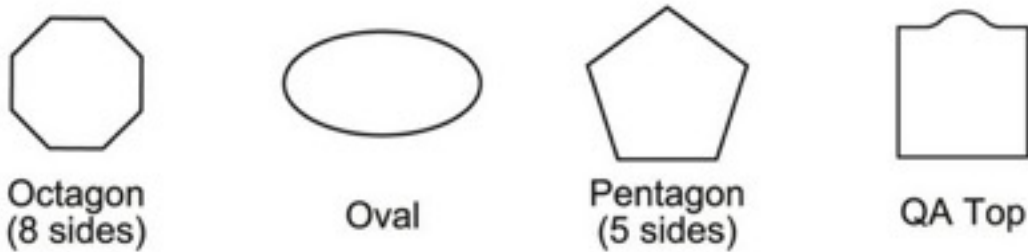
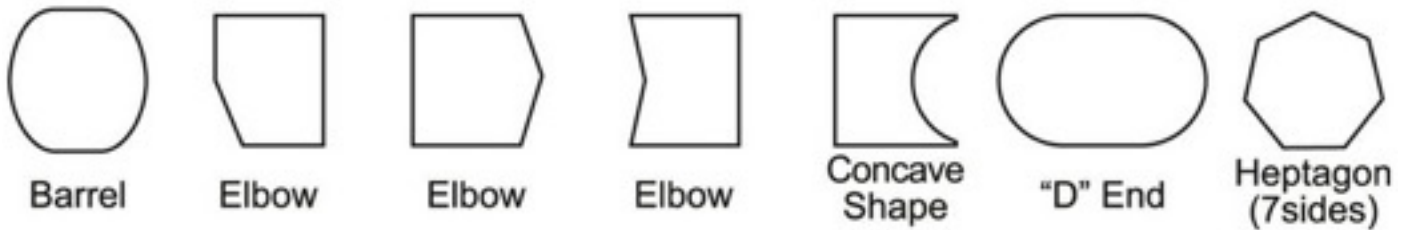


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## COMPLEX SHAPES

- Description: Irregular shapes with more than 6 sides, non-straight edges or curved shapes.
- Includes: Barrels, elbows, concave shapes, "D" ends, heptagons, octagons, ovals, pentagons, Queen Anne tops, abstract shapes and any other shapes not previously covered.
- Dimensions must be clearly defined and a CAD drawing or template supplied.
- Templates must comply with the Rough Old Glass Template Specification Sheet.



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## SPLASHBACK MULTI-PROCESSED PANELS

### DEFINITION

Any glass panel incorporating any or all of the following:

- Processed glass panel with any combination of four or more cut outs, notches or hole configurations.
- Any panels with polished internal cut outs.
- Processed panels with multiple hole configurations for typical tap set-ups.

### SPECIFICATIONS

- Large size panels will be considered subject to W.H.&S. and manufacturing considerations, up to a maximum size for any panel of 4000 x 1500mm. An additional charge will apply for these panels. This charge would be in addition to standard edgework charges, shape cutting charges and template handling charge.

### TOLERANCES

- Glass supplied by Rough Old Glass is manufactured to comply with Industry Standards. Therefore, standard visual and surface tolerances will apply.
- Finished tolerances are  $\pm 2.0$ mm on all overall dimensions, cut outs and hole positions.

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## TEMPLATES

Rough Old Glass processes customer supplied templates using a process known as Virtual Digitising. This process involves taking a photo of the template against a reference point background, using a digital camera with a calibrated lens.

This photo is then imported into a program allowing us to “replicate” the individual template shape, including holes, cut-outs and notches, which is then converted into our glass processors various processing machinery.

The following specifications are intended to reduce any lost time due to an unacceptable template with the main consideration being that the quality of the template will largely affect the outcome of the finished product.

- CAD or similar computerised drawings are acceptable and preferred to actual templates.
- A template handling charge of £40 + VAT (Retail) will apply in addition to other charges for all orders to template.
- All templates must be of a sturdy material, such as timber, ply or MDF.
- Templates should be actual FULL SIZE - we may be able to use templates made up of more than one piece, however the finished glass is less likely to be accurately produced. They would be accepted only at your risk.
- Templates that can be stretched or shrunk, such as paper or plastic, will not be accepted.
- Templates made of glass are not desirable, due to potential breakage & H&S concerns.
- All templates must have customer’s name and Rough Old Glass four digit estimate number clearly marked, attached and followed up with an emailed order.
- Templates must clearly show which side is to be the Face side (the side that you can still see once it’s been installed)
- Templates made with multiple thicknesses may distort the actual size during processing.
- Templates to be returned to the customer must be labelled accordingly - as a rule, we retain templates for one month after the glass has been delivered to you to allow for swift remakes should any damage be caused either during transit or installation.
- We supply toughened glass without kite mark logos for aesthetic reasons. Should you require a kite mark logo you must clearly indicate this.
- Templates for toughened glass must comply with Rough Old Glass Toughened Glass Specifications covering sizes, notches, holes etc. for toughened glass.
- Templates with added or subtracted measurements will not be accepted.

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- Multi-dimensional templates will not be accepted, i.e. one template must refer to one glass panel.
- Broken or damaged templates may not be accepted.
- Standard size radius corners (i.e. 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 and 70mm) do not require a template.
- Radius corners drawn on orders and emailed will not be accepted as a template unless an accompanying specified dimension is included.
- Hole positions on templates should be clearly marked with a cross to identify centre point or supplied with required hole sizes drilled in the template.
- Ensure that your template not only fits the space into which it will be installed, allowing at least 2mm expansion gap all the way around the edge, but that it also passes through any potential obstacles such as fixed wall cupboards or wall returns in alcoves.
- Finally - remember that glass does not flex. If you have to bend your template to manoeuvre it into place, your template is too big!