

SPECIFICATION GUIDE:  
**Glass Processing Guide**

Thank you for your enquiry. Osborn Glass & Windows specialise in the production all glass material.. This document has been created to help as a guide when specifying your design. Below is an explanation of what is required to create your own exclusive design. If you require assistance with your designs please contact us directly at [webenquires@osbornglass.com](mailto:webenquires@osbornglass.com) 020 8653 2200

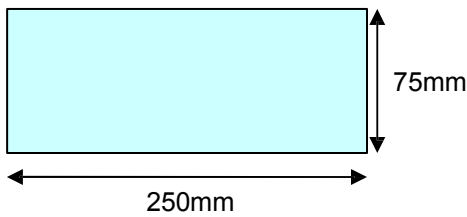
**Toughening Statement:**

We recommend that all glass between 6mm, and 12mm thickness is toughened where possible. (6mm glass is usual for splash-backs). Glass of 15mm and over can be toughened if you require however glass at 15mm and over is considered a robust material and does not need to be toughened to be considered as a safe material.

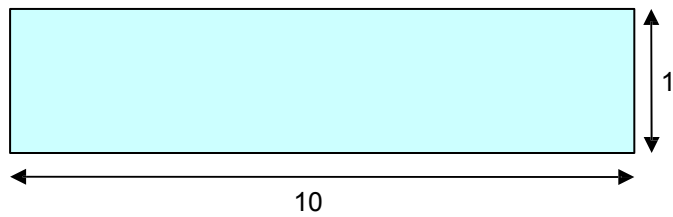
**Specifying toughened glass:**

**Minimum glass dimensions.**

When ordering glass for toughening you need to consider the minimum size of glass and also the ratio of lengths as shown below.



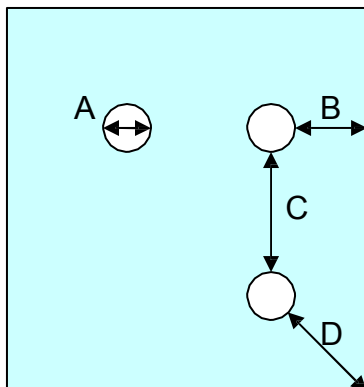
**Minimum size - 250mm x 75mm**



**Ratio of lengths – 10:1**

**Holes:**

When toughening glass there are various rules, such as 'hole sizes' and 'distance from edge', which need to be considered. Below is a diagram which explains the limitations and will tell you whether you can toughen your glass shape or not. This diagram is a critical consideration which we recommend be used in the planning stage of any development.



**Specifying Holes**

- A = 1X the thickness of the glass
- B = 2X the thickness of the glass
- C = 2X the thickness of the glass
- D = 4X the thickness of the glass

**The diameter of the hole must be equal to or greater than the thickness of glass.**

## Socket and Cut-outs:

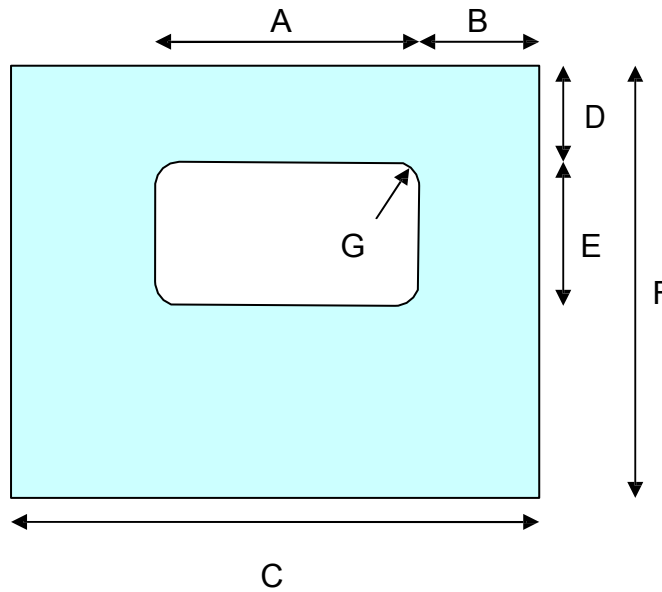
When specifying square holes in your glass you will need to ensure that:

$$B \geq \frac{1}{2} A$$

$$A \geq C$$

$$D \geq \frac{1}{2} E$$

$$E \geq F$$



**G** = The internal radius of an unpolished cut-out must be equal to the thickness of the glass when using toughened glass.

The internal radius for a cut-out with a polished finish is a minimum of 13mm.

We recommend an unpolished edge for insides of socket holes as the edge is not seen and to create as much room for fixings as possible.

### Working out the weight of glass:

To work out the weight of glass please follow this simple formula.

**Weight = 2.5kg per square meter per millimetre of thickness.**