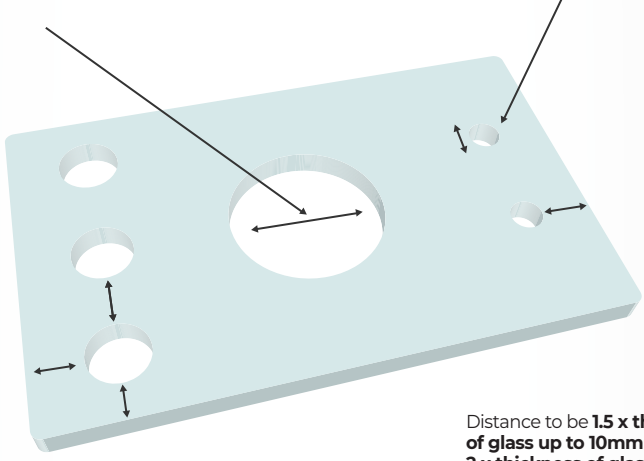


Guidelines For Toughened Glass



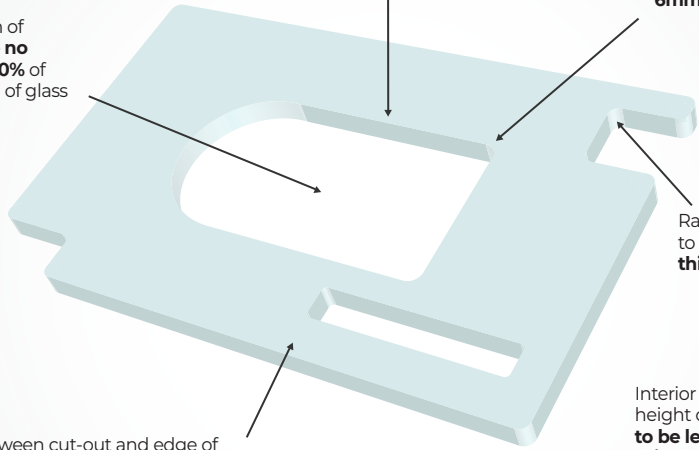
Maximum hole diameter to be **less than 50%** of narrowest height/width of glass for holes **over 75mm**

Minimum **diameter 6mm** but not less than thickness of glass

Distance between holes to be at least **4x thickness of glass**

Distance to be **1.5 x thickness of glass up to 10mm** glass and **2 x thickness of glass over 10 mm** for holes at sides

Holes at corners distance to be **4 x thickness of glass from edge and at least 1.5 x thickness** from other edge. Except where - glass thickness > 10mm to be 4 x thickness to both edges and where - angle of corner < 90 to be 4 x thickness to both edges



Minimum **19mm radius** at semi-circle of cut-out

Polished internal cut-out must be **minimum of 13mm radius**

Non-polished cut-out must be **minimum of 6mm radius**

Height/width of cut-out to be **no more than 30%** of height/width of glass

Radius of corners to be **equal to the thickness** of the glass

Distance between cut-out and edge of glass to be **at least 50%** of hole/cut-out width or height in the direction in question. Minimum of **75mm 4-6mm** glass. Minimum of **100mm 8-19mm** glass.

Interior width and height of cut-out **not to be less than the thickness** of the glass.

Rectangular cut-outs to **have a hole radius**. Have radius corners or semicircular ends not less than the glass thickness.



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Please refer any applications outside these tolerances to Express Toughening to review.

Visit us at

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