



### **Tempered Glass:** Technical Specifications

Our tempering ovens produce high quality glass with minimum distortion & bow. As well as tempered glass we also offer Heat strengthened glass up to ½” thick.

### **Coated Glass:**

By re-investing in our tempering ovens, we ensure the latest technology upgrades are installed, to process new generation high performance soft coated low emissivity insulated glasses and temperable solar control coated glass variants. This ensures we stay in front of the ever changing High performance coatings market and can offer multiple coated solutions to our clients.

### **Glass Machining:**

We can offer the facility to simply seam edge, polished or ground edges including complexed shaped glass, drilled holes. We also offer a full laminated glass service for standard float or Low emissivity and high performance coatings for Insulated Glass units.

### **Screen Printing, Back Painted, and Digital Image printing:**

We offer a screen printing service, with most RAL colours being offered for multiple designs including the basic dot prints.

**Back painted glass** can also be provided with the full range of RAL colours on offer.

**Digital Image printing** can be offered & used for a variety of Architectural solutions, there are some colour limitations which can be discussed per project please ask.

All of our painted glass can be offered for lamination, drilled, polished or ground edges without issue.

### **Heat Soak Testing:**

When required we can offer toughened glass to be heat soak testing to EN-14179.

### **Curved Tempered:**

We can offer a true curved glass for standard float, low iron and High performance Low Emissivity glass. Those products can also be processed and laminated when required by code.

## Tempered Glass/ Heat Soak Testing-Capabilities:

Characteristics:	Specification North America:	Europe
Maximum glass size:	126" x 354" Flat, 108" x 181" Curved	3210mmx9000mm, 2750mmx4600mm Curved
Minimum glass size:	10" x 12" Flat, 28" x 20" Curved	254mmx300mm Flat, 711mmx508mm Curved
Glass thickness by range:	1/6" to 3/4" Flat, 1/5" to 3/4" Curved	4mm to 19mm Flat, 5mm to 19mm Curved
Heat strengthened thickness range:	1/6" to 1/2" Flat, Not available for Curved	4mm to 12mm, Not Available for Curved
Control of flatness or overall bow:	1/6" Thick 1/8" over 39.3"	4mm Thick 3mm over 1000mm
	1/5" Thick 1/12" over 39.3"	5mm Thick 2mm over 1000mm
	1/4" to 3/4" Thick 1/16" over 39.3"	6mm to 19mm Thick 1.5mm over 1000mm
Control of roller wave distortion:	1/6" Thick 0.004"	4mm Thick 0.10mm
	1/4" Thick <0.003"	6mm Thick <0.08mm
	5/16" to 3/4" Thick =<0.002"	8mm to 19mm Thick <0.05mm

## Holes & cut-outs:

Position of holes:	Distance between glass edge & the hole should be at least twice the glass thickness, from the corner should be six times thickness of glass to the edge of the hole
	When two or more holes are required in a piece of glass, then the distance of holes should be at least half the hole diameter or twice the glass thickness
Hole Diameters:	The minimum diameter hole should be 1/4" for glass thickness up to and including 1/4" glass. The diameter of hole for thicker glass should be at least the same thickness of glass or greater

### Standards North America:

Tempered/Heat Strengthened Glass: ASTM C1048

Heat Soak Testing: EN 14179

### Standards European:

Toughened Glass: BS EN-12150

Heat Strengthened: EN-1863

Heat Soak Testing: BS EN-14179

We can work to tighter tolerances than those listed, please feel free to contact us for project specific, we can also review the European Z-25 or North America 08 88 00 specification documents to evaluate the product & tolerance requirements, which we can agree specifics pre-contract arrangements.