



Curved Glass: Technical Specifications

Curved glass is simply flat glass which has been heated to an appropriate temperature over a mould with a predetermined profile. As the glass heats it becomes softer and slumps to the form of the mould. It is then cooled under controlled conditions and annealed to minimise any residual stress in the glass.

Options

The majority of available flat glasses can be bent including those with Pyrolytic coatings. Exceptions include some surface coatings and soft coat solar control glass but Romag California Series laminated solar control glass can be offered curved as an alternative. Any thickness of glass can be curved, however there is a relationship between the area and girth of the glass and the thickness.

In general the greater the area the thicker the glass, the smaller the radius the thinner the glass. The minimum radius is also dependent on glass thickness.

Product Definition

As curved glass requires tooling to be prepared for each type of curve it is important to define the shape accurately, the following information is required:

- Quantity
- Height
- Outer Girth (Girth measured on the convex surface)
- Outer Radius (Radius measure to the convex surface)
- Composition (Laminated, double glazed, thickness etc.)
- Special Requirements (Printing, holes etc.)

Templates

Occasionally for more complex shapes it is not possible to define the shape with a simple radius and girth, in this instance it is possible to work to a template.

Templates should be made from wood hardboard or metal. Paper and cardboard templates are not acceptable. If preferred a drawing in CAD format can also be transmitted to us electronically.

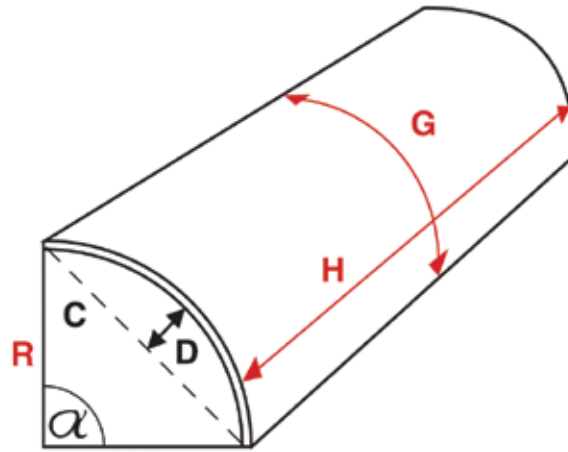
Product Specification

In order to avoid potential problems, it is recommended that customers should consult our technical department prior to order placement to discuss the product makeup and performance in relation to the intended application.

Terminology

H - Height	2900mm Maximum (max.girth, 1800mm)
G - Girth	2900mm Maximum (max.height, 1800mm)
R - Radius	200mm Minimum
C - Chord	
α - Angle	90° Maximum
D - Drop	400 Maximum
T - Thickness	Thickness determined by Girth

$$\alpha \pm 57.296G/R$$



Tolerance

Edge flatness	± 3 mm per metre
Twist	6mm Max
Radius	6mm Max. deviation from theoretical shape

The attached information is intended as a guide to the technical details on Romag's key products. The information may be incorrect or incomplete. For more detailed information relating to specific applications, please contact Romag's technical department.



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Visionaries in glass
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Romag Limited

Leadgate Industrial Estate, Leadgate, Consett, Co. Durham, England, DH8 7RS

Tel: **+44 (0) 1207 500 000** Email: sales@romag.co.uk or visit www.romag.co.uk