



## Bent Glass

Vitrum Glass Group is committed to investing in new technologies and glass fabrication solutions. With the recent addition of a bent tempering oven Vitrum is able to offer a complete line of fabricated glass products to meet all of your design requirements.

Vitrum bends glass through the process of heating, curving and rapidly cooling the glass to produce bent tempered glass with custom cylindrical bends in sizes up to 110 inches wide by 118 inches high. State-of-the-art convection tempering technology ensures minimal distortion and strict radial tolerances.

As all bent glass projects are unique we encourage you to give us a call (1.888.391.1166) today to discuss your bent glass requirements, sizing and pricing.

### Bent Features

- Cylindrical bends with a maximum bending depth of 26 inches
- Various glass substrates including clear, tinted, acid-etch, Starphire™ and select low-e coatings
- Wide range of glass thickness from 5mm (3/16") to 19mm (3/4")
- Short cycle lead times

### Capabilities

Minimum	15" (381mm) x 24" (610mm)	
Maximum	110" (2800mm) x 118" (3000mm)	
Glass Thickness (un-coated)	3/16" - 3/4" (5-19mm)	
Glass Thickness (low-e)	3/16" - 3/8" (5-10mm)	
Minimum Radii of Curvature	3/16" - 1/4" (5-6mm)	63" (1600mm)
	5/16" - 1/2" (8-12mm)	98" (2489mm)
	5/8" - 3/4" (15-19mm)	157" (3987mm)
Maximum Bending Depth	26" (650mm)	

### Bent Laminated Glass

- Constructed by bonding two or more layers of bent glass
- Available in PVB and SentryGlas® (SGP)
- Conforms to all safety and industry standards
- Improved sound control
- Added UV Protection

### Bent Printed Glass

- Add additional design elements with ceramic frit
- Roll-coating, screen and digital printing available
- Improves energy performance by reducing solar heat gain

### Bent Insulated Glass

- Select low-e coatings available in bent configurations
- Sealed units are constructed using various spacer materials that are compatible with bent units
- Available in sizes up to 110" x 118"
- Low-E thickness from 5mm (3/16") to 10mm (3/8")

### Fabricated Bent Glass

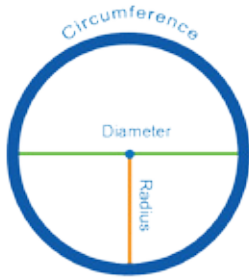
- Holes and notches (drilled before bending)
- Flat grind and polished edges



### Additional Resources & Specifications

Bent glass is one of the many premium fabricated glass solutions offered by Vitrum Glass Group. To learn more about Vitrum's extensive selection of glass products or to obtain samples, visit [vitrum.ca](http://vitrum.ca), or call 1.888.391.1166.

# Important Definitions for Bent Glass



**Circumference:**

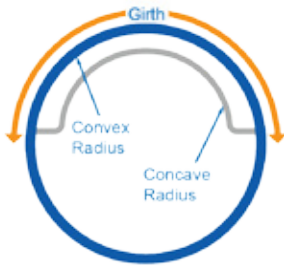
The distance around the outside of a circle.

**Radius:**

A straight line from the center to the circumference of a circle. When specifying a radius, always specify which surface the radius is being measured to.

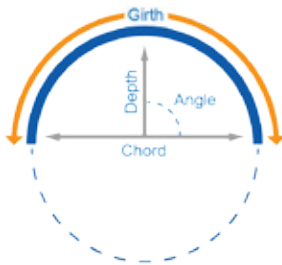
**Diameter:**

The diameter is the length of the line through the center that touches two points on the edge of the circle.



**Girth:**

Length around a curve. Measurement taken on either the concave or convex face of the glass (specify which). Measurement must be taken with a flexible (cloth) tape.



**Chord:**

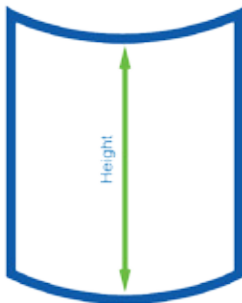
Line segment between two points on a given curve – measurement must be taken with a flat ruler.

**Depth:**

Distance between the chord and the highest point of the curve. Maximum depth is 26" (650mm).

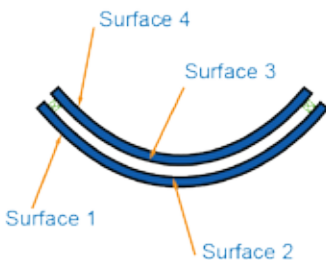
**Angle:**

Angle measurement in degrees of the bend.



**Height:**

The length measurement of the edge perpendicular to the horizontal arc or girth. Maximum width is 110" (2800mm). Maximum height is 118" (3000mm).



**Glass Surfaces:**

Insulated glass surfaces in relation to bent glass.

