

Custom Glass Fabrication Capabilities Technical Capabilities Brochure

10/21

Heat Tempering: (Standard ASTM C-1048-04)

Heat Tempering toughens soda lime through the controlled heating and cooling of the glass to maintain a temperature differential between the core and outer surfaces. The stressed induced compress the outer surfaces, forming a substrate substantially tougher than standard soda lime. When broken, tempered glass “dices” into many small pieces. This is typically referred to as “Safety Tempering” for it’s reduced likelihood of cutting a person in the event of a fracture.

- **Horizontal Heat Tempering Furnace:**

Minimum Thickness:	3 mm [0.118”]
Maximum Thickness:	19 mm [0.75”]
Minimum Size:	76.2 mm x 76.2 mm [3” x 3”]
Maximum Size:	838.2 mm x 736.6 mm [29” x 33”]
Maximum Size:	(Diagonal) 1056.8 mm x 736.6 mm [42” x 29”]* Approx. 51” Diagonal
Treatment:	Temper Kind Full Temper (FT) or Heat Strengthened (HS)

* Contact factory for sizes beyond these dimensions.

