

Your Total Solution Partner

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.

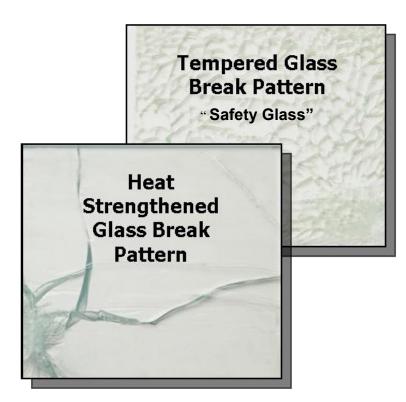
Horizontal Heat Tempering Furnace:

Minimum Thickness: Maximum Thickness: Minimum Size: Maximum Size: Maximum Size:

Treatment:

3 mm [0.118"] 19 mm [0.75"] 76.2 mm x 76.2 mm [3" x 3"] 838.2 mm x 736.6 mm [29" x 33"] (Diagonal) 1056.8 mm x 736.6 mm [42" x 29"]* Approx. 51" Diagonal Temper Kind Full Temper (FT) or Heat Strengthened (HS)

* Contact factory for sizes beyond these dimensions.



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