



Technical Data Sheet - GlasShield HST™ (FGTDS-IS-09)

GlasShield (HST) is a fully tempered (also called toughened or fully toughened) glass that is manufactured in one of two electric horizontal roller-hearth tempering lines and then heat-soaked. Heat-soaking is done to reduce or prevent the possibility of nickel-sulphide (NiS) induced spontaneous breakages. It is a destroying test, eliminating glasses bearing critical NiS inclusions, by a 2 to 3 hour heat treatment at $(290 \pm 10)^\circ\text{C}$. and is completely compatible with all the requirements and procedures laid by the European Standard pr EN14179-1*.

TECHNICAL SPECIFICATIONS

Description	Levels
Process Type	Horizontal Roller-Hearth Convection Furnace
Glass Type	Clear, extra clear, ultra clear, tinted, solar-control coated, low-E coated
Glass Thickness	3.00 mm to 12.00 mm
Edge Type	Rough grind, arrissed, super polished
Compressive Stress (Edge)	67 MPa (9,700 Psi) minimum
Compressive Stress (Surface)	69 MPa (10,000 Psi) minimum 3000 mm X 5100 mm (6.00 mm)

DIMENSIONS

Description	Levels
Minimum Size	200 mm X 300 mm
Maximum Size	2440 mm X 3600 mm (4.00 mm and 5.00 mm) 3000 mm X 5100 mm (6.00 mm) 3000 mm X 6000 mm (8.00 to 19.00 mm)

UNIQUE SELLING POINTS

Description	Levels
Process Type	Audited EN-14179 conforming process

* Please refer our Technical Document (FGTD-17.1) for detailed explanation of NiS induced spontaneous breakage and the heat-soak process.