



Future Glass Website ecoSHIELD

ecoSHIELD

Unparalleled strength and safety for your facades

Our ecoSHIELD fully tempered glass is up to five times stronger than annealed glass of the same thickness. We use our state-of-the-art horizontal roller hearth convection furnace, with top and bottom heating, to process these panels, following which our advanced and precise cooling system ensures very high glass flatness. Our processes minimise the risk of spontaneous breakage due to the presence of nickel sulphides, making ecoSHIELD an ideal fit for your façade requirements.

Key Features

Quick Customisations

Our ecoSHIELD panels can be customised with advanced coatings and laminated or insulated depending on your façade needs.

Robust Processing System

We use our state-of-the-art top-and-bottom forced turbo-charged convection system, heat-scanner with precise measurement points and dual-oscillating quenching technology to ensure that each ecoSHIELD panel surpasses the most stringent quality checks.

Easy Tracking

Our Litesentry equipment enables us to ensure 100% real-time tracking of each glass panel. Additionally, it allows us to ensure quality control and minimise optical distortion.

Technical Specifications

Feature	Description
Process Type	Horizontal Roller-Hearth Convection Furnace
Glass Types	Clear, extra clear, ultra clear, tinted, solar-control coated, low-E coated
Additional Process Compatibility	Ceramic frit, DIGIVIEW digital printing, sand-blasting, acid etching, holes, cutouts and notches
Product Enhancement	Can be converted to ecoTHERM (insulated glass) and ecoLAM (laminated glass)
Glass Thickness	4 mm to 25 mm
Edge Types	Rough grind, arrissed, super polished
Compressive Stress (Edge)	67 MPa or 9,700 psi minimum
Compressive Stress (Surface)	69 MPa or 10,000 psi minimum



Emissivity	Minimum 0.01**
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*** Lower emissivity only applicable for insulated or laminated glass assemblies*

Dimensions

Minimum Size	200 mm x 300 mm
Maximum Size	2440 mm x 3660 mm (4 mm and 5 mm) 3000 mm x 5100 mm (6 mm) 3000 mm x 6000 mm (8 mm to 19 mm) 25 mm maximum size available on request