Corning[®] Enlighten[™] GlassProduct Information Sheet

Corning[®] Enlighten[™] Glass is an enabling technology for high-performance windows, doors, and skylights that can significantly enhance the thermal performance, comfort, and aesthetics of built environments.

Benefits

- Allows for thinner, lighter designs for architectural applications including the center lite of tripleand quad- pane insulated glass units, impact and safety laminated glass, and smart windows.
- Protective glazing offering provides excellent durability and a scratch resistant surface
- Enables innovative new designs with greater design freedom to optimize energy, acoustic, and safety performance as well as frame width
- Optically neutral, pristine surface with improved insulated glass unit (IGU) seal integrity

Material Properties

Glass Type	Boro-Aluminosilicate	
Form	Fusion-drawn sheets	
Sheet Size (max)	2200 mm x 3200 mm	
Thickness	0.5 mm to 0.7 mm ±10%	
Flatness	<1 mm/m	
Squareness	±3 mm (ASTM C1036)	
Blemishes	ASTM C1036 Type 1, Class 1, Q3; EN 572-4	
Coating	Compatible with LowE coatings	

Thermal & Mechanical Properties

Thermal Expansion	32 x 10-7 / °C
Thermal Conductivity	1.09 W/m/K (23°C)
Vickers Hardness (200 g load, 25 sec dwell)	560
Density	2.38 g/cc
Fracture Toughness	0.8 - 0.9 MPa*m0.5
Youngs Modulus	74 GPa
Shear Modulus	30 GPa
Poisson Ratio	0.23

International Glazing Database Registration

Glazing Type	ID	Product Name
Monolithic	22500	0.7 mm Enlighten Glass
Monolithic	22501	0.5 mm Enlighten Glass

Innovative Windows, Doors, and Skylights







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Jp to §	50% glass w	eight Enh
educt	ion in IGU	per

Lightweight

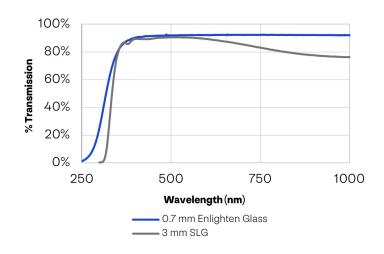
Energy Efficient

Enhanced thermal performance within same IGU footprint

Improved outside noise reduction with less weight

Acoustic Performance

Superior Optical Quality



Lighter Weight

Glass	Thickness (mm)	Weight per area (kg/m²)
Enlighten Glass	0.5 / 0.7	1.2 / 1.7
Soda Lime Glass	3/4/6	7.5 / 10 / 15