



Clear Laminated Glass

Laminated glass is two or more lites (pieces) of glass permanently bonded together with one or more plastic interlayers (PVB: polyvinyl butyral) using heat and pressure. Laminated glass can be broken, but the fragments will tend to adhere to the plastic layer and remain largely intact, reducing the risk of injury.

Applications: Windows, Storefronts, Jewelry Showcases, Railings.

Meet Standard: ASTM C1172-14

EN 14449

ISO 12543

ANSI Z97.1

Glass Thickness		Makeup / Composition	VLT %	SHGC	Winter U-Factor
mm	inches				
6.76mm	1/4"	1/8" Clear Glass + 0.030" Clear PVB + 1/8" Clear Glass	88	0.79	1.00
8.28mm	5/16"	1/8" Clear Glass + 0.090" Clear PVB + 1/8" Clear Glass	88	0.76	0.96
10.76mm	3/8"	3/16" Clear Glass + 0.030" Clear PVB + 3/16" Clear Glass	87	0.76	0.97
12.28mm	7/16"	3/16" Clear Glass + 0.090" Clear PVB + 3/16" Clear Glass	87	0.72	0.94
12.76mm	1/2"	1/4" Clear Glass + 0.030" Clear PVB + 1/4" Clear Glass	87	0.75	0.96

Visible Light Transmittance (VLT): The percentage of the visible spectrum (light) that is transmitted through the glass.

SHGC: The fraction of incident solar radiation admitted through the glass, both directly transmitted and absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a glass solar heat gain coefficient; the less solar heat it transmits.

Winter U- Value: Measure of the insulating characteristics of the glass in which how much heat gain or loss occurs through the glass due to the difference of indoor and outdoor temperatures using NFRC winter nighttime environmental conditions of cold outside temperatures and no sunlight.

Hurricane Impact Resistant Glazing: To meet the requirements of the ASTM E 1996 Small Missile Test, laminated glasses typically include a PVB interlayer with a thickness of 0.06" (1.52 mm) and for the Large Missile Test an interlayer of 0.090" (2.28mm) is required.

Some features that Laminated Glass has is that it: 1. Provides Safety measures as when glass breaks it adheres to the plastic interlayer rather than breaking into pieces like common annealed glass. 2. Sound Insulation is also one of the characteristics as the PVB interlayer present in the laminated glass can absorb sound waves and reduce sound. 3. Laminated glass is used due to it's tough breakage. 4. Used in areas where Hurricanes, Tornados and Earthquakes are common as it can stand heavy wind loads and impact.

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