

PRODUCT PERFORMANCE-COMPLIANCE WITH STANDARDS

CastGlass architectural glass meets the following industry standards, as applicable:

	GLASS QUALITY	SAFETY GLAZING
UNITED STATES	<ul style="list-style-type: none"> ASTM C1036 – Specification for Flat Glass ASTM C1172 – Specification for Laminated Architectural Flat Glass augmented by CastGlass inspection guidelines for laminated glass, and level CBA rated in accordance with ASTM E-773 – Test Method for Seal Durability of Sealed Insulating Glass Units ASTM C1172-03 – Specification for Maximum Allowable Overall Bow and Warp for Laminated other than Annealed Transparent Glasses 	<ul style="list-style-type: none"> ANSI Z-97.1 – Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings CPSC 16 CFR 1201 – Safety Standard for Architectural Glazing Materials, Category I and II
CANADA	<ul style="list-style-type: none"> CAN/CGSB-12.1-M – Specification for M90 Tempered or Laminated Glass 	<ul style="list-style-type: none"> CAN/CGSB-12.1-M – Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings

GLASS THICKNESS & WEIGHTS

GLASS TYPE	GLASS BUILD	TOTAL THICKNESS*	WEIGHT (PER SQUARE FOOT)*
LAMINATED	3mm lite / interlayer / 3mm lite	7.7 mm (5/16")	3.6 lbs
	6mm lite / interlayer / 6mm lite	13.7 mm (9/16")	6.4 lbs
	10mm lite / interlayer / 10mm lite	22.23 mm (7/8")	10.4 lbs

*Total thickness and weights are approximate; actual measurements may vary based on specific product type.

ULTRAVIOLET (UV) SCREENING

CastGlass laminated glass transmits less than one-tenth of one percent of UV. It blocks over 99.5% of solar radiation at wavelengths 380 NM and below, where by comparison, 1/4" clear float glass transmits over 70%.

GRAPHICS DIMENSIONS & TOLERANCES

GRAPHIC FEATURE	DIMENSION	
Size	±1/8"	±3.2 mm
Registration	±1/8"	±3.2 mm
Color Trap	+1/8"	+3.2 mm
Panel-to-Panel Match	±1/4"	±6.4 mm

Registration is placement of the interlayer within the glass area. The **Color Trap** is the overlap of adjoining imprinted densities or colors. **Panel-to-Panel Match** can be controlled more tightly in the field, during glazing, when the glazing system is designed to accommodate shimming.

INSPECTION GUIDELINES

Vision Area Glazing - To incorporate unique product characteristics, the following table supersedes ASTM C1172, Table 3.

CHARACTERISTIC	SIZE THRU 25 sf (2.33 m ²)		SIZE OVER 25 sf (2.33 m ²)	
	CENTRAL AREA	OUTER AREA	CENTRAL AREA	OUTER AREA
Boil (Bubble)	1/16" (1.6 mm)	3/32" (2.4 mm)	1/8" (3.2 mm)	3/16" (4.8 mm)
Blow-In, Edge Boil	N/A	C 1/4" (6.4 mm)	N/A	C 1/4" (6.4 mm)
		E 1/32" (0.8 mm)		E 1/16" (1.6 mm)
Discoloration	None	None	None	None
Fuse	1/32" (0.8 mm)	1/16" (1.6 mm)	1/16" (1.6 mm)	3/32" (2.4 mm)
Hair, Lint (Single Strand)	Light	Medium	Light	Medium
Inside Dirt (Spot)	1/16" (1.6 mm)	3/32" (2.4 mm)	3/32" (2.4 mm)	5/32" (4.0 mm)
Concentrated Lint (Area)	Light	Light	Light	Light
Separation, Delamination	None	1/4" (6.4 mm)	None	1/4" (6.4 mm)
Short Interlayer	N/A	C 1/4" (6.4 mm)	N/A	C 1/4" (6.4 mm)
		E 1/16" (1.6 mm)		E 3/32" (2.4 mm)
Interlayer Scuff, Dirt Streak	Light	Light	Light	Light
Interlayer Edge Ripple 6" (15.2 cm) max length	N/A	C 1/2" (12.7 mm)	N/A	C 1/2"
		E 3/8" (9.5 mm)		E 3/8" (9.5 mm)
Interlayer Pinholes, Voids 1/16" (1.6mm) max diameter	No Clusters	Clusters	No Clusters	Clusters
Interlayer Streaking, Mottling	Medium	Medium	Medium	Medium
Interlayer Roll-Wave Distortion	Heavy	Medium	Heavy	Medium

The **Central Area** is an area formed by an oval or circle whose axes or diameters, when centered, do not exceed 80% of the overall dimension; the **Outer Area** is the remaining perimeter.

C = Conventionally glazed, unexposed edge; **E** = Butt-glazed or other exposed edge

Light = Barely noticeable when viewed from a distance of 3 feet (1 meter) under normal lighting conditions

Medium = Noticeable from 3 feet (1 meter), but not 11' (3.5 meter)

Heavy = Plainly noticeable from any viewing distance