CONTRAFLAM® 90 IGU

Fire rated clear tempered safety glass for exterior applications

Classification

Fire resistive
This glass product withstands fire exposure to the non-fire side and protects from flames, smoke, hot gases and and limits temperature rise on the unexposed side.

Fire protective
This glass product withstands fire exposure to the non-fire side and protects from flames, smoke, hot gases and significantly reduces radiant heat.

Impact safety
Impact safety rated to meet the highest human impact safety ratings.

Hose Stream
This product withstands the hose stream test requirements.

Available Options

- → Protection
- → Extra clear → Noise reduction → Climate control
- → Coloring → Matte finish → Shapes → Screen printing
- → Double glazing → Solar control

Contact us for a personalized solution to meet your product requirements.

Technical Specifications

Fire Rating	90 minutes
US / Canada Standards	ASTM E-119; NFPA 80, 252, 257 - UL 9, 10B, 10C, 263 CAN/ULC S101, S104, S106
Building code markings	D-H 90; D-H-T 90; OH 90; W 90; D-H-T-W 90
Impact Safety Rating	ANSI Z97.1, CPSC 16CFR 1201-CAT II, CAN/CGSB - 12.1-M90
Application	Interior / Exterior

Winter: 0.735 / Summer: 0.674	CONTRAFLAM® 90 IGU	
Nominal thickness	1 15/16 in. (49 mm)	2 3/16 in. (55 mm)
Thickness tolerance	± 1/8 in. (± 3 mm)	± 1/8 in. (± 3 mm)
Glass 1	1/4 in. (6 mm) PLANITHERM XN II	1/4 in. (6 mm) PLANITHERM XN II
Spacer	1/4 in. (6 mm) Argon	1/2 in. (12 mm) Argon
Glass 2	1 7/16 in. (37 mm) CF 90	1 7/16 in. (37 mm) CF 90
Weight	18 lb/ft² (88 kg/m²)	18 lb/ft² (88 kg/m²)
STC/OITC rating (ASTM E 413/E1332)	Upon request	Upon request
Visible transmittance (NFRC 200)	73%	73%
Light reflection pL ext./int. (CIE 15)	13% / 13%	13% / 13%
U-factor (BTU/h*sq.ft*deg F) (NFRC 100)	Winter: 0.269 / Summer: 0.275	Winter: 0.200 / Summer: 0.194
Solar heat gain coefficient (NFRC 200)	0.51	0.52
Energy transmission (NFRC)	41%	41%
Door. Temp Rise: Max exposed w x h. a* Max dimensions *[Based on Intertek Spec ID 84964]*	35 3/4 in. x 88 9/16 in., 3174 sq. in. (908 mm x 2250 mm, 2.04 m²)	
Windows. Transom. Sidelite: Max exposed w x h. a* Max exposed dimensions *[Based on Intertek Spec ID 84964]*	88 9/16 in. x 88 9/16 in., 3174 sq. in. (2250 mm x 2250 mm, 2.04 m²)	
Non Loadbearing Wall Assemblies: Max exposed dimensions *[Based on Intertek Spec ID 73711]*	94 5/8 in. (2400 mm); Area: 30,8 sq. ft. (2.86 m²)	

**Height multiplied by width cannot exceed maximum exposed area.*
Shapes: Dimensional tolerances may vary.
Dimensions provided are based on general protective rated listing.

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