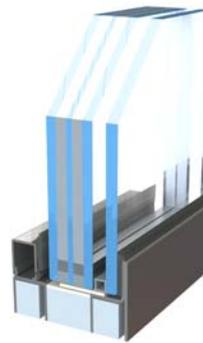


CONTRAFLAM® 60 IGU

Fire-Rated Clear Tempered Safety Glass - Exterior Application

CLASSIFICATION

PRODUCT FEATURES



TECHNICAL SPECIFICATION

Fire Rating	60 min. Fire-Resistance-Rated	
Testing / Standard Conformity	UL 10b, 10c, 263 NFPA 80/251/252/257 ASTM E-119 CAN/ULC-S101, S104, S106	
Building Code Marking	D-H-T-60, OH-60, W-60	
Impact Safety Rating	CPSC 16CFR 1201-CAT II; CAN/CGSB-12.1-M	
Nominal Thickness (in.; mm)	1-1/2" (33 mm)	
Tolerance (in.; mm)	+ 1/8" to - 1/16" (+3 mm to -1.5 mm)	
U-Value (BTU/hr*sq.ft*°F)	0.34	
STC Rating (dB)	44	
Visible Light Transmission (%)	80	
Weight (lbs./ft.²; kg/m²)	14.9 (73.0)	
Groove (in.; mm)	Depth: 7/8" (22mm)	Width: 1-3/4" (45mm)

MAXIMUM DIMENSIONS	Window, Transom Sidelight		Door Non-Temp Rise		Door Temp Rise	
	Maximum Exposed Height (in.; m)*	94-13/16 (2.41)	89-1/2 (2.27)	89-1/2 (2.27)	89-1/2 (2.27)	89-1/2 (2.27)
Maximum Exposed Width (in.; m)*	94-13/16 (2.41)	30 (0.76)	30 (0.76)	30 (0.76)	30 (0.76)	30 (0.76)
Maximum Exposed Area (in.²; m²)	4,449 (2.87)	2,685 (1.73)	2,685 (1.73)	2,685 (1.73)	2,685 (1.73)	2,685 (1.73)

*Height multiplied by width cannot exceed maximum exposed area.

APPLICATION OPTIONS

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> VDS Door | <input type="checkbox"/> VDS Lite Door | <input checked="" type="checkbox"/> Hollow Metal Temp Rise Door |
| <input checked="" type="checkbox"/> VDS Frame | <input type="checkbox"/> VDS Lite Frame | <input checked="" type="checkbox"/> Hollow Metal Non-Temp Rise Door |
| <input checked="" type="checkbox"/> VDS Curtain Wall | | <input checked="" type="checkbox"/> Hollow Metal Frame |

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PRODUCT TERMS AND CONDITIONS

CONTRAFLAM® / SWISSFLAM® / CONTRAFLAM® STRUCTURE / KERALITE®-ULTRA

1. General: This document applies to CONTRAFLAM®, SWISSFLAM®, CONTRAFLAM® STRUCTURE, KERALITE®-ULTRA of all types and fire ratings including their combination in insulated glass units. When fire-resistant glass is used, it is assumed that the buyer will incorporate abovementioned glass into glazing systems approved by a valid and independent institution, e.g. UL/Underwriters Laboratories. Copies of authorized listing and specifications, as well as instructions for handling and installation are available online at vetrotechusa.com, or by calling 1-888-803-9533.

2. Limited 5 Year Warranty: Vetrotech Saint-Gobain warrants that its CONTRAFLAM®, SWISSFLAM®, CONTRAFLAM® STRUCTURE, KERALITE®-ULTRA fire rated glazing to be free of substantial obstruction of vision from dust or other foreign substances due to defective materials or workmanship for a period of five years from the date of shipment. When assembled to an Insulated Glass Unit (IGU), Vetrotech warrants only that its CONTRAFLAM®-IGU, SWISSFLAM®-IGU, CONTRAFLAM® STRUCTURE-IGU, KERALITE®-ULTRA-IGU will be free of substantial obstruction of vision from dust, film formation or moisture accumulation between glass lites resulting from seal failure due to defective materials or workmanship for a period of ten years from the date of shipment.

CONTRAFLAM®, SWISSFLAM®, CONTRAFLAM® STRUCTURE, KERALITE®-ULTRA is an engineered specialty fire resistant glazing material. Certain optical and visual faults are inherent to the production process. These characteristics may be evaluated according to the manufacturer's quality standards, but do not impair the transparency or affect the performance of the glass in case of fire, and shall not be considered cause for rejection.

This warranty shall not apply if the failure is caused by acts of God, intervening cause, mishandling, misuse, abuse, improper installation, installation by unqualified glaziers or by any other cause whatsoever not within our exclusive control, and shall not apply unless the failure occurs within five or ten years after the date of shipment. The obligation of this warranty is to replace the defective glass, F.O.B. manufacturer's warehouse, but in no event shall Vetrotech Saint-Gobain be responsible to cover any cost of removal, installation or reinstallation, loss of

use, incidentals or any consequential cost associated with defective product. Any glass replaced under this warranty is limited to the original warranty period and shall not be extended beyond the original five or ten years.

Vetrotech Saint-Gobain makes no warranty of merchantability nor that the product is fit for any particular purpose for use and no other warranty than the abovementioned warranty of any kind, expressed or implied.

3. Transportation and Storage Conditions: Transport and storage of CONTRAFLAM®, SWISSFLAM®, CONTRAFLAM® STRUCTURE, KERALITE®-ULTRA products must be in a vertical and dry state and at temperatures above 14°F (-10°C) and below 113°F (45°C). Extreme climatic conditions and exposure to direct sunlight or other heat sources must be avoided. When glass is installed in a not temperature controlled building, above storage conditions apply likewise.

4. Handling and Installation Requirements: The product warranty is subject to CONTRAFLAM®, SWISSFLAM®, CONTRAFLAM® STRUCTURE, KERALITE®-ULTRA glass having been handled and installed in accordance with published instructions. It is essential that glazing contractors or other handlers or installers be familiar with such instructions. All subsequent product processing, additions or alterations not authorized and monitored by Vetrotech Saint-Gobain are specifically prohibited. If the products are used in fire-rated applications not covered by Vetrotech Saint-Gobain product specifications, all warranty is null and void.

All notes and instructions on labels must be respected. If adhesives or sealing materials are applied during installation, compatibility must be verified and confirmed with Vetrotech Saint-Gobain beforehand or all warranty is null and void.

5. Product Use: CONTRAFLAM®, SWISSFLAM®, CONTRAFLAM® STRUCTURE, KERALITE®-ULTRA products must be used in temperature controlled environments ensuring a maximum glass temperature range between 14°F (-10°C) and 113°F (45°C). All circumstances resulting into heat build-up of the glass caused by window blinds, curtains, etc. must be avoided.