



Protect Against Fire, Smoke & Radiant & Conducted Heat. These Fire-Rated Glazings are A Multi-Laminated And Fully Insulated Glass with 2 Panes of Tempered Safety Glass Separated by an Intumescent Interlayer.

CONTRA SPECIFICATIONS:

Thickness CONTRA60:	1" (25mm)
Thickness CONTRA90:	1-3/8" (34mm)
Weight CONTRA60:	11.0 lbs. per sq. ft
Weight CONTRA90:	18 lbs. per sq ft
Light Transmission:	75-80% (varies with thickness)
STC Rating:	Up to 44
Warranty:	Five year limited warranty
Fabricated:	USA
Options at Additional Cost:	Can be etched or sandblasted.
Radiant Heat Barrier (Clear, Colorless, Intumescent Layer):	Interlayers absorb the energy from the fire, limiting the temperature rise to the non-fire side.
Size:	Minimum Size 12" Diagonal

LISTINGS & RATINGS:

Fire rating listed and tested by ITS/Warnock Hersey or Underwriters Laboratories (File # R22066) for fire rating scheduled at opening locations in drawings when **Tested in accordance with: (ASTM E2010, ASTM E2074 & ASTM E119), (NFPA 252, NFPA 257, NFPA 251, UL 263). With Hose Stream.**

Impact Safety Rating: ANSI Z97.1 & CPSC 16CFR 1201 (CAT I & II)

Positive Pressure Rating: UL10C/UBC 7-2/UBC 7-4

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in appropriately-listed and labeled vision frame assemblies using suitable setting blocks and closed cell PVC tape, pure silicone, or ceramic glazing tape. Allow for minimum edge coverage of 3/8" and a minimum edge clearance of 1/4". ContraShield is an engineered specialty fire resistant glazing material. Certain optical and visual imperfections are inherent in 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.

Air Louvers frames for CONTRA60: VLFIG, VLFEZIG, VSIG, VLFS10. Frames for CONTRA 90: VLFIG, VLFS10

LABELING:



Each lite of ContraShield will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating period and safety glazing standards.

Assembly	Time Rating (minute)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*
Wood/Steel Door	60	3325 in ²	35"	95"
Borrowed Lite	60	3325 in ²	35"	95"
Steel Door	90	3204 in ²	36"	89"
Borrowed Lite	90	3204 in ²	36"	89"

* Please note that combined height and width cannot exceed the maximum exposed area measurement.

Order Format: CONTRA90 ____ (W) ____ (H) Example: CONTRA901212

Interpretation of Fire and Building Codes May Vary. Consult with the Local Authority Having Jurisdiction (AHJ) to determine appropriate standards.

	Distributor:	Width: ____ x Height: ____
	Architect:	Quantity:
	Contractor:	Fire Rating: _ ____ 60 ____ 90
	Project:	Date: _____ Version: ALSPDS1001

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