



KeraShield FRF is a Wire-Free Ceramic Glass that is Impact & Safety-Rated for Use in Accidental Human Impact Safety Locations in Up to 3 Hour Fire-Rated Door Assemblies.

KFRF SPECIFICATIONS:

Description:	Ceramic glass with a surface-applied safety film.
Thickness:	3/16" (5mm)
Weight:	2.7 lbs/sq. ft.
Light Transmission:	85% approx.
Film:	3M Scotchshield® Ultra Safety Film (on one surface)
Warranty:	Three year limited warranty
Fabricated:	USA
Options at Additional Cost:	Can be lightly etched or sandblasted.
Size:	Minimum size 12" diagonal, max sheet size 46" x 78"

LISTINGS & RATINGS:

Fire rating listed and tested by ITS/Warnock Hersey or Underwriters Laboratories, (Listing #R14515) for fire rating scheduled at opening locations in drawings when **Tested in accordance with: (ASTM E-163, ASTM E-152), (NFPA 252 & 257)**

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

Listing: Up to 3 hours with hose stream test.

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

LABELING:



Each lite of KeraShield FRF 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.

INSTALLATION:

Use glazing compound or glazing tape on both sides of glass, install in an appropriately-listed and labeled vision frame. 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 KFRF: VLF, VLFEZ, VSL.

Assembly	Time Rating (minutes)	Maximum Exposed Area	Maximum Width Exposed Area*	Maximum Height Exposed Area*
Door - Non Temp Rise	20-60	3627 in ²	46"	78"
Window, Transom Lite, Sidelite	20-60	3627 in ²	46"	78"
Door - Temp Rise	60-90	100 in ²	10"	33"
Door - Non Temp Rise	90	3534 in ²	46"	76"
Window, Transom Lite, Sidelite	90	2736 in ²	46"	78"
Door - Non Temp Rise & Temp Rise	3 hours	100 in ²	10"	33"

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

Note: Glass-ceramics do not act as a barrier to radiant or conducted heat transfer (ASTM E119/UL 263) and as such, use in openings with fire ratings of 60 minutes or greater may require approval from the local authority having jurisdiction (AHJ).

STOCK ITEM - THIS ITEM IN STOCK FOR NEXT DAY SHIPMENT IN 15 STANDARD SIZES FROM CA AND MN WAREHOUSES

Order Format: KFRF ____ (W) ____ (H) Example: KFRF2329 Note: Order Size is Actual Glass Size

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: 20 60 90 3HR
	Project:	Date: _____ Version: ALSPDS1001

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