

# SGG KERALITE® FR-F

Contains Smoke  
and Flame

Thermal Protection

Barrier to Heat



Larger  
size now  
available!



## SGG KERALITE® FR-F

SGG KERALITE FR-F is a specialty glass-ceramic fire- and impact safety-rated material for use in fire-rated door, window, transom and borrowed lite assemblies. A surface applied safety film is applied to achieve a CPSC CAT II High Impact Safety Rating. Listed for applications with ratings from 20 minutes to 3 hours.

### Specification

All 20- to 90-minute fire- and impact safety-rated glass as designated in the drawings shall be 3/16" SGG KERALITE FR-F. Please contact Vetrotech Saint-Gobain for full specifications.

### Dimensions

Assembly	Time Rating (min.)	Max. Exposed Area (sq. in.)	Max. Width Exposed (in.)*	Max. Height Exposed (in.)*	Stop Height (in.)
Borrowed Lite					
3/16" (5mm) thickness	20-60	3627	60-1/4	78	5/8
Transom Lite					
3/16" (5mm) thickness	20-60	1872	78	24	5/8
Wood/Steel Door					
3/16" (5mm) thickness	20-60	3627	60-1/4	78	5/8
Borrowed Lite/Transom					
3/16" (5mm) thickness	90	1763	60-1/4	60-1/4	5/8
Wood/Steel Door					
3/16" (5mm) thickness	90	1511	60-1/4	60-1/4	1/2
Wood/Steel Door					
3/16" (5mm) thickness	3 hours	100	12	33	1/2

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

### Features

- Fire-rated from 20 minutes to 3 hours (with hose stream)
- "Wire-free" aesthetics
- Meets positive pressure requirements (UL 10c / UBC 7-2 / UBC 7-4)
- Installs into standard fire-rated doors and frames
- High-impact, safety-rated glass-ceramic (CPSC CAT II) for use in accidental human impact safety locations
- Can be lightly etched/sandblasted
- For use in interior or exterior applications
- Three-year limited warranty
- Economically priced
- Fabricated in USA

### General Characteristics

- Thickness: 3/16" (5mm)
- Weight: 2.7 lbs/sq. ft.
- Light Transmission: 85% approx.
- U-Value: Contact Vetrotech Saint-Gobain for SGG KERALITE FR IGU
- Impact Safety Rating: ANSI Z97.1 & CPSC 16CFR 1201 (CAT I & II)
- Fire Rating: 20-minute to 3-hour (with hose stream)

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). Please consult with a Vetrotech Saint-Gobain specialist prior to specifying or purchasing products.

### Listings

- Tested and listed with Intertek Testing Services (Warnock Hersey) and Underwriters Laboratories (UL), File #R14515, New York MEA #96-03-M/97-03-M
- Tested in accordance with: UBC 7-2 & UBC 7-4, UL 9 & UL 10c, NFPA 252 & NFPA 257, ASTM E2010 & ASTM 2074, CAN4-S104 & CAN4-S106



## SGG KERALITE® FR-F

### Installation

SGG KERALITE FR-F should be installed only into listed fire-rated door and 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".

Check that opening is plumb and square. Inspect carefully before installation; do not install glass that has visible edge or surface damage. Place setting blocks (3" min) at sill, located at approximate quarter points. Check perimeter clearance and adjust setting blocks as needed. Do not block the lite so as to restrict movement due to thermal expansion; direct glass-to-perimeter frame contact should be strictly avoided.

SGG KERALITE FR-F 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.

### Labeling

Each lite of SGG KERALITE FR-F will be permanently labeled, in accordance with NFPA 80, with the product and manufacturer's name, testing laboratory, fire rating and safety rating.

### Storage and Handling

SGG KERALITE FR-F should be handled with care during transport, storage, inspection and installation. Particular attention should be paid to prevent damage to the glass edges. Store in a dry place.

### Other Vetrotech Saint-Gobain Products

#### SGG PYROSWISS® US

- High-impact, safety-rated clear specially tempered product

#### SGG KERALITE® FR

- Fire-rated glass-ceramics/Fire rating up to 3 hours (with hose stream)

**NEW!** Now available in new larger 46" x 78" sheet size  
(standard sheet size: 30" x 60")

#### SGG SWISSFLAM® and SGG CONTRAFLAM®

- High-impact, safety-rated laminates using intumescent interlayers
- Installs into standard fire-rated doors and frames or VDS Framing
- Fire ratings from 45 minutes to 2 hours

#### VDS Framing System

- Complete door-and-frame systems/Ratings from 60 minutes to 2 hours

#### 20-Minute All-Glass Fire-Rated Door

#### SGG SWISSFLAM® Structure 60

- Unique "butt-joint" wall system/No vertical mullions



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SWISSFLAM®, PYROSWISS®, KERALITE®, and CONTRAFLAM® are registered trademarks.



**IMPORTANT:** As the interpretation of building and fire codes may vary, check your local building code for limitations or restrictions regarding the use of this product(s) in connection with your intended application(s).