

# SGG SWISSFLAM®

Contains Smoke and Flame Thermal Protection Barrier to Heat



## SGG SWISSFLAM®

SGG SWISSFLAM comprises two or more layers of laminated safety glass separated by clear, colorless intumescent interlayers. In case of fire, the interlayers absorb the energy from the fire, limiting the temperature rise to the non-fire side and protecting people and property. Benefits include safety glazing characteristics, high performance sound reduction properties and improved U-values.

## Specification

All 45-, 60-, 90-, and 120-minute fire- and impact safety-rated glass as designated in the drawings shall be SGG SWISSFLAM. 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.)
<b>Borrowed Lite</b>					
<b>3/4" (18mm) THICKNESS</b>	45	3775	95-1/2	95-1/2	5/8
<b>1" (25mm) THICKNESS</b>	60	3325	95	95	5/8
<b>1-1/2" (38mm) THICKNESS</b>	90	3204	89	89	5/8
<b>1-9/16" (39mm) THICKNESS</b>	120	3288	94-5/8	94-5/8	3/4
<b>Wood/Steel Door</b>					
<b>3/4" (18mm) THICKNESS</b>	45	3419	36	95-1/2	1/2
<b>1" (25mm) THICKNESS</b>	60	3325	36	95	1/2
<b>Steel Door</b>					
<b>1-1/2" (38mm) THICKNESS</b>	90	3204	89	89	5/8

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

## Features

- Fire-rated for up to 2 hours (with hose stream)
- Protects against fire, smoke and radiant and conducted heat
- Optically clear and "wire-free" aesthetics
- Meets positive pressure requirements (UL 10c / UBC 7-2)
- High-impact, safety-rated laminated glass (CPSC CAT II) for use in accidental human impact safety locations
- Can be etched / sandblasted
- For use in interior or exterior applications – Insulating versions available
- Excellent sound-reduction properties
- Five-year limited warranty
- Complete fire-rated wall system when used with VDS Framing System
- Manufactured in USA

## General Characteristics

- Thickness: Varies with rating and application (range from 3/4" to 1-9/16")
- Weight: Varies with thickness (approx. range 8.0 – 24.0 lbs/sq. ft.)
- Light Transmission: Varies with thickness (approx. 75% – 80%)
- U-Value: Contact Vetrotech Saint-Gobain for SGG SWISSFLAM IGU
- STC Rating: Up to 44
- Impact Safety Rating: CPSC 16 CFR 1201 (Cat I & II) and ANSI Z97.1
- Fire Rating: 45-, 60-, 90-, 120-minute

## Listings

- Tested and listed with Intertek Testing Services (Warnock Hersey) and Underwriters Laboratories (UL), File #R22066/R14515, New York MEA #96-03-M/95-03-M/97-03-M
- Tested in accordance with: UBC 7-2 & UBC 7-4, UL 9 & UL 10c, UL 263, NFPA 252 & NFPA 257, NFPA 251, ASTM E2010 & ASTM 2074, ASTM E119



### Installation

SGG SWISSFLAM 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" and a minimum edge clearance of 1/4".

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 SWISSFLAM 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 SWISSFLAM 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 SWISSFLAM should be handled with care during transport, storage, inspection and installation. Store product in a dry place, stacked vertically in such a manner as to prevent sagging or deflection. During storage and transportation, the temperature range exposure should not exceed 113°F or less than 5°F (45°C / -15°C). SGG SWISSFLAM is for interior applications. For exterior applications, consult Vetrotech Saint-Gobain for information on SGG SWISSFLAM IGU.

### 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 minute 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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**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).