

SMOKE CONTROL REQUIREMENTS

OUR PRODUCTS

SAFTI FIRST® products are listed and labeled by Underwriters Laboratories and Intertek, nationally recognized testing laboratories approved by OSHA. It is required to have 3rd party testing when selling products in North America.

Our products are designed and tested to compartmentalize smoke, flames and in the case of the wall products, tested and listed in compliance with **ASTM E119** to limit and reduce radiant heat flux generated by a fire.

BUILDING CODE REQUIREMENTS

Various provisions of the International Building Code (IBC) require doors to meet the requirements for a smoke and draft control door assembly tested in accordance with **UL 1784**, the Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives.

NFPA 105 states that "Smoke door assemblies shall bear an "S" label indicating a maximum air leakage rate of 3 ft³/min/ft² (0.9 m³/min/m²) and the tested pressure differential of 0.1, 0.2, or 0.3 in. of water." In Section 710.5.2.2.1 of the IBC, it states that "Smoke and draft control doors complying only with **UL 1784** shall be permitted to show the letter "S" on the manufacturer's labeling."

Our **GPX® Builders Series Doors** are eligible to bear the "S" (for Smoke & Draft Control assemblies) if a listed "Category H - Smoke & Draft Control Gasket" has been applied to the assembly. This fulfills the only requirement we need to meet for **NFPA 105** and **UL 1784**.

According to third party, independent testing facilities, certification or labeling is not required for smoke control windows. Section 6.5 of **NFPA 105** states that "Glazing materials shall be capable of resisting the passage of smoke," (6.5.1) and "The perimeter of the glazing material and sidelight and transom frames shall be sealed to resist the passage of smoke at temperatures up to 400° F" (6.5.2).

There are no specific requirements for glazing in borrowed light frames or window frames in **NFPA 105**. Similarly, Section 710.5.1 of the IBC states that "Windows in smoke partitions shall be sealed to resist the free passage of smoke or be automatic-closing upon the detection of smoke."

Although certification or labeling is not required, our **SuperLite® I**, **SuperLite® I-XL**, **SuperClear® 45-HS/HS-LI** and **SuperLite® II-XL** in **GPX® Architectural Series** products will meet the requirements of smoke control windows. The use of a commercial glazing gasket or wet seal application would be sufficient for approval from the building officials.

For more information, please contact **SAFTI FIRST®** at 888.653.3333 or info@safti.com.



NFPA 252

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Standard for Doors



NFPA 257

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Standard for Openings



ASTM E119

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Standard for Walls



NFPA 105

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Standard for Smoke Doors



UL 1784

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Standard for Air Leakage