

ABOUT THE PRODUCT

The **PS-Series** flush doors are designed to meet the architectural most demanding requirements for standard duty to maximum duty full flush doors. **Polystyrene** slab core is known for its insulating properties and is mainly used for exterior applications, where a higher temperature differential from one side of the door to the other side is required.

As described by HMMA / NAAMM – USA (National Association of Architectural Metal Manufacturers-United States of America):

“Polystyrene core doors are the most commonly specified insulated core and are suitable for exterior applications requiring an R-factor (a measure of insulating performance-Thermal resistance and measure of ability to retard heat flow) of up to 6.50”

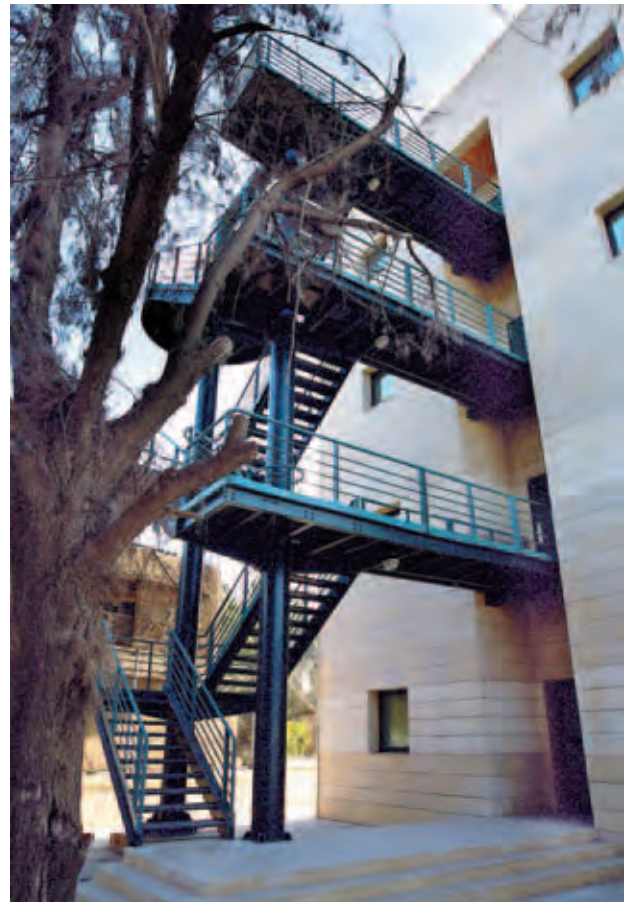
FEATURES

CORE:

- ▶ Pre-foamed polystyrene slab, thermal insulation core.
- ▶ Standard board thickness 43 mm of nominal density 18 Kg/m³. (DIN 53420).
- ▶ Thermal Conductance (43 mm): $U = 0.152 \text{ Btu/hr.ft}^2.\text{°F}$. (ASTM C177).
- ▶ Thermal Resistance: R-Factor = 6.6 hr.ft².°F/Btu (ASTM C518-63T).
- ▶ Fire Retardant (DIN 4102 Class B1). Ignitability designation “P” according to BS 476, part 5.
- ▶ Core is chemically bonded to face sheets providing total surface support.

OPTIONS:

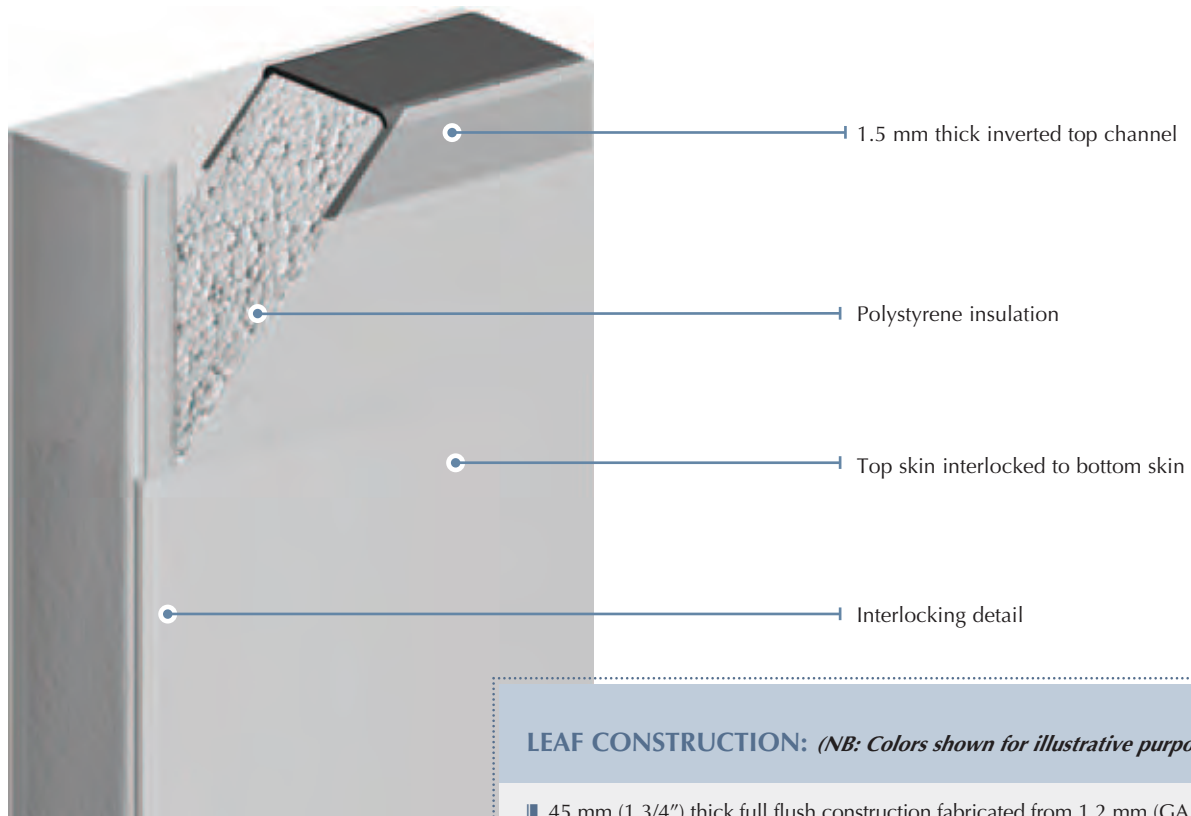
- ▶ Seamless design.
- ▶ Higher density polystyrene slab.
- ▶ Beveled or flush welded glass beads.
- ▶ Alkyd, polyurethane or epoxy RAL paint finish (factory applied).
- ▶ Non-handed reversible design.
- ▶ Vision panels, louver kits, transoms and sidelights.



SPECIFICATIONS OF COMPLIANCE

- ▶ Construction of the PS doors meets the requirements of ANSI A250.8-2003 (SDI 100) and ANSI 151.1.
- ▶ Fire Rating: Up to 3 hrs for single leaf and double leaf swing doors, listed and labeled by Intertek-Warnock Hersey according to UL 10C, UL 10B, UBC 7-2-1994/1997, NFPA 252-1995, ASTM E152-81a, CAN4-1980, BS 476 Part 20 and ISO 3008.
- ▶ Level “A” grade in accordance with ANSI A 250.4 test procedures.





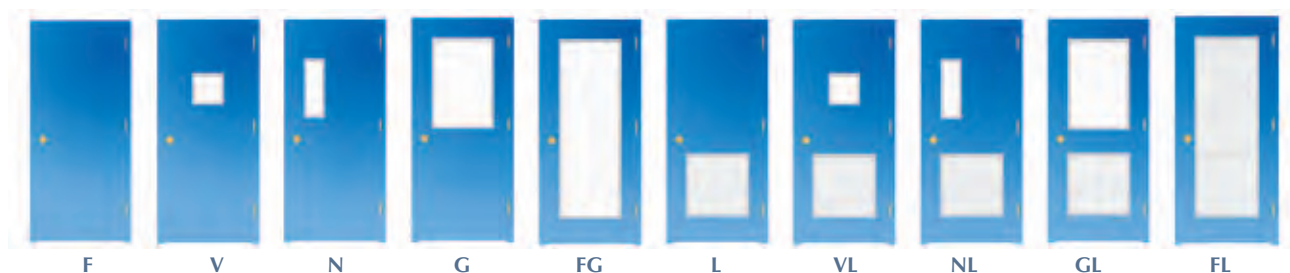
LEAF CONSTRUCTION: *(NB: Colors shown for illustrative purposes)*

- 45 mm (1 3/4") thick full flush construction fabricated from 1.2 mm (GA 18), 1.5 mm (GA 16) or 2.0 mm (GA 14) thick steel sheets (commercial quality cold rolled steel / ASTM 366 or galvanized steel / ASTM A653 - A526).
- 1.5 mm (GA 16) thick steel top and bottom channels welded to both face sheets for lasting integrity.
- Mechanically interlocked, hemmed vertical edge seams for added strength and rigidity.
- Hardware reinforcing is in accordance to ANSI, SDI, and NFPA standard requirements.
- 5.0 mm steel hinge reinforcement.
- Factory applied epoxy prime base coat.

DOOR TYPES

The PS-Series doors are available with a wide range of glass light and louver preparations. For fire rating limitations, please refer to the "Product Range Certifications" pages 11 to 15.

DOOR TYPES



F

V

N

G

FG

L

VL

NL

GL

FL