

ABOUT THE PRODUCT

The **TR-Series (Metal Composite Temperature Rise)** flush doors are designed to allow people to pass by the door safely when fire is on the other side. When an opening is required to retard the transmission of heat from one area to an adjacent area, a temperature-rise rated door is required. These doors are typically required in locations such as **stairwell access doors, electrical control rooms, paint storage, etc.** Temperature-rise designations indicate the maximum rise in temperature above ambient on the non-fire side of the door during the first 30/60 minutes of exposure in a standard fire test.

Listed Temperature Rise:

- ▶ Maximum 250 °F at 30 minutes for pairs.
- ▶ Maximum 450 °F at 60 minutes for single swing.

Listed Fire Rating:

- ▶ Up to and including 3 hours.

Note: A temperature rise rating is not a requirement for qualification as a labeled fire door, but, when required, doors are built to meet this criteria.

FEATURES

CORE:

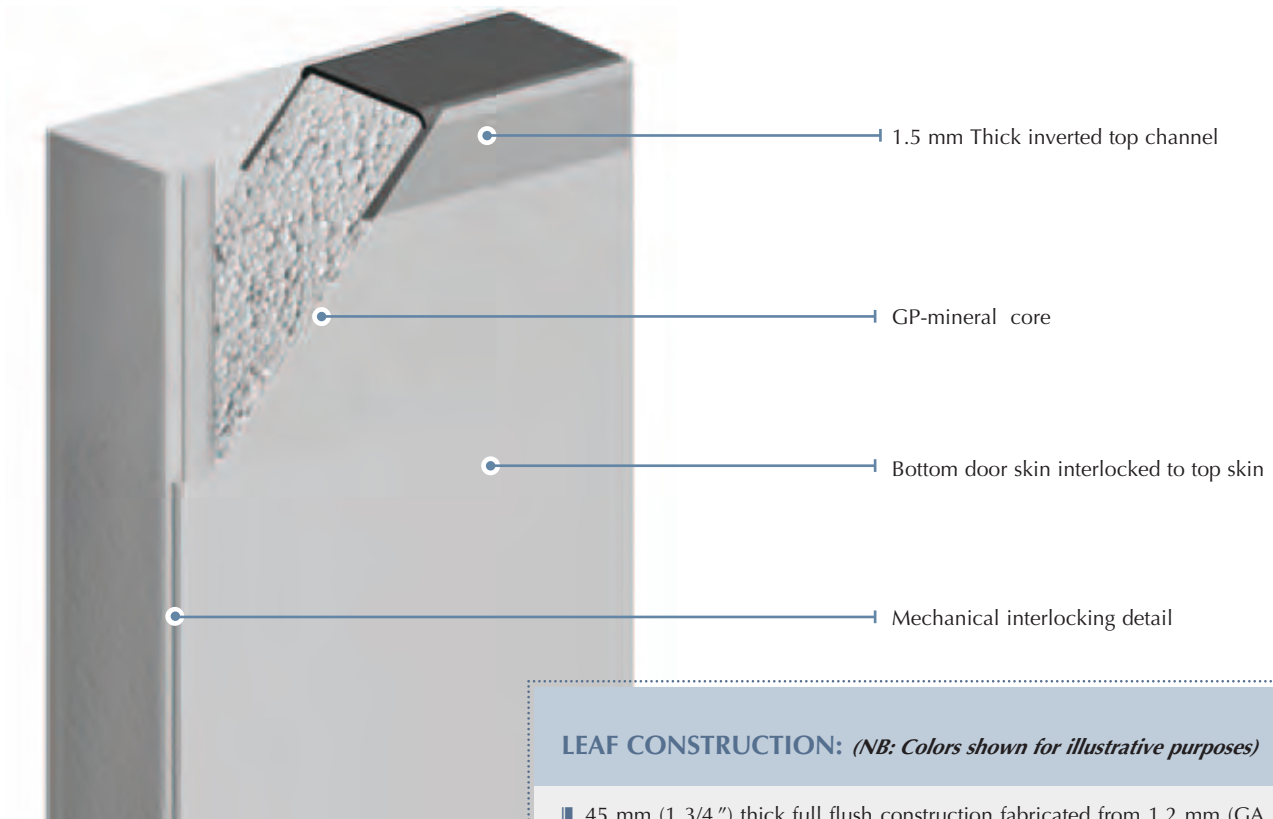
- ▶ **GP-Mineral Core** (made of a proprietary mix of various minerals, fiberglass, and inert binders), of thickness 43 mm and nominal density of 512 Kg/m³. This material fills most of the space in the interior of the door.
- ▶ All 45, 60 & 90 minute fire doors containing GP components qualify for an "S" label opening, provided an appropriate fire-rated smoke and draft control gasket is used.
- ▶ Asbestos-Free material.
- ▶ GP-mineral core meets all the following standards: UBC 7-2 (1997), NFPA 252 (1999), UL 10-C (1998), CAN4-S104, CSFM 12-43-4, ISO 3008, BS 476 PART 22, Japanese Industrial Standard and ASTM E-2074.
- ▶ Tested and certified by **Intertek-Warnock Hersey-USA.**

OPTIONS:

- ▶ Seamless design.
- ▶ Alkyd or polyurethane RAL color paint finish (factory applied).
- ▶ Non-handed reversible design.
- ▶ Listed steel vision panel light kit with maximum visible areas of 8354 cm² (with a maximum width of 914 mm and a maximum height of 1372 mm) for 20 and 45 minute locations or 645 cm² (with a maximum width of 254 mm and a maximum height of 838 mm) for 60 and 90 minutes locations.



Metropolitan Hotel - Electromechanical Room



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).
- 1.50 mm (16 GA) 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 in accordance to ANSI, SDI, NFPA standards requirements.
- 5.0 mm steel hinge reinforcement.
- Factory applied epoxy prime base coat.



SPECIFICATIONS OF COMPLIANCE

- ▶ Construction of the **TR-Series** doors meets the requirements of ANSI A250.8-2003 (SDI 100), SDI 118-01, 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.
- ▶ Listed Temperature Rise for: Maximum 250 °F at 30 minutes for Pairs and Maximum 450 °F at 60 minutes for Single Swing.
- ▶ Level "A" grade in accordance with ANSI A 250.4 test procedures.