



SafeCore®
Innovative Concept
in Fire Door
Technology!



SafeCore®

Positive and Neutral Pressure Fire Door Core

Key Features:

- Lightweight
- Patented Technology
- Excellent Insulating Properties
- Strong and Durable Construction
- Concealed Intumescent for Category A Positive Pressure applications

Key Benefits:

- Light weight for easy handling and installation
- Excellent screw holding strength
- Very Low temperature rise*
- Pre-sanded - ready to apply crossband and veneer or door skin

Product Offerings:

- 45, 60, 90 Minute Ratings*
- Neutral and Positive Pressure**
- Warnock Hersey Certification Label – Intertek Testing Services
- Wood edge available in a variety of species
- 45, 60 & 90 Minute Singles up to 4-0 x 8-0 and Pairs up to 8-0 x 8-0

* **“Positive Pressure” conforms to UL 10(c) and UBC 7-2 (1997) Part A: “Methods of Fire Tests of Door Assemblies”:** (Positive furnace pressure).

** **“Negative Pressure” conforms to UL 10(b) CAN/ULC S104, NFPA 252, ASTM E 152. CSFM 43-7, and UBC 7-2 (1994) “Methods of Fire Tests of Door Assemblies”:**(Conventional or neutral furnace pressure).

Temperature Rise:

- Maximum 250° F at 30 minutes - NFPA 80
- Maximum 250° C at 60 minutes - National Building Code of Canada



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- Innovative Fire Door Technology:

Lightweight

After several years of development, testing and refinement, a new concept in fire door core technology emerged. **SafeCore®** is a proprietary pre-banded mineral core that is much lighter in weight by comparison. The core material, SkamoDoor Board 300, at only 18.7 pcf density (300 kg/m³), is up to 60% lighter than other core materials.

Insulating:

In Temperature Rise Tests*, **SafeCore®** remains well below the maximum allowed temperature limit on the non-fire side of the door. This is because of the superior insulating properties of the SkamoDoor 300 core material.

Built-in Technology:

SafeCore® is a proprietary core with patented design (U.S. Patent No. 6,434,899). The result is in strength, durability and excellent screw holding capability. Because it is lighter than most cores, stress is relieved on the door’s hardware components. The installer will appreciate the **SafeCore®** Door’s light weight and no added intumescent required at the job site (positive pressure category A applications). **SafeCore®** is also available for neutral pressure applications and category B positive pressure applications.

Flexibility:

SafeCore® is made to order with a wide choice of wood stile species and internal blocking options. Inner stiles and rails are of a high-density mineral composite. Stiles are trimmed with 15/32” (15mm) wood allowing them to be trimmed and beveled as required. **SafeCore®** banded core come pre-sanded and ready for the addition of crossband and veneer, or pre-manufactured door skin. **SafeCore®** is available with minimal lead-time required for “just-in-time” delivery.

SafeCore® With Built-in Technology

Standard Blocking:

Blocking Location/Dimension
5” Top or Bottom Rail
7” Top or Bottom Rail
5” Mid Rail
10” Mid Rail
5” Stile
5” x 10” Lock Block
5” x 18” Lock Block

If other blocking is needed, please contact us for availability.



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Stile Species:
Natural Maple
White Maple
Red Oak
White Oak
Cherry
Mahogany
Walnut



Test Method	Test	SafeCore®	WDMA “Extra Heavy Duty Mineral”
NWWDA TM-5	Split Resistance	551 lbs	No requirement in standard
NWWDA TM-8	Hinge Loading	726 lbs	550 lbs
NWWDA TM-10	Stile Screwholding	1010 lbs	550 lbs
NWWDA TM-10	Face Screwholding with Blocking	838 lbs	700 lbs

The following test was performed at the Skamol Technology Center, Roslev, Denmark

Test Method	Test	SafeCore®	WDMA “Extra Heavy Duty Mineral”
NWWDA TM-7	Cycle Slam	1,000,000+	1,000,000

Product development is ongoing; please contact us for core availability and a complete listing of hardware options, adhesives, plant-ons and lites. Ongoing product development and testing will assure added options in the future and compliance with current industry standards.

***General Information:**

Machining specifications are available to authorized door manufacturers and door machiners to produce and/or machine fire doors under Intertek Testing Services NA Ltd. labeling service. To obtain authorization to use these specifications and to access our portal on ITS SpecDirect, or for technical assistance, please contact Fire Safe Products at www.protectdoor.com or by phone at 715-659-4094.

Company & Contact Information:

Fire Safe Products is dedicated solely to the production and supply of quality banded mineral cores **SafeCore®** and core components to the wood and metal door industries. Door manufacturers are our only customers. We look forward to serving you!

Sales Office & Production:

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