

Energy Efficient Steel Stiffened Door

Strong

Steel stiffened laminated core for added strength and durability

Hurricane Rated up to +/-100 psf for a 3'0" x 7'0" single swing and up to +/- 70 psf 8'0" x 8'0" pairs

Beautiful

No vertical weld marks on door face sheets so aesthetically pleasing gloss paint can be applied

Many door designs and color options available

Green Energy Efficient

Injected polyurethane foam for superior insulation and energy efficiency

Lowest U-Factor in the industry for a steel stiffened door

First steel stiffened hollow metal swinging door to qualify for GreenGuard Gold

101 Ashbridge Circle
Woodbridge, Ontario Canada
L4L 3R5
Tel: 416.749.2111
Toll Free: 800.263.7515
Fax: 905.851.8346
www.flemingdoor.com

ASSA ABLOY, the global leader in door opening solutions



Strong, Energy Efficient Doorways In Any Weather Condition

Approximately 40% of all energy leakage comes from the building envelope* this includes exterior doorways. Trio-E doors installed with Fleming Thermal Break frames and Pemko Thermal Barrier Saddles help increase thermal retention and reduce energy leakage.

Trio-E delivers superior insulated values and strength plus, provides aesthetic qualities desired in today's commercial building applications. The "E" is for energy efficiency and Trio-E has one of the lowest U-Factors (0.36) for a steel stiffened door in the market today. The U-Factor of 0.36 was achieved in an operable condition (NFRC 102-2014) using the Fleming Mercury Thermal Break Frame and Pemko Thermal Barrier Saddle. The Trio-E will provide years of strength and sustainable energy savings for any building.

*Tony Woods, Air Tight Buildings, 2005

Features and Options

Standard Features

- 18 Gauge face sheets, 16 gauge optional
- 16 Gauge inverted end channels welded to both face sheets for added strength
- 14 Gauge closer reinforcement

Available Sizes

- 4'0" x 8'0" Maximum single
- 8'0" x 8'0" Maximum pair

Material

- Galvanneal steel

Core

- 22 Gauge steel stiffeners spaced every 6" apart with injected polyurethane foam

Edge Construction

- Mechanically interlocked, hemmed vertical edge seams
- Seamless edges available

Hardware Reinforcements

- Reinforcing for most lock preps, including concealed hardware
- 7 Gauge steel hinge reinforcements

Paint

- Electrostatically applied prime base coat
- Optional factory prefinish

Performance

Thermal Insulation: U-factor of 0.36 (ASTM C1363/NFRC 102-2014) for maximum energy efficiency. The U-Factor of 0.36 and Air Infiltration (NFRC 400-2014/ASTM E283) of ≤ 0.1 cfm/ft² was achieved in an operable condition using the Ceco Mercury Thermal Break Frame and Pemko Thermal Barrier Saddle. The building's actual energy performance and potential savings is a combination of the openings thermal efficiency and ability to reduce air infiltration/exfiltration.

Physical endurance testing: Meets ANSI A250.4 performance test, level A (4,000,000 cycles) class 1 stiffness

Hurricane rating: Up to and including +/- 100 psf 3'0" x 7'0" single or +/- 70 psf 8'0" x 8'0" pairs with weather kerf frame and cylindrical lock, mortise lock or rim exit device. U-Factor 0.38, R-Value 2.6 (NFRC 102-2014)

Fire rating: Up to and including 3 hours 4'0" x 8'0" singles and 8'0" x 8'0" pairs (UL10C) UL & (4'0" x 8'0" singles WH 1-1/2hr max)

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