

Energy Efficient Steel Stiffened Door



Increase Building Energy Efficiency in Any Weather Condition

With energy prices continually increasing and commercial buildings consuming almost 40% of energy usage in North America, Pioneer remains committed to providing maximum thermal resistant solutions. The Trio-E door is steel stiffened for strength, but has achieved an operable U-Factor of 0.36 which is better than most other steel stiffened doors currently available on the market today. Many building owners spend millions of dollars a year on energy bills and the Trio-E represents a chance for them to realize significant savings on a new or retrofit project.

Green

- One of the lowest operable U-Factor in the industry for a steel stiffened door (U Factor .36)
- First steel stiffened hollow metal swinging door to qualify for GreenGuard Gold

Strong

- Steel stiffened core for added strength and durability
- Hurricane rated up to +/-100 psf 3'0" x 7'0" single 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 prefinish color options available

Features:

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:

- Cold rolled or galvanized 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 Colorstyle factory pre-finish



Trio-E Insulated
Steel Stiffened Door

Mercury Thermal Break Frame



Pemko Thermal Barrier
Saddle

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/ ft^2 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)

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

*Tony Woods, Air tight buildings, 2005



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ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

111 Kero Road
Carlstadt, NJ 07072
Phone: 201-933-1900
pioneerindustries.com

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