

# Energy Efficient Steel Siffened 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, Ceco Door 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 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:

- Cold rolled or galvalume 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



Ceco Door Trio-E Insulated Steel Stiffened Door

Ceco 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  $\leq 0.1$  cfm/ft<sup>2</sup> 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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