Energy Efficient

Ceco Door eBook

Mercury 3 Energy Efficient Thermal Break Frame

About This Playbook…

This playbook is intended to provide an overview of the Mercury 3 Energy Efficient Thermal Break Frame from Ceco Door.

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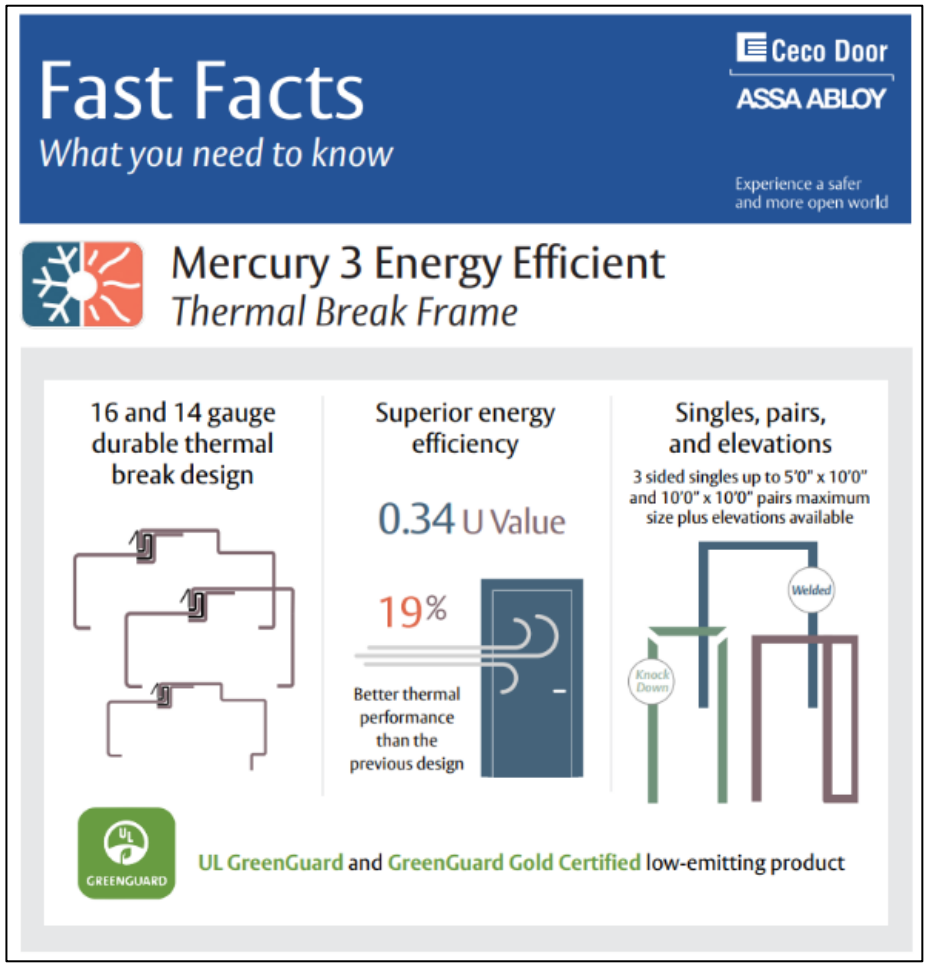
What Is the Mercury 3 Thermal Break Frame?

- The Mercury 3 Thermal Break Frame is a new energy efficient design that incorporates a durable extruded thermal break with a Pemko S44 compression type weather-stripping.
- The Mercury 3 thermal break frame has been independently tested for thermal performance with the **Trio-E door U-Value of (0.34)** in accordance with NFRC 102 and ASTM test methods and resistance to air infiltration (0.1 cfm sq ft), in accordance with NFRC 400 and ASTM test methods.
- This is **19% better thermal performance** than the prior Mercury frame design!

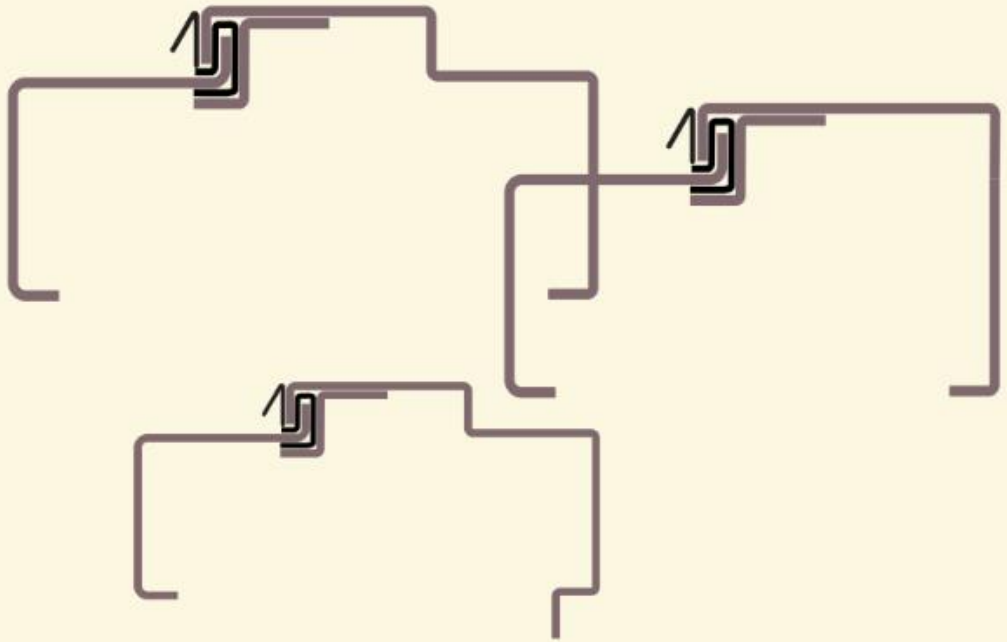


Common Applications

- K-12
- University
- Healthcare
- Worship
- Government
- Municipality
- Parks and Recreation
- Any exterior application

Frame Construction

16 and 14 Gauge Galvanneal Thermal Break Design



- 1” to 4” head and jamb faces
- Single rabbet jamb depths 3-3/4” to 14”
- Double rabbet jamb depths of 5-3/4” to 14”
- Stucco flange profiles available with multiple flange configurations
- 5/8” High stop with energy efficient thermal break extrusion and Pemko S44 gasketing

Frame Construction

Singles, Pairs, and Elevations

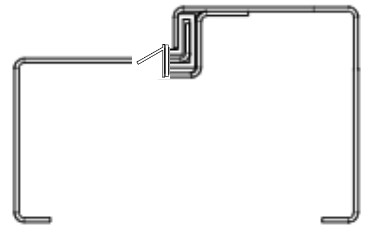
3-sided singles up to 5'0" x 10'0" and 10'0" x 10'0" pairs maximum size plus elevations available

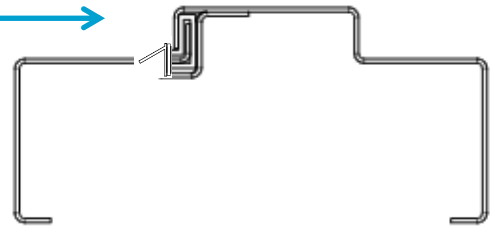
Frame Construction

- 1” through 4” Head and jamb faces
- Up to 5’0” x 10’0” singles and 10’0’ x 10’0” pairs
- Pemko s44 gasket ships loose with frame to be field applied after finish paint
- 5/8” High stop with energy efficient and durable extruded thermal break and Pemko s44 gasket
- Thermal anchors available

FACE	Dim B
HEAD	1” Thru 4”
JAMBS	1” Thru 4”

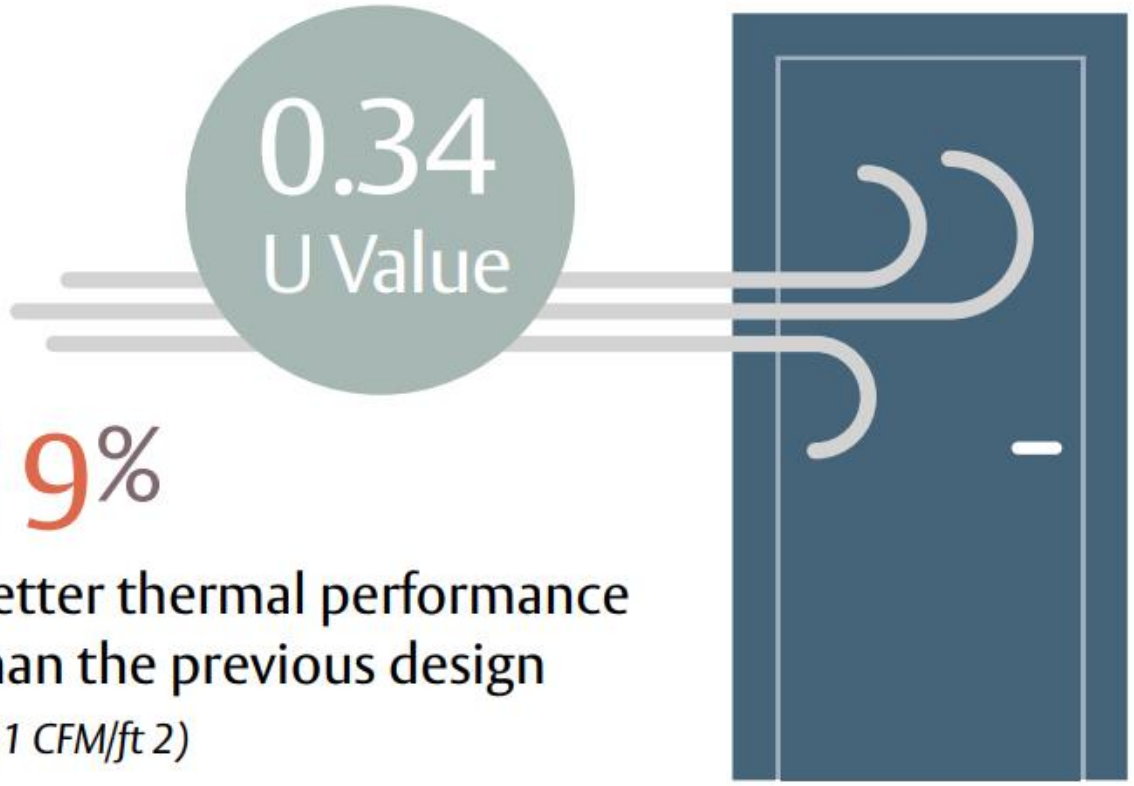
PEMKO S44 SHIPS LOOSE WITH FRAME, TO BE FIELD INSTALLED





Thermal Performance

Superior Energy Efficiency



19%

better thermal performance than the previous design

(0.1 CFM/ft 2)

Trio-E™
Strong • Beautiful • Green

Provides enhanced performance when paired with the

Energy Efficient Trio-E Door

(0.34 U-Value)*

** Tested U-Value per SDI-113 application of ASTM C1363, NFRC 102 and ASTM 1199 and prior test history*

Thermal anchors available

Sustainability

Sustainable Building Programs Credits & Codes

- ASHRAE 189.1 - 8.4.2.6: Ceiling & Wall Systems
- LEED v4 – Building Design & Construction
  - EQ Credit 2 – Low Emitting Materials
  - EQ Credit 4 – Indoor air Quality Assessment, Option 2 Air Testing

Certifications

- GreenGuard and GreenGuard Gold

Pending Certifications

- Environmental Product Declaration (EPD)
- Green Circle Certified Environmental Facts (CEF)
- Passive House certification (PHIUS) with Trio-E


GreenCircle
Certification System

GreenCircle Certified, LLC certifies
that an independent, third-party evaluation has been conducted for:

Ceco Door, an ASSA ABLOY Group Company
Milan, TN

This operation meets all the necessary qualifications
to be certified for the following claims:

Carbon Footprint Reduction[1] - 21%
Energy Usage Reduction - 1%
Waste Diversion from Landfill[2] - 92%
ISO 14001:2015 Certified

1. Pertains to Scope 1 and 2 emissions only.
2. Includes both hazardous and non-hazardous waste streams.

These reductions are based on the operations at the Milan, TN facility during a January 2019 - December 2019 evaluation period as compared to a January 2015 - December 2015 baseline period and have been benchmarked to units of product produced. Waste Diversion from Landfill is based on the January 2019 - December 2019 evaluation period.

Certification Period: January 1, 2021 - December 31, 2023
Certification Number: 20-0502

Referenced Standards: ASTM E2129, GreenCircle's Waste Diversion from Landfill Guidelines, The Greenhouse Gas Protocol (GHG Protocol), the IPCC Guidelines, and ISO 14064

Tad Radzinski, PE, LEED AP, SFP
Certification Officer

GreenCircle CERTIFIED LLC
155 Railroad Plaza, Royersford PA 19468

Government Regulations

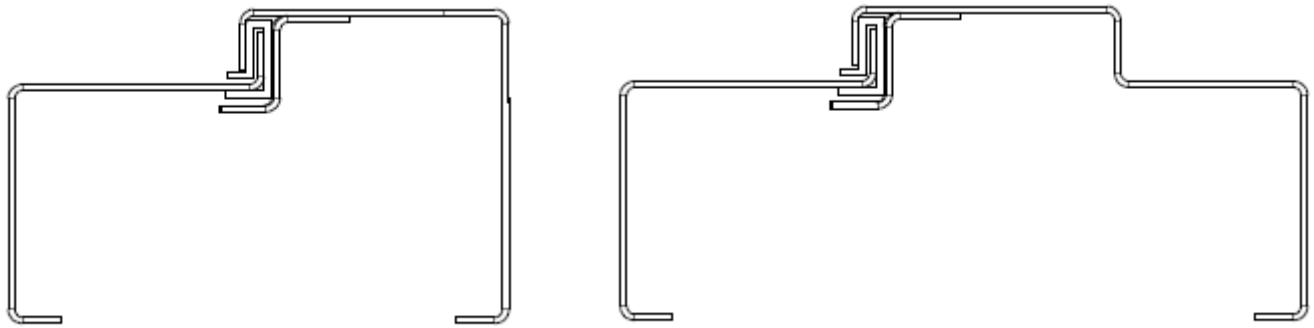
Able to Meet the Following Government Regulations

- Buy America Act (DOT)
- Buy American Act
- Trade Agreement Act
- American Iron & Steel (AIS)

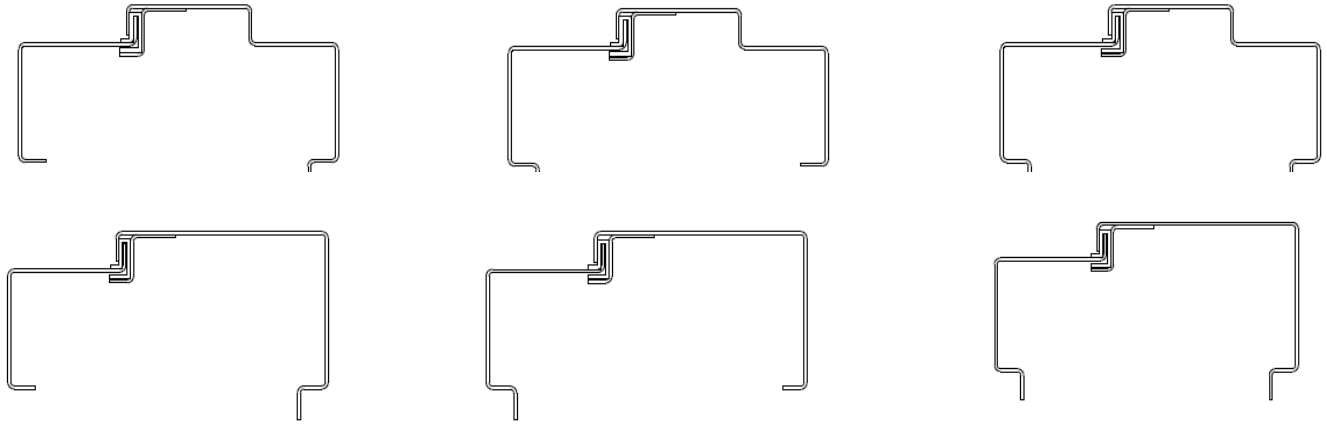
Series Codes
EDGE and OrderPro Ordering

- **Ceco Series Codes**
  - TR3 – Single Rabbet
  - TQ3 - Equal Rabbet / TU3 – Unequal Rabbet
  - TRF – Single Rabbet Stucco Flange
  - TQF – Equal Rabbet Stucco Flange
  - TUF – Unequal Rabbet Stucco Flange

Single and Double Rabbet Profiles



Stucco Flange Profiles



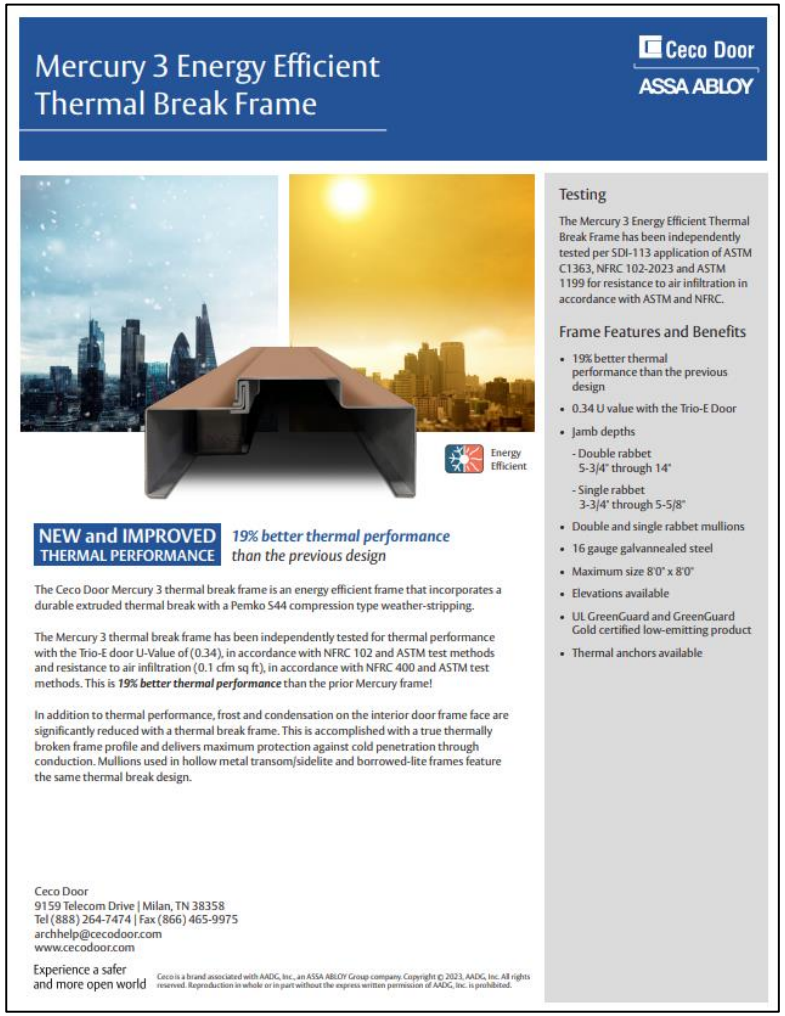
Value Proposition

Benefits

- 19% Better thermal protection than the previous design
- 0.34 U-Value with Trio-E
- High performing thermal and air infiltration ratings helps reduce heat transfer and air leaks which helps to reduce building energy costs and lower cost of ownership
- GreenGuard and GreenGuard Gold certified with other certifications pending
- 16 Gauge, single, double and stucco flange frame profiles to accommodate various wall constructions.
- Manufactured in the USA and can be supplied to meet urgent jobsite demands while able to meet government regulations
- Knocked down or weld with elevation options
- The perfect addition to a sustainably built environment

Tools and Resources

- Fast Facts
- Promotional Sheet
- Infographic
- FAQ’s
- Technical Information
- Energy Efficient Fact Sheet



Mercury 3 Energy Efficient Thermal Break Frame

Ceco Door
ASSA ABLOY

Energy Efficient

NEW and IMPROVED THERMAL PERFORMANCE *19% better thermal performance than the previous design*

The Ceco Door Mercury 3 thermal break frame is an energy efficient frame that incorporates a durable extruded thermal break with a Pemko S44 compression type weather-stripping.

The Mercury 3 thermal break frame has been independently tested for thermal performance with the Trio-E door U-Value of (0.34), in accordance with NFRC 102 and ASTM test methods and resistance to air infiltration (0.1 cfm sq ft), in accordance with NFRC 400 and ASTM test methods. This is ***19% better thermal performance*** than the prior Mercury frame!

In addition to thermal performance, frost and condensation on the interior door frame face are significantly reduced with a thermal break frame. This is accomplished with a true thermally broken frame profile and delivers maximum protection against cold penetration through conduction. Mullions used in hollow metal transom/sidelite and borrowed-lite frames feature the same thermal break design.

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Experience a safer and more open world

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Testing

The Mercury 3 Energy Efficient Thermal Break Frame has been independently tested per SDI-113 application of ASTM C1363, NFRC 102-2023 and ASTM 1199 for resistance to air infiltration in accordance with ASTM and NFRC.

Frame Features and Benefits

- 19% better thermal performance than the previous design
- 0.34 U value with the Trio-E Door
- Jamb depths
  - Double rabbet 5-3/4" through 14"
  - Single rabbet 3-3/4" through 5-5/8"
- Double and single rabbet mullions
- 16 gauge galvannealed steel
- Maximum size 8'0" x 8'0"
- Elevations available
- UL GreenGuard and GreenGuard Gold certified low-emitting product
- Thermal anchors available

Thank you

assaabloydss.com