

Mercury 3 Energy Efficient Thermal Break Frame

Frequently Asked Questions

Q. What is the Mercury 3 Thermal Break Frame?

A. The Mercury 3 Thermal Break Frame is a 16 or 14 gauge energy efficient frame that incorporates a durable extruded thermal break with a Pemko S44 compression type weather-stripping.

Q. What are the main advantages of the Mercury 3 Thermal Break Frame?

A. The Mercury 3 Thermal Break frame contributes to a U-value as low as 0.34 which is 19% better thermal performance than the previous design and provides air leakage performance rates that meet or exceeds ASHRAE 189.1, ASHRAE 90.1, and NFRC standards when tested per ASTM E283.

Q. What are U and R values or factors?

A. R-value is how well a material insulates. The higher the R-value, the better the insulation and the more energy you will save. U-value measures how well materials conduct heat. It is essentially the inverse of the R-value. The U-value measures the rate at which heat transfers through a material over a given area under standardized conditions.

Q. What is ASHRAE 189.1 and 90.1 standards?

A. Standard 189.1 provides total building sustainability guidance for designing, building, and operating high-performance green buildings. ASHRAE 90.1 (Energy Standard for Buildings Except Low-Rise Residential Buildings) is a US standard that provides minimum requirements for energy efficient designs for buildings except for low-rise residential buildings.

Q. What is NFRC?

A. NFRC stands for National Fenestration Rating Council. NFRC was created to provide standardized methods for determining the windows, doors and skylight energy performance. NFRC is not a trade association but a non-profit public/private organization representing broad industry interest. NFRC standards are referenced in ASHRAE 90.1.

Q. What is the energy and air infiltration performance of the Mercury 3 Thermal Break Frame?

A. U-Factor of 0.34 / R-Value of 2.94 with the Trio-E Door when tested per ASTM E283. Air infiltration of 0.1 cfm/ft².

Q. What are the available opening sizes?

A. Up to 5'0" x 10'0" singles and 10'0" x 10'0" pairs maximum size. Elevations are also available.

Q. Can the Mercury 3 Thermal Break Frame be fire rated?

A. No.

Q. How do you order the Mercury 3 Thermal Break Frame?

A. TR3 (single rabbet) TU3 (unequal rabbet) TQ3 (equal rabbet) are the frame profile types for the Mercury 3 Thermal Break Frame. It can be ordered on EDGE and the OrderPro platforms.

Q. Can the Mercury 3 Thermal Break Frame be used in Windstorm assemblies?

A. No.

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