

# Energy Efficient Mercury Door and Frame System

## Frequently Asked Questions

**Q. What is the energy efficient Mercury door and frame system?**

A. The Mercury door and frame system consists of the Mercury door (steel reinforced foamed in place core) and the Mercury Thermally broken frame (bonded thermal break with a Pemko S44 compression type weather-stripping).

**Q. What are the main advantages of the Mercury door and frame system?**

A. The Mercury Door paired with the Mercury Thermal Break frame provides R-value/U-factor and air leakage performance rates that meet or exceeds ASHRAE 189.1, ASHRAE 90.1, and NFRC standards at a lower cost than Trio-E and the riveted thermal break frame design

**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 door and frame system?**

A. U-Factor of 0.37 / R-Value of 2.70 in Mercury thermal brake frame. Air infiltration of 0.10 / Air Exfiltration of 0.10

**Q. Is the Mercury door and frame durable as well as being energy efficient?**

A. Yes. The Mercury door and frame both meet ANSI A250.4 endurance and performance test up to 1,000,000 cycles.

**Q. What are the available opening sizes?**

A. Mercury door up to 4'0" x 9'0" single up to 8'0" x 9'0" pair. Mercury frame up to 8'0" x 8'0" maximum size.

**Q. Can the Mercury door and frame system be fire rated?**

A. No. The Mercury thermal break frame is not fire rated. The Mercury door can be fire rated up to 3 hours with a fire rated frame.

**Q. How do you order the Mercury door and frame?**

A. 797 is the series for the Mercury door and TB is the series for the Mercury frame.

**Q. What hardware can be used with the Mercury door and frame?**

A. All ASSA ABLOY branded hardware can be used.

1502 12th Street NW  
Mason City, IA 50401  
Phone: 641-423-1334  
Fax: 641-424-8305  
www.curries.com