

Energy Efficient Mercury Door and Frame System



Economical Energy Efficient Solution

Mercury Energy Efficient Door

The Mercury Energy Efficient 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, IGCC, ASHRAE 90.1, and NFRC standards while incorporating a new polyurethane foam formulation that is more sustainable. The Mercury door opening solution provides economical energy savings while improving protection of the environment.

Mercury Door Options:

- 18 to 14 gauge cold rolled or zinc coated steel door face sheets
- Steel reinforced foam in place polyurethane core
- Maximum 4'0" x 9'0" singles and 8'0" x 9'0" pairs
- Tested to NFRC/UL thermal and air performance
- U-Factor of 0.37 / R-Value of 2.70 in Mercury thermal break frame
- Air infiltration of 0.10 / Air Exfiltration of 0.10
- Fire rated up to 3 hours UL10C and/or UL10B (with fire rated frame)
- Standard cylindrical, mortise, exit and concealed hardware preps available
- Embossed panel designs available
- UL Environment / GreenCircle certified with EPD/HPDs
- GREENGUARD Gold Certified

Applications:

- K-12
- University
- Healthcare
- Worship
- Government
- Municipality
- Parks and Recreation

Mercury Thermal Break Frame

Pioneer Mercury thermal break frame is an energy efficient frame that incorporates a bonded thermal break with a Pemko S44 compression type weather-stripping. The new frame design is priced up to 10% less than the previous design from the factory and soon will be available for pickup at select ASSA ABLOY regional service centers.

The Mercury thermal break (MTB) frame has been independently tested for thermal performance with the Mercury Door U-Factor of (0.37), in accordance with NFRC 102-2014 and ASTM test methods and resistance to air infiltration with the Mercury Door (0.1 cfm sq ft), in accordance with NFRC 400 and ASTM test methods.

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 new thermal break design.

Mercury Frame Options:

- Double and single rabbet open back profiles
- Double and single rabbet mullions
- 16 and 14 gauge galvanized steel
- Thermal anchors available
- Jamb depths
 - Double rabbet 5-3/4" through 14"
 - Single rabbet 3-3/4" through 5-5/8"
- Maximum size 8'0" x 8'0"

Applications:

- K-12
- University
- Healthcare
- Worship
- Government
- Municipality
- Parks and Recreation

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

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

Pioneer is a brand associated with AADG, Inc., an ASSA ABLOY Group company. Copyright © 2020, AADG, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of AADG, Inc. is prohibited.