

HOLLOW METAL DOORS

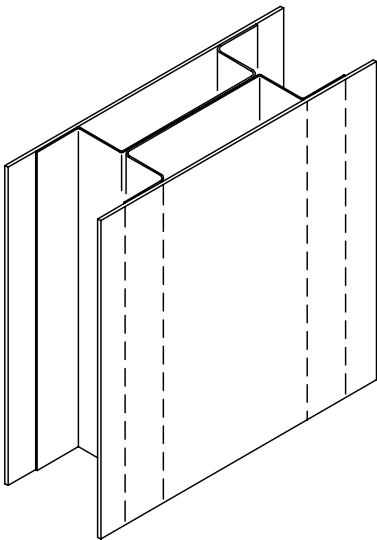
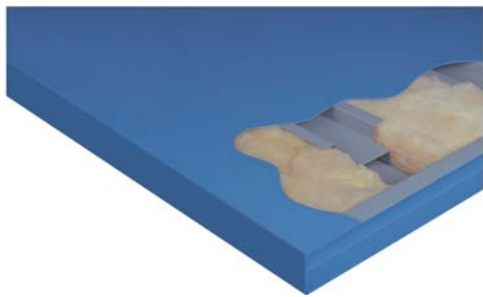
Standard & Custom Engineered Doors

HMD-MED SERIES STEEL STIFFENED DOOR

MDI® HMD-MED Series Doors are available as:

14 Gauge	Extra Heavy Duty
16 Gauge	Heavy Duty
18 Gauge	Medium-Heavy Duty

A Complete line of Doors, Frames & Hardware



The HMD-MED steel stiffened (hat-shaped stiffeners) door series is utilized in such applications where added security is required, without compromise. It's been designed for high frequency, severe traffic openings. This door is available in a variety of sizes, gauges and elevations (Lites & louvers). MDI® offers one of the most comprehensive line-ups of HM door cores...and that includes the HMD-MED series steel stiffened door. This series door is 1 3/4" (45 mm) thick and available in 14, 16, and 18 gauge commercial quality steel and is reinforced to receive architectural hardware in accordance to ANSI A115 standards.

General Specifications

- Door faces are flush design and free of any joints, welds or seams.
- Per NAAMM/HMMA Specifications, some visible spot-welds at steel stiffener locations should be expected. High gloss finishes are not recommended.
- 22 gage steel stiffeners spaced 6" apart, welded to face sheets every 5".
- Vertical edges are butt-seam construction and are fully welded to enhance strength, rigidity and appearance.
- Both door edges are beveled 1/8" (3mm).
- 7 gauge hinge reinforcements are prepared for standard weight 4 1/2" x 4 1/2" (114 mm x 114 mm) hinges.
- Hinge reinforcements can easily be field converted to accommodate heavy weight hinges.
- Door is prime-painted with rust inhibitive primer.
- Fiberglass insulation to limit thermal and sound transmission
- Sound Transmission: STC 38 (18 gauge operable).
- Door conforms to ANSI A250.8-1998 & ASTM A924 & A653.

The MDI® HMD-MED hat-shaped steel stiffened door meets or exceeds the standards set-fourth by ANSI, ASTM, and NAAMM/HMMA.



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▶ MDI® Typical HMD-MED Door Construction

- A. Door face sheets: 14, 16 or 18 gauge commercial quality steel.
- B. Door core: 22 gauge hat-shaped steel stiffeners spaced 6" apart and spot-welded to each face sheet every 5" o.c. with fiberglass insulation in voids between stiffeners.
- C. 7 gauge dual purpose hinge reinforcement. Hinge reinforcements can be easily field converted to accommodate heavy weight hinges.
- D. 16 gauge Inverted top & bottom inverted steel end channels welded in-place. Vinyl cap at top; metal cap at top or bottom (flush and water-tight) are optional.
- E. 14 gauge door closer reinforcement. 12 gauge optional.
- F. 14 gauge lock reinforcement.

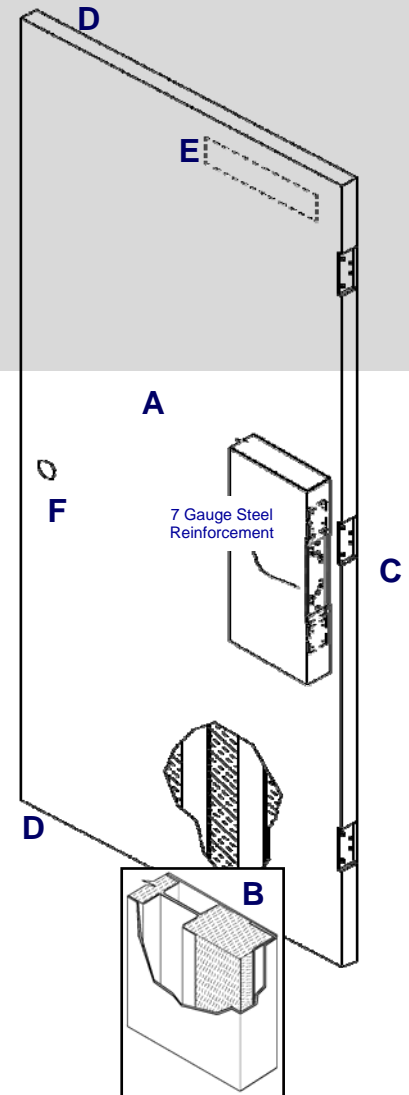
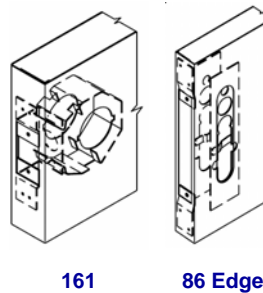
▶ Standard Lock Preps

161: Cylindrical lock reinforcement with added barrel support, projection welded to the door edge, in accordance with ANSI A115.2 requirements.

86 Edge: Mortise lock prep reinforcement box with incorporated lock support, in accordance with ANSI A115.1 requirements.

PR: Rim panic reinforcement for surface mounted exit device application.

Special lock preparations are available. Preps such as, card-key locks, surface vertical rods, concealed vertical rods and multi-point lock systems to name a few.



▶ Fire Labeling

Metropolitan fire labeled steel doors are approved by both Intertek Testing Services (ITS/Warnock Hersey) and Underwriters Laboratories (UL) Fire Labeling programs.* Fire labeled steel doors must be installed with an equivalent fire labeled frame with approved fire listed hardware. Some restrictions do apply.



Fire Labeling Guide for HMD doors by Metropolitan Door Industries

MAXIMUM DOOR OPENING SIZE		
Single: 4'-0" x 9'-0" (WHI)		
Single: 4'-0" x 10'-0" (UL)		
Double Door: 8'-0" x 9'-0" (WHI)		
Double Door: 8'-0" x 10'-0" (UL)		
MINIMUM GAUGE	RATING	ALLOWABLE GLASS AREA
18	1 1/2 Hours	100 in. ² *
18	45 min.	1296 in. ²

🔥 FIRE LABELING NOTICE 🔥

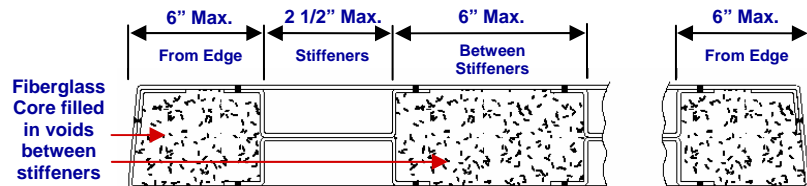
Openings shown above with glass in our Fire Labeling Guide are provisioned for 1/4" thick wire glass. Larger glass openings are available with the use of a fire listed glazing product that meets CPSC CAT II. Some restrictions do apply. Contact our customer service department for details. See pages 30-31 for more information.

* Please note that with the use of a fire listed glazing product that meets CPSC CAT II Metropolitan can provide 3 hour fire rated doors with up to 100 in.² of glass.

Metropolitan is committed to its customers to continuously improve the quality and performance of its products. As a result of this commitment, technical specifications are subject to change without notice.

▶ Door Core

Contact our customer service department for core details, availability and options.*



NOTE: HMD-MED450 fire doors classified for openings rated up to 1-1/2 hours (90 minute) which have 450° temperature rise restrictions. A temperature rise rating is not a requirement for qualification as a labeled fire door, but, when required, doors are built to meet this criteria.

The HMD-MED door series is available as manufactured to have a temperature rise rating. HMD-MED 450° is a temperature-rise rated door which allows the unexposed side of the door to reach a maximum of 450° during the first 30 minutes of testing.

Temperature-rise rated fire doors allow people to pass by the door safely when fire is on the other side. When an opening is required to retard the transmission of heat from one area to an adjacent area, a temperature-rise rated door is required. These doors are typically required in locations such as stairwell access doors, electrical control rooms, paint storage, etc. Temperature-rise designations indicate the maximum rise in temperature above ambient on the non-fire side of the door during the first 30 minutes of exposure in a standard fire test.



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