



COMMERCIAL DOORS, FRAMES, HARDWARE & ACCESSORIES

Since 1972

www.metropolitandoor.com

We're all about doors, frames & hardware





Everything we do at MDI® revolves around the customer. That's our secret at METROPOLITAN. Whether we're working with an architect to help specify the doors, frames & hardware; producing submittal drawings; or delivering your order, we're here to help you make better informed decisions about the openings you need so you do it right the first time. Your project will run smooth with MDI® doors, frames & hardware on the job...which in the end will make a huge difference to you and benefit your bottom line and your customers satisfaction.







You'll get personalized service at every turn.

- A dedicated project manager that will oversee all aspects of the project regarding the doors, frames & hardware.
- The backing of an experienced team like no other with doors, frames & hardware.
- Job specific professional computer generated schedules & drawings.
- Door, frame & hardware specifications.
- Custom door & frame drawings.
- Technical assistance that's second to none!

PERSONALIZED SERVICE ✓ ONE-STOP SOLUTIONS

Metropolitan™ strives to provide the doors, frames and hardware you need; the service you want and the expertise you'd expect from an industry professional.

- Standard & custom engineered doors & frames...in any quantity.
- Configuration and coordination.
- Large inventory & on-time delivery.
- Custom fabrication.
- Brand name products.
- Capabilities and resouces to broaden your door, frame and hardware purchasing.
- Hardware Applied Services. A turn-key solution from MDI® to keep your project on schedule and within budget.

✓ A RELIABLE RESOURCE

Metropolitan™ can be a valuable part of your team. Think of MDI® more as a business partner rather than just a vendor.

- A factory authorized distributor of most brand names in hardware and accessories.
- One of the most aggressive testing procedures in the industry.
- A Door and Hardware Institute (DHI) corporate manufacturer member.
- A privately owned and dedicated company since 1972.
- A UL, WHI & NYC MEA listed company.



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ABOUT METROPOLITAN



Metropolitan Door Industries is committed to providing unparalleled quality, engineering, and innovation in supply of value-added doors, frames, hardware and specialty building products ~ serving discerning customers with the utmost integrity and professionalism, since 1972.

Metropolitan Door empowers its customers to manage their jobs and projects more efficiently by offering the complete package solution of doors, frames and hardware. Now in its 4th decade in business and second generation of ownership (since 1992) Metropolitan has one of the most diverse product lines in the industry. Our door & frame systems can add value to your jobs & projects and positively affect your bottom line.

We have a large variety of inventory and custom engineered options for our commercial doors & frames. Our product line does not stop with hollow hollow metal doors & frames...we also have wood doors & frames, fiberglass doors & frames, access doors, brand name contract & builders hardware, including double acting traffic impact doors, washroom accessories and bathroom partitions.



Since the company's inception in 1972, MDI® has developed into a highly reputable company known for paying attention to detail and delivering products and service with the utmost quality. To maintain our commitment to excellence, we have invested extensively into our personnel, machinery, equipment, network & information systems, our facility and research & development. This commitment has made Metropolitan Door Industries a favorite among our customers.

Just as our products are an integral part of who we are, so are our employees and the customers we serve. Understanding our customers and their needs, improves customer and employee satisfaction and enhances experiences throughout the company, at all levels. Professional service, quality and reliability are the components and commitment that make up the foundation that Metropolitan™ is built on.

Our staff has decades of experience in the manufacturing, assembly and distribution processes of architectural and commercial grade doors, frames and hardware. The staff at Metropolitan™ are committed to providing you with stock and custom fabricated material within the shortest possible lead-time, without compromising quality. *Our dedication to providing quality products and service starts the moment you hear the word "Metropolitan" on the telephone and extends far beyond the delivery of your order.* To support our commitment, Metropolitan adheres to the principles and recommendations of the National Association of Architectural Metal Manufacturers (NAAMM) and its division Hollow Metal Manufacturers Association (HMMA), the company is a corporate manufacturer member of the Door and Hardware Institute (DHI) and MDI is licensed by UL and WHI laboratories.

OUR PRODUCT PORTFOLIO

Our expansive product line includes all components in and around the door opening.

Doors and Frames: Steel, wood, fiberglass and aluminum.

Access Control and Egress Hardware: Mechanical and electromechanical cylinders and locks,

access control locks, electric strikes, exit devices, and power supplies.

Door Controls: Closers, overhead stops, holders and automatic operators.

Accessories: Hinges, pivots, flatgoods, door trim, weatherstripping, thresholds, lites and louvers.

Access Doors: Metal, aluminum, fire rated, insulated, & GFRG access doors.

Specialty Doors and Frames: Bullet resistant, blast resistant, windstorm, STC (acoustical), & double acting.

Specialty Products: Washroom accessories, bathroom partitions, double acting traffic impact doors, wall

louvers & fire extinuishers and cabinets.

Glazing: Standard safety, tempered & wire glass; fire rated/safety rated clear ceramic glazing & insulated glass.

In addition to one of the broadest product lines in the industry, our services also include:

- Project management and consultation; take-offs, estimating; tagging & bundling;
- Computerized shop drawings, schedules catalog cuts & technical drawings, as required.
- Complete labeling service with certifications by WHI, UL and NYC MEA. Delivery
- coordination to your warehouse or the jobsite; &
- Drop-shipments directly to your customer are available.







MARKET DIVERSITY



At Metropolitan Door Industries Corp. we have applied our knowledge and support across multiple market segments. We work closely with our partners to make sure that each of our customers are provided with solutions that meet their specific needs. Our entire team is well prepared to assist with your market specific issues.

Our market diversity is demonstrated through supplying products in the following market segments:

FACILITY TYPE:

- ▶ Architectural
- ▶Commercial/Retail
- ▶Industrial/Warehouse
- ▶Office Spaces
- ▶ Hospitals/Healthcare Facilities
- ▶K-12 Education
- ▶Colleges & Universities
- Transportation
- ▶ Hospitality/Entertainment Venues
- Assisted Living
- Corporate Campus
- ▶Banking/Financial
- Government/Military

MARKETS:

- ▶Amusement Park
- **▶**Casinos
- ▶ Convenience Stores & Gas Stations
- Car Wash
- **▶**Coastal
- ▶Food Processing/Service
- Supermarkets
- **▶**Military
- **▶**Utilities
- ▶Industrial/Warehouse Distribution
- ▶Waste Water
- ▶Zoos/Aguariums
- ▶ Manufacturing/Chemical Manufacturing

Paying attention to detail from start to finish.

Today's marketplace requires solutions for many different and complex applications.

Our team at Metropolitan Door is available to help our customers work through and make important decisions about the products that are the best fit for their application needs. Our professionals can provide custom solutions in wood & hollow metal doors & frames, access doors/panels, washroom accessories, handicap accessibility, contract hardware and access control to meet your everyday requirements.

As we move forward the Metropolitan brand is becoming a more trusted source that architects, construction specifiers and various industry professionals have come to rely on. The Metropolitan name is specified more today than ever before on a variety of projects around the country for a multitude of applications, security and safety concerns. Contact us today so we can work with you to provide you with solutions for all your design needs.

NOTABLE PROJECTS

Metropolitan has an endless list of customers and projects that goes on for decades. It is our belief that's it's our commitment to paying attention to detail from start to finish and our drive to sell a better quality product and service that keeps our customers with us every step of the way.

- Westhampton Beach Village Hall, West Hampton, NY
- Children's Museum of the East End, Bridgehampton, NY
- Lancaster Arts Hotel, Lancaster, PA
- The National Institute of Health, Bldg. 33, Bethesda, MD
- Jared Jewelry Stores, Various locations across the US
- Midwood Ambulance, Midwood, NY
- Coach, West 34th Street, New York, NY
- Northeastern Aviation, Republic Airport, Farmingdale, NY
- First Aviation, Teterboro Airport, Teterboro, NJ
- The Watermill Center, Southampton, NY
- The Hagedorn Little Village School, Hicksville, NY
- Monty's Stone Crab & Seafood Restaurant, Coconut Grove, FL
- Safeguard Self Storage, Bronx, Brooklyn, & Long Island, NY
- SCO Family of Services Learning Center & School, Sea Cliff, NY
- Arizona Iced Tea Co, Woodbury, NY & Edison, NJ
 Longwood Public Library, Middle Island, NY
- West Islip Public Library, West Islip, NY
- Babylon Public Library, Babylon, NY
- Winston Prep School, Norwalk, CT & Whippany, NJ
- · Academy of St. Joseph, New York, NY
- Avery Fisher Hall NY Philharmonic, New York, NY
- Santorini Beach Club, Cutchogue, NY
- Camp Arifjan, United States Military, Kuwait
- Brooks Brothers, Corp HQ, New York, NY
- The Amber Court Assisted Living, Westbury, NY
- The Southampton Inn, Southampton, NY
- Farmland Dairy Corporate HQ, Wallington, NJ
- Industry City Various Buildings, Brooklyn, NY

- Audi of Turnersville, Turnersville, NJ
- Lexus of Edison, Edison, NJ
- Westbury Toyota, Westbury, NY
- Ferrari Maserati, Edison, NJ
- Competition BMW, Smithtown, NY
- BMW of Tenafly, Tenafly, NJ
- Port Chester BMW, Port Chester, NY
- Jaguar Land Rover of Darien, Darien, CT
- · Mercedes-Benz of Hungtington, NY
- Mercedes-Benz of Greenwich, Greenwich, CT
- Rallye Mercedes, Roslyn, NY
- Mercedes-Benz of Nanuet, Nanuet, NY
- Eagle Auto Mall, Riverhead, NY
- Lifetime Fitness, Syosset, NY
- LA Fitness, Garden City Park, NY
- Vera Wang Soho, New York, NY
- Dolce & Gabbana NYC HQ, New York, NY
- Versace, Dallas, TX
- DGA Security Systems, Corp HQ, New York, NY
- Eastern Effects Studios, Brooklyn, NY
- Silver Cup Studios, Bronx, NY
- Vital Farms, Springfield, MO
- · Vanderberg AFB, Santa Barbara County, California
- Bank of America, Various Locations
- Long Island National Cemetary, Farmingdale, NY
- Sag Harbor Village Police Dept., Sag Harbor, NY





HOLLOW METAL DOORS



Flush Hollow Metal Doors

Honeycomb, Polystyrene & Polyurethane Insulated, Temperature Rise Rated & Steel Stiffened





Metal Doors w/ Glass

With lite kit and glass; various sizes and types available; a full line of glass types are available



Steel Fire-Rated Doors

45 min, 90 min & 3 Hour MDI is WHI & UL Licensed Most elevation designs available



Metal Doors w/ Louver Kits

Louver vent inserts, fire rated & nonrated; with built-in screens available; A variety of louver sizes are available



Embossed Metal Doors

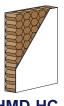
6-panel, 2-panel & 1-panel design steel doors



SW Series HM Doors

Simulated Wood Finished HM Doors A large variety of finishes are available Contact us for our SW Series brochure

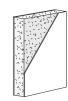
AVAILABLE DOOR CORES & GAUGES



HMD-HC Honeycomb Core

HMD-TR

Temperature Rise Rated



HMD-PS Polystyrene Insulated

HMD-S

Channel-Shaped Steel Stiffened w/ HC, PS or PU core in Voids



HMD-PU Polyurethane Insulated



HMD-MED

Medallion Series Hat-Shaped Steel Stiffened w/ Loose Batt Insulation

STEEL GAUGES:

Doors available in 20, 18, 16 & 14 Gauge

STEEL TYPES:

A40, A60, and G90 Galvanized; & Stainless Steel (Type 304 & Type 316)

AVAILABLE FIRE RATINGS:

45 min, 90 min, 3 hours







888-MDI-DOOR (888-634-3667)

TYPICAL HM DOOR CONSTRUCTION

MDI® HMD Series Doors are available as: 14 Gauge Extra Heavy Duty

16 Gauge Heavy Duty

18 Gauge Medium-Heavy Duty 20 Gauge Medium-Standard Duty

All of the Metropolitan HMD door series are available in a variety of sizes, gauges and elevations (Lites & louvers). MDI® offers one of the most comprehensive line-up of HM door cores. We have standard, ready-to-ship products as well as the capability to custom engineer your doors to meet your specifications. Standard doors are available as 1 3/4" (45 mm) thick and are available in 14, 16, 18 and 20 gauge commercial quality (A40 galv.) steel and are reinforced to receive architectural hardware in accordance to ANSI A115 standards.

Steel doors are also available in stainless steel, lead-lined (X-ray) and G90 galvanized material. Bullet resistant, Blast Resistant, STC (acoustical), Forced Entry and Attacked Resistant door & frame systems are also available.

GENERAL HM DOOR SPECIFICATIONS:

- Door faces are flush design and free of any joints, welds or seams.
- Vertical edges are interlocked with a mechanical seam and reinforced with an epoxy resin, high vicosity, thicksotropic sealant. Seamless edges are option.
- Both hinge and lock edges are beveled 1/8" (3mm). Square edge is optional.
- Hinge reinforcements are prepared for standard weight 4 1/2" x 4 1/2" (114 mm x 114 mm) hinges. Other hinge sizes and preparations are available.



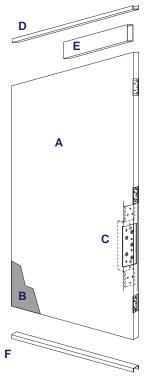


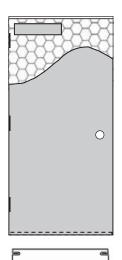
MDI® TYPICAL HM DOOR CONSTRUCTION

- A. Door face sheets (A40 galv., stainless steel or G90 galvanized).
- B. Door core: Honeycomb, polystyrene, polyurethane, temperature rise or steel stiffened.*
- **C.** 10 gauge high frequency dual purpose hinge reinforcement with return bend for added strength and rigidity. Hinge reinforcements can be easily field converted to accommodate heavy weight hinges. 7 gauge hinge reinforcements are optional.
- **D.** 18 gauge inverted top channel projection welded to the door skins and tack weld at each corner for added rigidity. Vinyl cap at top; or metal cap at top (flush and water-tight) are optional.
- E. 18 gauge door closer reinforcement box style.
- **F.** 18 gauge inverted bottom channel projection welded to the door skins and tack weld at each corner for added rigidity. Metal cap at bottom (flush and water-tight) is optional.
- * HMD-MED door series has many standard features that are optional on other doors (7 gauge hinge 14 gauge closer reinforcement, and welded seamless edge & and prime-painted.

 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.

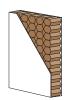


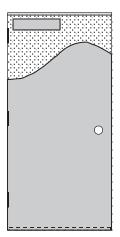




HMD-HC HONEYCOMB

- Interior and exterior use.
- The most economical core in the industry.
- Structural 1" (25 mm) hexagonal cells. 80 lb (36 kg) Per Ream. 1.03 PCF (16 kg/m3). Impact resistance is estimated at: 45 PSI. Core is permanently bonded to face sheets with heat resistant, structurally reinforced, resin-based epoxy adhesive.
- 1 3/4" thickness (standard).
- Interlocked edge seams (lockseam). Welded seamless is optional.
- 18 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) and vinyl top cap is optional.
- Beveled hinge and lock edges.
- A40 galv. steel is standard. G90 and stainless steel is optional.
- High frequency hinge reinforcements are standard on stock doors.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 20, 18, 16 and 14 gauge.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- · Fire labeling: WHI and UL.
- Custom engineering is available.
- · Standard on all stock sizes.

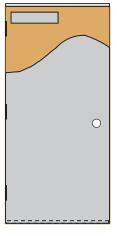




HMD-PS POLYSTYRENE INSULATED

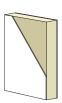
- Interior and exterior use (primarily used on exterior applications).
- The most popular insulated core in the at MDI[®].
- Rigid extruded fire retardant, closed cell board. Density; 1 to 2 PCF (16 to 32 kg/m3), thermal performance: R-value = 7.0 min. Core is permanantly bonded and adheres 100% to the face sheets.
- 1 3/4" thickness (standard).
- Interlocked edge seams (lockseam). Welded seamless is optional.
- 18 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) & vinyl top cap is optional.
- Beveled hinge and lock edges.
- A40 galv. steel is standard. G90 and stainless steel is optional.
- High frequency hinge reinforcements are standard on stock doors.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 20, 18, 16 and 14 gauge.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- Fire labeling: WHI and UL.
- Custom engineering is available.
- · Stock on some sizes. Special order on all other sizes.



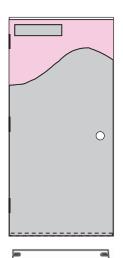


HMD-PU POLYURETHANE INSULATED

- Interior and exterior use (primarily used on exterior applications).
- This is our core with the highest insulating value at MDI[®].
- Rigid, modified polyisocyanurate, closed cell board. Density; 2.0 PCF (32 kg/m3) min., thermal performance: R-value = 12.25 min. Core is permanantly bonded and adheres 100% to the face sheets.
- 1 3/4" thickness (standard).
- Interlocked edge seams (lockseam). Welded seamless is optional.
- 18 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) and vinyl top cap is optional.
- Beveled hinge and lock edges.
- A40 galv. steel is standard. G90 and stainless steel is optional.
- High frequency hinge reinforcements are standard on stock doors.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 20, 18, 16 and 14 gauge.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- Fire labeling: WHI and UL.
- · Custom engineering is available.
- Special order on all sizes.

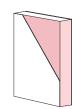


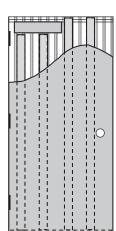




HMD-TR TEMPERATURE RISE (MINERAL)

- Interior use only.
- Core composition (mineral board) to limit the temperature rise on the unexposed side of door to 250°F at 30 minutes or 450°F at 60 minutes, as determined by governing building code requirements. Core was tested as part of a complete door assembly, in accordance with ASTM E-152 or NFPA 252, covering the Standard Method of Tests of Door Assemblies & shall be listed by a nationally recognized testing agency having a factory inspection service.
- 1 3/4" thickness (standard).
- Interlocked edge seams (lockseam). Welded seamless is optional.
- 18 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) and vinyl top cap is optional.
- Beveled hinge and lock edges.
- A40 galv. steel is standard. G90 and stainless steel is optional.
- High frequency hinge reinforcements are standard on stock doors.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 20, 18, 16 and 14 gauge.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- · Fire labeling: WHI and UL.
- Custom engineering is available.
- Special order on all sizes.





HMD-S CHANNEL-SHAPED STEEL STIFFENED

- Interior and exterior use
- Doors shall be reinforced with internally with (channel-shaped) vertical steel stiffeners (20 gauge) and the
 voids between each stiffener shall be filled with one of the following cores: Honeycomb; Polystyrene;
 Polyurethane or Fiberglass (see each core detail).
- 1 3/4" thickness (standard).
- Interlocked edge seams (lockseam). Welded seamless is optional.
- 18 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) and vinyl top cap is optional.
- Beveled hinge and lock edges.
- A40 galv. steel is standard. G90 and stainless steel is optional.
- High frequency hinge reinforcements are standard on stock doors.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 20, 18, 16 and 14 gauge.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- Fire labeling: WHI and UL.
- Custom engineering is available.
- Special order on all sizes.





- Interior and exterior use.
- Designed for high frequency, severe traffic openings.
- Fully welded seamless design.
- The HMD-MED Series door is manufactured with "hat-shaped" vertical steel stiffeners (22 gauge is standard), spaced 6" (max.) on-center and spot-welded 5" on-center (with loose-batt type insulation in the voids). The edges of the door are fully welded seamless to enhance strength, rigidity and
- appearance. Door is prime painted with a commercial quality rust inhibitive primer. Primer conforms to ANSI A250.10. 1 3/4" thickness (standard); 2" thick is optional.
- 16 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) and vinyl top cap are optional. Beveled hinge and lock edges.
 - CRS steel is standard. A60 and G90 steel is optional.
- 14 gauge closer reinforcement is standard; 11 gauge is optional.
- 7 gauge hinge reinforcements are standard.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 18, 16 and 14 gauge.
- Flush molding glass trim kit is a custom option.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- Fire labeling: UL.
- Meets ANSI A250.4 Performance Test Level A (1,000,000 Cycles) Custom engineering is available.
- Special order on all sizes.





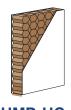


6-PANEL, 2-PANEL & 1-PANEL DESIGN

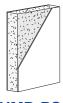


HMD-EMB EMBOSSED PANEL HM DOORS

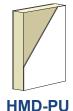
- Interior and exterior use.
- Available as 6-panel and 2-panel design.
- Available with our three of our standard cores: honeycomb, polystyrene and polyurethane.
- 1 3/4" thickness (standard).
- Interlocked edge seams (lockseam). Welded seamless is optional.
- 18 gauge top and bottom end channels. Flush cap at top or bottom (water-tight) and vinyl top cap is optional.
- Beveled hinge and lock edges (square edge is optional).
- A40 galv. steel is standard.
- High frequency hinge reinforcements is standard on stock doors.
- Hinges can be easily field converted to accommodate heavy weight hinges.
- Available in 20, 18. Some restrictions door apply.
- Fire rating: 3/4, 1 1/2, or 3 hours available. Some restrictions do apply.
- Fire labeling: WHI and UL.
- Custom engineering is available.



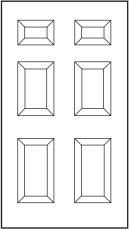
HMD-HC
Honeycomb Core



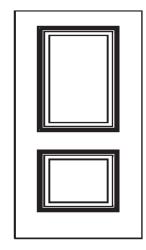
HMD-PS
Polystyrene Inuslated



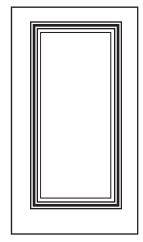
Polyurethane Insulated



Typical 6-Panel Embossed Raised Panel



High Definition 2-Panel Embossed Raised Panel



High Definition 1-Panel Embossed Raised Panel

NOTE: Embossed designs are not to scale and are for illustration purposes only.



HMD FEATURES / OPTIONS

COMMON FEATURES & OPTIONS

DOOR EDGE:

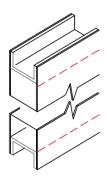


Lockseam Edge Mechanically interlocked edge seam

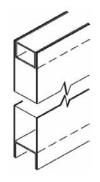


Seamless Edge Welded every 2-3 inches dressed smooth with Bondo

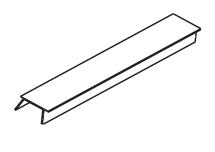
END CHANNELS:



Typical Inverted End ChannelsTop & bottom - standard

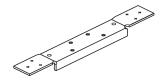


Optional: Steel Cap Top, bottom or both. Water-tight capping is also optional

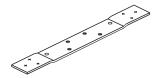


Extruded Vinyl Cap Top only

HINGES:



10 Ga High Frequency Hinge Reinf. Standard weight (.134) hinge reinf w/ return bend



7 Ga Hinge Reinf.

- Other hinge options are available. Contact MDI for details.
- Standard hinge reinforcements can accommodate heavy weight (.180) hinges via field modification.

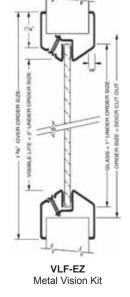
- LITES & LOUVERS:



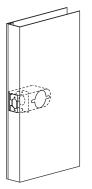
800-A1 //etal_Louver



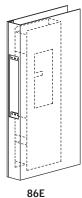
1900-A Metal Fusible Link Louver Kit



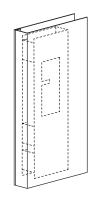
LOCK PREPS:



161 Single bore

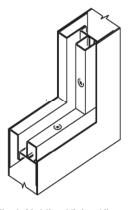


Mortise edge pocket



PR - No C/O Rim panic reinf.

- Other lock options are available. Contact MDI for details.



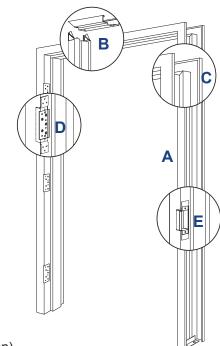
Flush Molding Vision Kit HMD-MED only (Custom)

- Other lite & louver styles are available. Contact MDI for details.



HOLLOW METAL FRAMES

Metropolitan Door offers a full range of steel frames in standard or custom sizes and profiles. Steel frames are available for dry wall or masonry applications in 12, 14, 16, and 18 gauge for 1 3/4 in. (45 mm) doors and in 22 gauge for 1 3/8 in. (35 mm) doors. All standard frames are manufactured from A40 galvannealed steel and are reinforced to receive specified architectural hardware in accordance to ANSI A115 standards. Frames are also available in stainless steel, lead-lined (x-ray), G90 galvanized steel and stainless steel (types 304 & 316 x # 4 and # 8 finishes. MDI® also offers a full line of adjustable throat frames and frames with thermal break for cold climate applications.



Typical 3-Sided **HM Frame**

Also available from MDI[®]

4-Side Frames, Transoms, Sidelights & Borrowed-Lite Window Frame Elevations

HM FRAME TYPES

Knock-Down (KD) Welded (WF) KD Adjustable (KD-ADJ) KD Slip-On (KD-SOF) Kerfed HM Frames (KRF) Thermal Break Frames (TB)

FIRE RATINGS

45 min, 90 min & 3 Hour MDI is WHI & UL Licensed A: HM frame by MDI.

B: KD (Knock-Down) Corner Section.

C. WF (Welded Frame) Coner Section.

D: High frequency hinge reinforcement.

E: Strike Box reinforcement.

F: Typical floor anchor (new construction).

STOCK FIXED THROAT SIZES:

3 3/4", 4 7/8, 6 1/8", 7 3/4"

STOCK ADJ THROAT SIZES:

SMALL: ADJ-47: 4 1/2" - 7 3/4" throat LARGE: ADJ-711: 7 1/2" - 12 1/4" throat

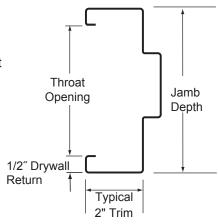
STEEL TYPES:

A40, A60, and G90 Galvanized; & Stainless Steel (Type 304 & Type 316)

Please note that MDI® ADJ & SOF frames can be fire labeled up to 90 minutes B-label.

STANDARD FRAME PROFILE

Other profiles are available



FRAME OPTIONS:

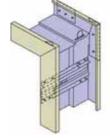


Hospital Stop

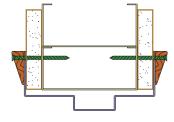








ADJUSTABLE THROAT KDF ADJ-47 & ADJ-711



SLIP-ON-FRAME (SOF) Fixed or Adjustable Throat

A variety of frame profiles & wall anchors are available and custom engineered frames are available. Contact our office for details.

Metropolitan supplies its welded frames with tempoary spreaders which are tack-welded to the bottom of each jamb. These spreaders are not to be used for aligning the frame during installation. The sole pupose of the spreaders are to maintain proper alignment during shipment only. Spreaders are to be removed prior to installation.



ADJ SERIES CONSTRUCTION & DETAILS

ADJ-47: 4 1/2" - 7 3/4" Throat ADJ-711: 7 1/2" - 12 1/4" Throat

Metropolitan Door Industries offers a full range of standard and custom hollow metal frames in various sizes and profiles. One of our most popular frames is the Adjustable Profile. It's like having multiple frames in one!

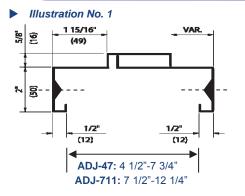
Our Adjustable Knock-Down Frame is available in two throat sizes:

ADJ-47: Adjusts from 4 1/2" - 7 3/4" throat size*
ADJ-711: Adjusts from a 7 1/2" - 12 1/4" throat size.*
See Illustration No. 1.

 MDI^{\circledR} frames are prepared for use with 1 3/4" (45 mm) thick doors. All standard frames are manufactured from commercial quality (A40 galv.) steel and are reinforced to receive architectural hardware in accordance to ANSI A115 standards. Some restrictions do apply. Contact our office for more details.

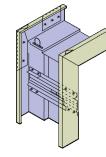
Adjustable Frame Specifications:

- 16 gauge A40 galv steel.
- · Knock-down (KD) construction only.
- Hinge jambs are prepared and reinforced to receive 4 1/2" x 4 1/2" (114 mm x 114 mm) butt hinges.
- Hinge reinforcements can easily be field converted to accommodate heavy weight hinges.
- Strike jambs are prepared and reinforced to receive one standard 4 7/8" (124 mm) strike in accordance to ANSI A115.1.
- 2" face (or trim) dimension is standard on all MDI® frames.
- Hinge jamb, strike jamb, and head are "punched & dimpled" through the face
 of the frame for installation (installation screws by others). See Illustration
 No. 1 and No. 2.
- Adjustable frames can be custom ordered as No Return Bend (Slip-On Type); therefore the frame will sit flush on the wall surface so the GC can install wood trim molding. Slip-On frames will be "punched only" on the face for installation and not "dimpled." Slip-On Frames are available as fixed throat (SOF) and Adjustable Throat (ADJ-SOF). Contact our office for Slip-on Type Frames.
- * All of our standard frames use 1/2" return bend profiles; therefore the jamb depth size is 1" larger then the throat; except on "Slip-On" type frames (SOF). To calculate the jamb depth on a Slip-On frame, it's the "throat size plus the gauge (thickness) of the steel."

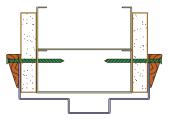


Typical "Punch & Dimple" installation hole preps...on inside and outside of frame. Installation screws supplied by others.

Please note that MDI® Adjustable frames can be fire labeled up to 90 minutes B-label.



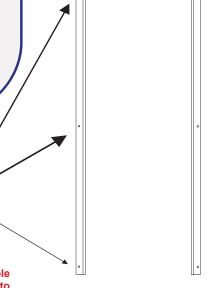
ADJ PROFILE VIEW OF THROAT WITH BRACKET Shown w/ 1/2" Return Bend



SLIP-ON-FRAME (SOF)
PROFILE VIEW OF THROAT
AROUND DRYWALL

Shown as Fixed throat and also available as adjustable

Illustration No. 2

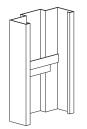




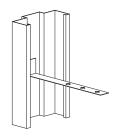
MDI® HM FRAME WALL ANCHORS

MDI has a full ine of wall anchors available for new and existing wall construction. If you don't see an anchor below that will meet your application, please contcat our office and discuss your requirements.

MOST POPULAR:



DWZ Metal Stud Drywall New Construction



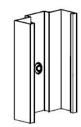
MAS Masonry Strap New Construction



TS
Tension Screw/Pressure-Fit
Standard on Knock-Down

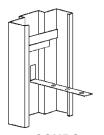


EMA - Bolt-in
Existing Masonry Anchor
with Reinforcement



EMAO - Bolt-in
Existing Masonry Anchor
No Reinforcement

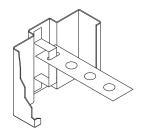
SPECIAL APPLICATION:



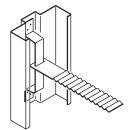
COMBO DWZ & MAS New Construction



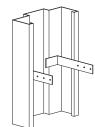
MWA
Masonry Wire Anchor
New Construction



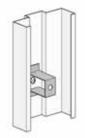
AMA
Adjustable Masonry
Strap - Perforated
New Construction



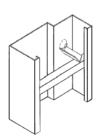
YS
Yoke & Strap Corrugated New
Construction



SA Strap Anchor Wood Stud



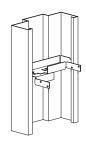
EON - Bolt-in
Existing Masonry



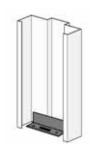
EMAHBExisting Masonry
Hidden Bolt



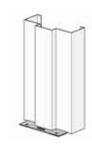
MTA
Masonry "T"
New Construction



AA Adjustable Anchor Wood Stud



FA
Floor Anchor
New Construction



RFAReverse Floor Anchor
Existing Construction

NOTE:

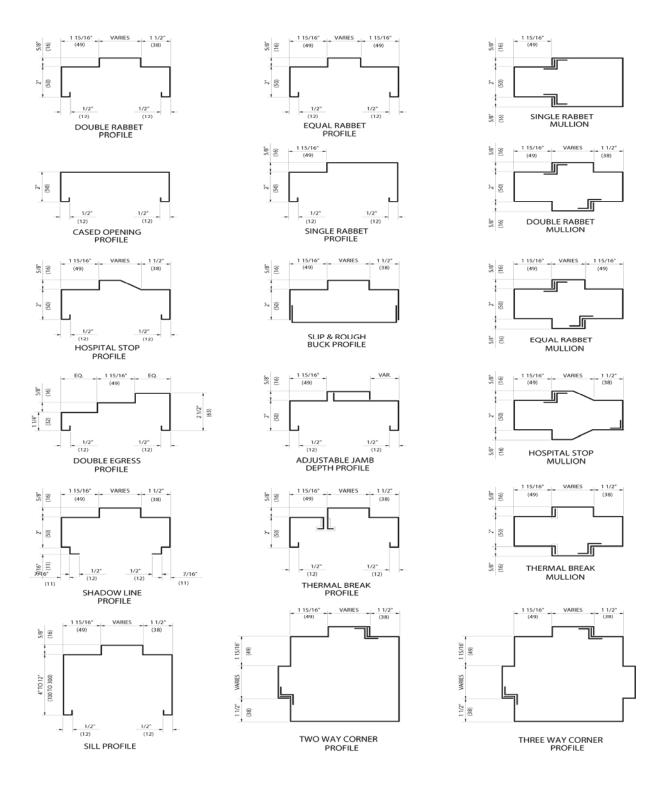
- Metropolitan supplies its welded frames with tempoary spreaders which are tackwelded to the bottom of each jamb. These spreaders are not to be used for aligning the frame during installation. The sole pupose of the spreaders are to maintain proper alignment during shipment only. Spreaders are to be removed prior to installation.
- Custom engineered frames are available.





HM FRAME PROFILES

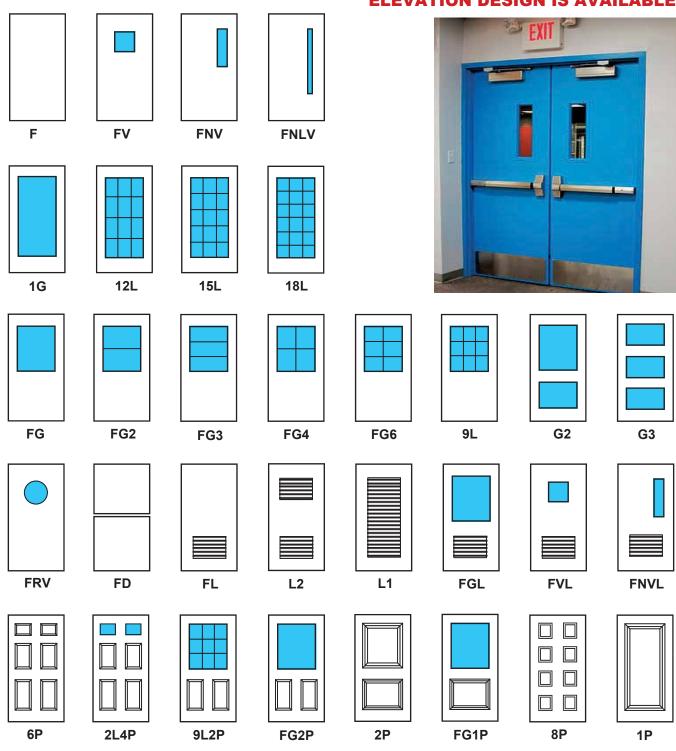
Standard & Custom Engineered



Frame profiles are samples of what can be manufactured. The possibilities are almost endless. Other designs are available. Please contact our customer service department to see other profile designs or if you have a custom design you want made.



ALMOST ANY DOOR ELEVATION DESIGN IS AVAILABLE





MDI can provide a full line of vision kits, glass and louvers for our doors & frames. Please contact our office with your specs and details to discuss your project.

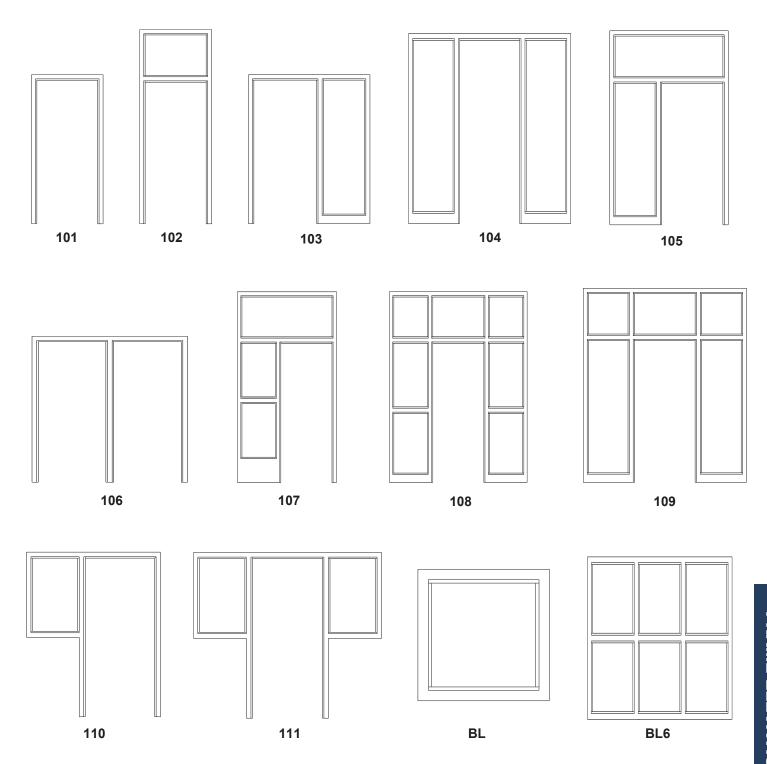
The above door elevations are samples of what can be manufactured. If you have a custom design please contact our customer service department for details and information. Elevation names are for informational purposes only. They can be changed per job, per order as required to conform to architect or owners request.

Above elevation designs are are not available in all door series, material or types. Some restrictions do apply. Contact our office for more details.



FRAME ELEVATIONS

3-SIDED, 4-SIDED, SIDE-LIGHTS, TRAMSOMS & BORROWED-LIGHT WINDOWS



The above frame elevations are samples of what can be manufactured. If you have a custom design please contact our customer service department for details and information. Elevation names are for informational purposes only. They can be changed per job, per order as required to conform to architect or owners request.





Solid Core (PC)

Solid particle core available in Birch, Oak and a variety of wood veneers



Solid Core (SCL)

Structural composite lumber core available in Birch, Oak and a variety of wood veneers



Fire Rated Wood Door

20 min, 45 min, 60 min, 90 min fire ratings available



Lead Lined Wood Door

Lead-lined wood doors available in Birch, Oak and a variety of wood veneers



Plastic Laminate Wood Doors

Availble in a variety of laminates from various manufacturers, including the legendary Thermal Fused laminate door.



MDF Panel Doors

Hundreds of panel designs & profiles available. 20, 45, 60 & 90 minute fire rated also available.









Natural Birch Rotary Cut



White Birch Rotary Cut



White Ash Plain Sliced



Red Oak Plain Sliced



Red Oak Rift Cut



White Oak Plain Sliced



White Oak Rift Cut



Cherry Quartered



Cherry Plain Sliced



Natural Bamboo Flat Grain



Amber Bamboo Flat Grain



Anigre Quartered



White Maple Quartered



White Maple Plain Sliced



Walnut Plain Sliced



Mahogany Quartered



Mahogany Plain Sliced



MDF Primed-Painted White

MDI wood doors are available in stain grade, paint grade, factory prefinished or unfinished. Please contact our office for details or to obtain a quotation on your project.

Above are sample images of popular veneer species/finishes. Not all are stock. Special orders are available. Actual product appearance and finish may vary from images shown above.



STAINLESS STEEL DOORS & FRAMES



MDI offers a full line of stainless steel doors and frames for a wide range of applications: from highly corrosive or clean room environments such as waste water treatment plants, laboratories, hospitals and food processing plants to aesthetically appealing building lobbies or locations. A variety of sizes and configurations are available.

When stainless steel doors and frames are required, MDI works closely with architect's and designers to produce openings that are as functional as they are beautiful. Whether your project calls for aesthetics or high performance in corrosive or laboratory environments, we have the experience to turn your vision into reality.

STAINLESS STEEL FEATURES:

- Type 304 most commonly used SS alloy
- Type 316 extreme corrosive environments
- #4 Brushed Satin Finish
- #8 Polished Mirror Finish
- 2B Mill Finish (use for reinforcements)
- Honeycomb core, polystyrene, polyurethane
 & steel stiffened cores available
- · All stainless steel internal components
- Visible lockseam and seamless edge options





#4 Satin

Finsih









Note:

When a finish, such as No. 4 is specified, the "grain" on the face of the door jambs and head is in a vertical direction to present a uniform visual appearance.

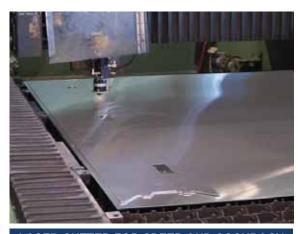
Finish

Non-Directional Finish on 2B

Bead Blasted Finish on 2B

Random Swirl Finish

ALL COMPONENTS ARE STAINLESS STEEL



LASER CUTTER FOR SPEED AND ACCURACY

Facility Types & Applications for our Stainless Steel doors & frames:

- Commercial
- Corporate
- Education Public & Private
- Hospitality
- Religeous
- Medical/Healthcare
- Government
- Coastal Areas

- Research Laboratories
- Sanitation
- Food Processing
- Water Treat Processing
- Refineries
- Hi-End/Luxury Architectural Environments
- Chemical Plants
- Pulp and Paper Mills







MP

888-MDI-DOOR (888-634-3667)

SPECIALTY OPENINGS

FIBERGLASS DOORS & FRAMES

Typical Applications for Commercial FRP Products

- Municipal/Industrial Water and Wastewater Treatment
- Chemical Manufacturing, Processing and Storage
- Pulp and Paper Operations
- Pharmaceutical Production, Transportation Systems
- Educational/School Facilities
- Gas, Oil & Mineral Mining and Refining Systems Research
- Laboratories, Hospitals and Veterinary Facilities Zoos,
- Aquariums, and Theme Parks
- Marine and Offshore Applications
- Food, Beverage and Additives Processing and Packaging
- Power Generation Facilities
- Swimming Pools and Outdoor Recreation Structures Car
- Vehicle/Car Wash Facilities
- Seaside, Lake and Waterway Environments



- Commercial Fiberglass Doors & Frames
- Fire Rated Fiberglass Doors & Frames
- Hurricane Rated Fiberglass Doors & Frames
- Door Lite & Louvers
- Fiberglass Wall Louvers
- Fiberglass Window Frames
- FRP Doors & Aluminum Frames



UL approved 20 to 90 minute positive & pressure FRP doors and FRP frames c(UL





Florida Building Code Approved Including HVHZ

Some restrictions do apply regarding fire ratings and FBC Ratings. Contact MDI® for more information.







Fiberglass Door & Frame: **4-Standard Colors**

Over 20 Optional Colors

NOTE: Physical Sample Chips are Available



FRP Features

- Lifetime warranty against corrosion
- Urethane foam, end grain balsa, honeycomb or mineral core
- Smooth face sheets
- Gelcoat, polyurethane or prime-painted finish available
- Completely sealed against the elements
- Chemical and salt resistant
- Wide range of commercial hardware preps available
- Tough, abuse resistant passed a 1 million cycle slam test
- Impervious to moisture, gasses and bacteria
- Ideal where FDA/USDA/OSHA regulations must be considered
- UL approved 20 to 90 minute positive pressure.
- Florida Building Code Approved, including HVHC.

FRP DOORS & ALUMINUM FRAMES



MDI's FRP Door System, is a Fiberglass Polyester (FRP) door and aluminum frame intended primarily for exterior openings such as schools, restaurants in high use areas, as well as anywhere a strong, light-weight opening is required to withstand abuse.

Long lasting embossed pebble finsh that never needs painting; factory installed hardware (as required); excellent thermal peformance (reduces engy usage); EPD & Greengurd certified; available with lite & louver kits; wide selection of colors, sleek aluminum frame (or HM as required) & door trim; can be fire rated up to 90 minutes (as required); hurricane resistant (as required); light weight and easy to install.







SOUND RATED (STC) DOORS & FRAMES



Noise can have significant affects on people's daily functions. Facilities need to shield common workspaces and office employees from the distractions of resident noise originating from HVAC units and other heavy equipment rooms. Schools have to significantly reduce the sounds coming from band rooms and hallways. Virtually all types of buildings need rooms equipped for private conversation. Plus, the need for absolute confidentiality is increasing because of expanding national security operations.

STC (Sound Transmission Class)

Sound transmission class (STC) ratings give a single value to acoustical performance for a door opening. The higher the STC value, the better the rating and the better the performance of the sound control.



TESTING

- Acoustical assemblies are third-party, independently tested under the ASTM E90, ASTM E1332, ASTM E2235, ASTM E413, SDI 128, and HMMA 865 criteria.
- Metal swing doors with STC ratings up to STC-57, single and double door openings. Some restrictions do apply.

BULLET RESISTANT DOORS & FRAMES:



Our Bullet Resistant Door & Frame System provides cost-efficient readily available protection against assault and vandalism at vulnerable door openings such as isolated utility buildings, cashier islands, currency exchanges, box offices, remote electrical panels, etc. Bullet Resistant Doors & Frames by MDI® are effective against a wide range of small firearms when used with structures similarly rated.

What Makes our Doors so Strong?

- 8 Levels of bullet protection.
- Available in standard and custom door sizes.
- Proprietary ballistic armor core.
- ✓ Welded seamless edge doors, continuously welded frames.
- Low cost as compared to the benefit bullet resistant openings provide.
- ✓ Up to 90 minutes fire rated is available. Some restrictions do apply.
- Bullet resistant door & frame specs are proprietary.
- Bullet-resistant glazing is available.

TESTING:

- Certified and third-party tested in accordance with UL752 standards
- Bullet resistant doors and frames are fabricated with the finest UL listed armor panels that meet or exceed UL 752 Standard for bullet resistant materials.
- · All doors and frames are designed to provide the best practical protection for threat levels 1 through 8.
- Bullet-protection ratings for UL752 levels 1-8

BLAST RESISTANT DOORS & FRAMES



MDI® offers a full line of single and pair swinging blast-resistant doors. Vision light configurations range from peep sites to dual glazed window systems. Double egress openings are available as well. Additional performance options that can be incorporated into this door include: airtight, acoustical, & UL bullet resistant requirements. Depending on the individual design criteria, all features may not be available. Consult MDI® with your project specific needs to determine availability. To assist in determining hardware compatibility with our Blast Resistant Doors, please contact our sales department. Blast resistant door & frame specs are proprietary.

Blast door openings are typically available in ranges from 1.00 psi to 20 psi. Some typical public and private applications where blast resistant protection is required are: chemical plants, petrochemical plants, pharmaceutical manufacturing, refineries, research facilities, manufacturing environments, processing facilities, nuclear plants, DOD and DOE buildings, fracking sites and more.

UL	/52 BK	Katings 1-d	5
LEVEL	BULLET	CALIBER/GUN SHO	TS
1		9mm Hand Gun	3
2		.357 Magnum Hand Gun	3
3		.44 Magnum Hand Gun	3
4		.30 Caliber Rifle (Hunting)	1
5		7.62mm Rifle (AK-47)	1
6		9mm Hand Gun (Uzi)	5
7		5.56mm Rifle (M16)	5
8		7.62mm Rifle (AK-47)	5

Please note that gun types noted above are only examples of the gun type for the respective level.

Our Doors Are Tough 8 Levels of Bullet Resistant Protection

SPECIALTY PRODUCTS

TRAFFIC IMPACT DOORS



Metropolitan Offers a full line of swinging impact traffic doors, including clear, rigid and flexible doors suitable for forklift or pedestrian traffic. MDI traffic impact door designs include ABS impact panels and are available in a variety of colors and sizes for industrial, office and food service environments.

FEATURES (varies by model):

- Resistant to impact abuse by carts, pallets, hand trucks and light fork lift traffic.
- Materials meet USDA Guidelines, making specific models the right choice for meat packing plants as well.
- Fully insulated and gasketing options.
- Window options and bumpers are available.













Restaurants, Supermarkets, Food Processing, Pharmaceutical, Hotels, Airports, Retail Department Stores, Factories, Warehousing & Distribution Centers & More.

WINDSTORM (HURRICANE) HM DOORS & FRAMES

The State of Florida Building Code covering Windstorm (Hurricane) Resistance Products was rewritten and adopted in October, 2003. The code allows for door systems to be tested and component listed to test standards with third party certifiers such as Underwriters Laboratories and ITS -Warnock Hersey. The process is similar to the way fire doors are controlled today. MDI Windstorm Resistant HM Steel Doors have been tested by UL and ITS/WH certified to the following test standards:

Windstorm Resistant HM Steel Doors & Frames supplied by MDI® may be classified as fire doors under UL and WH. In addition, MDI® can supply you with NOA (Notice of Acceptance) approved Winstorm (Hurricane) doors & frames for Miami-Dade County, Florida. Contact your MDI Sales Representative for more details and specific information on Hurricane Resistant openings.











- Single & Pair Door/Frame Openings.
- Inswing & Outswing configuration.
- Single Door Openings and Double Door Openings Available.
- Contact MDI for more specific details related to you project requirements.







Florida Building Code Approved Including HVHZ

Some restrictions do apply regarding fire ratings, FBC and NOA Approvals. Contact MDI® for more information.

Consider This...Damage From Flvina Debris:

A 2"x 4" wood stud weighing 15 pounds, when carried by a 250 mph wind has a horizontal speed of 100mph.





MDI® PARTNERS WITH MAJOR HARDWARE & ACCESSORY BRANDS TO BRING YOU SOLUTIONS FOR EVERY MARKET APPLICATION

HARDWARE APPLIED SERVICES: At MDI®, we don't just sell the doors, frames and hardware - we also provide hardware installation in our shop when requested - providing you with an easier and cost-effective field installation process.

MDI® hardware technicians are well versed in all aspects of hardware installation. Professional service, quality and reliability are the components and commitment that make up the foundation that Metropolitan™ is built on.











ASSA ABLOY

ASSA ABLOY

ASSA ABLOY

ASSA ABLOY



ASSA ABLOY









ASSA ABLOY





















Security Solutions

















HANG YOUR DOOR













SECURE YOUR DOOR













SEAL YOUR DOOR











PROTECT YOUR DOOR















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HARDWARE FINISH CODES =

ANSI/BHMA CODE	US CODE	FINISH DESCRIPTION	BASE MATERIAL	COMMON NAMES
600	USP	Primed for painting	Steel	Primed
601	US1B	Bright black japanned	Steel	
603	US2G	Zinc plated	Steel	
604		Zinc plated and dichromate sealed	Steel	
605	US3	Bright brass, clear coated	Brass	Polished Brass
606	US4	Satin brass, clear coated	Brass	Brushed/Satin Brass
609	US5	Satin brass, blackened, satin relieved, clear coated	Brass	Antique Brass
610	US7	Satin brass, blackened, bright relieved, clear coated	Brass	
611	US9	Bright bronze, clear coated	Bronze	Polished Bronze
612	US10	Satin bronze, clear coated	Bronze	Brushed/Satin Bronze
613	US10B	Dark oxidized, satin bronze, oil rubbed	Bronze	Oil Rubbed Bronze
616	US10A	Satin bronze, blackened, satin relieved, clear coated	Brass, Bronze	
616	US11	Same as above	Brass, Bronze	
618	US14	Bright nickel plated, clear coated	Brass, Bronze	Polished Nickel
619	US15	Satin nickel plated, clear coat	Brass, Bronze	Brushed/Satin Nickel
620	US15A	Satin nickel plated, blackened, satin relieved, clear coated	Brass, Bronze	Antique Nickel
621	US17A	Nickel, blackened, relieved, clear coated	Brass, Bronze	
622	US19	Flat Black Coated	Brass, Bronze	
624	US20A	Dark oxidized, statuary bronze, clear coated	Bronze	
625	US26	Bright chromium plated	Brass, Bronze	Polished Chrome
626	US26D	Satin Chromium plated	Brass, Bronze	Brushed/Satin Chrome
627	US27	Satin aluminum, clear anodized aluminum	Aluminum	
628	US28	Satin aluminum, clear anodized	Aluminum	
629	US32	Bright Stainless Steel	Stainless Steel	Polished Stainless
630	US32D	Satin stainless steel	Stainless Steel	Brushed/Satin Stainless
631	US19	Flat Black Coated	Steel	
632	US3	Bright brass, clear coated	Steel	
633	US4	Satin brass, clear coated	Steel	
636	US7	Satin brass, blackened, bright relieved, clear coated	Steel	
637	US9	Bright bronze, clear coated	Steel	
638	US5	Satin brass, blackened, satin relieved, clear coated	Steel	
639	US10	Satin bronze, clear coated	Steel	
640	US10B	Dark oxidized, satin bronze, oil rubbed	Steel	Oil Rubbed Bronze
643	US10A	Satin bronze, blackened, satin relieved, clear coated	Steel	
643	US11	Same as above	Steel	
645	US14	Bright nickel plated, clear coated	Steel	Polished Nickel
646	US15	Satin nickel plated, clear coat	Steel	Brushed/Satin Nickel
647	US15A	Satin nickel plated, blackened, satin relieved, clear coated	Steel	Antique Nickel
648	US17A	Nickel, blackened, relieved, clear coated	Steel	D. II. J. O.
651	US26	Bright chromium plated	Steel	Polished Chrome
652	US26D	Satin Chromium plated	Steel	Brushed/Satin Chrome

Above is a list comprised of the more common BHMA and US Hardware Finish Codes. Codes may vary from manufacturer to manufacturer. Other finishes are available. Not all finishes are available on all hardware products and not all manufacturer's provide all finishes. Contact MDI^{\oplus} for more details.



METAL ACCESS DOORS

Steel, Aluminum & Stainless Steel



Flush Access Doors
Flush doors w/ standard flange,
drywall bead flange & metal lathe



Hidden Frame Design Concealed frame design An Architect favorite



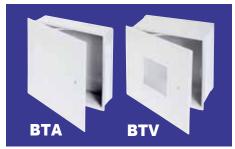
Fire Rated Access Doors
Insulated (ceiling & walls) - PFI
Non-insulated (walls only) - PFN



Aluminum Insulated
Access Door
Flush door with standard flange,
cylinder lock & key, perimeter gasketing



Heavy Duty Access Doors For large openings



Cabinet/Valve Box Access Door

Flush doors w/ hidden box
built on the concealed frame design



Recessed Access Doors
Recessed door to accept tile, drywall, etc.
Available with or without a drywall bead



Floor Doors
Aluminum diamond plate or recessed for carpet or tile



Roof Hatches Galv steel is standard. Aluminum is optional.

ORIGINAL STEALTH BRAND ACCESS DOORS

GFRG - Glass Fiber Reinforced Gymsum



TRAP

Stealth Ceiling Drop-In Style Access Panels



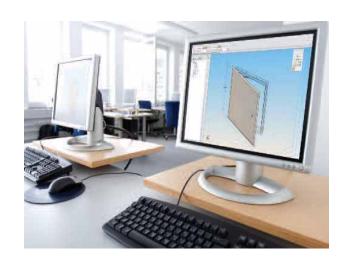
Stealth Hinged Access Door w/ Key Lock



TRRAP

Stealth Round Panels Ceiling Drop-In Only





CUSTOM ACCESS DOOR OPTIONS

Steel, Aluminum & Stainless Steel

When creating your custom doors you will have access to:

- A team of experienced project managers and engineers to help you design the product that best suits your needs.
- A technical drawing team using state of the art software to provide you with accurate and precise drawings.
- A quick response and the shortest lead time in the industry to meet your tight deadlines.

EXAMPLES OF CUSTOM DOORS & OPTIONS:

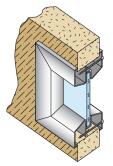


Other options are available. All Options are not available on all doors. Some restrictions to apply.



DOOR VISION KITS, LOUVER KITS & GLASS





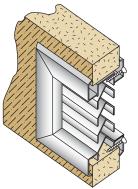
Standard Metal Vision Kit For Rated and Non Rated Doors



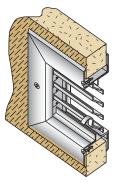
Custom Metal Vision Kit With Mullion Dividers For Rated and Non Rated Doors







Non Rated Metal Louver Kit Non Rated Doors, Fixed Blades



Fire Rated Metal Louver Kit Fusible Link Louver w/ Manually Operable Blades

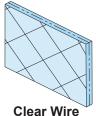












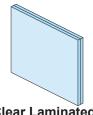
Glass

Fire & Safety Rated

Clear Ceramic

Glass 16 CFR Part 1201

CAT I &B II. ANSI Z97.1 CAN/CGSB-12.1.M

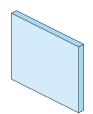


Clear Laminated Safety Glass

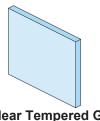
White Laminated

Safety Glass

Smooth to the Touch



Clear Tempered Glass: ANSI Z97.1 2004 UA 16 CFR 1201 CAT II



Insulated Glass Units Non-Rated & Fire Rated





Glazing Tape

Special order sizes and configurations are available for vision & louver kits and glass. Some restrictions do apply. For custom designs please contact our customer service department for more details. Appearance, illustrations, images and functionality may vary from what's shown above. Contact MDI for more details on available vision & louver kits and glass options.

888-MDI-DOOR (888-634-3667)

CLEAR FIRE RATED GLASS=

MDI has a clear vision fire fire rated (non-wire) glass design solutions for doors & frames. We can maintain the fire rating with larger viewable glass by partnering with VSG - Vetrotectech Sant-Gobain clear fire & safety rated glass. We can install larger viewable glass sizes or even multiple lites in the same door while still maintaining the fire rating. Some restrictions do apply.

MOST COMMON CLEAR FIRE RATED GLASS PRODUCTS USED BY MDI:

Keralite Select Filmed: Fire rated filmed safety polished glass ceramic

Contraflam 60: Fire rated clear tempered safety glass

Other VSG products are available: insulated glass units, hurricane impact glass, bullet resistant glass and more.

KERALITE® SELECT FILMED

Fire-Rated Filmed Safety Polished Glass Ceramic















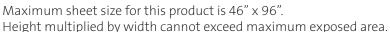
TECHNICAL SPECIFICATIONS

Fire Rating	20-90, 180 Minute
US Testing	Listed and labeled with Underwriters Laboratories Inc. File #R14515
	Tested in accordance with UL 9, UL 10B, UL 10C, NFPA 80, NFPA 252, NFPA 257
Canadian Testing	CAN/ULC-S106, S104
Impact Safety Rating	CPSC 16CFR Part 1201 (CATEGORIES I & II), ANSI Z97.1, CAN/CGSB-12.1-M
Nominal Thickness (in.; mm)	3/16" (5 mm)

AUTHORIZED DIMENSIONS

	WINDOW	//TRANSOM/S	SIDELIGHT	DOOR - N	ON-TEMPERA	TURE RISE	DOOR	-TEMPERAT	TURE RISE
RATING	AREA (Max.)	WIDTH (Max.)	HEIGHT (Max.)	AREA (Max.)	WIDTH (Max.)	HEIGHT (Max.)	AREA (Max.)	WIDTH (Max.)	HEIGHT (Max.)
20	4,500	95-3/8	95-3/8	3,627	46-1/2	78		N/A	
45	4,500	95-3/8	95-3/8	3,627	46-1/2	78		N/A	
60	4,500	95-3/8	95-3/8	3,627	46-1/2	78	100	10	33
90	4,500	95-3/8	95-3/8	3,627	46-1/2	76	100	10	33
180		N/A			N/A		100	10	33











CONTRAFLAM® 60

Fire-Rated Clear Tempered Safety Glass















TECHNICAL SPECIFICATIONS

Fire Rating	60 Minutes
US Testing	UL 9, 10B, UL 10C, NFPA 80, NFPA 251, NFPA 252, NFPA 257, ASTM E119, UL 263
Canadian Testing	CAN/ULC-S101, S104, S106
Building Code Marking	D-H-T-60, OH-60, W-60, D-H-T-W-60
Impact Safety Rating	CPSC 16CFR 1201-CAT II, CAN/CGSB-12.1-M, ANSI Z97.1
Nominal Thickness (in.; mm)	1" (25 mm)
Thickness Tolerance (in.; mm)	+1/8" to -1/16" (+3 mm to -1.5 mm)
U value BTU/(hr*sqft*degF)	0.76
STC Rating	40
Approx. Visible Light Transmission	80%
Groove (in.; mm)	Depth: 7/8" (22 mm) Width: 1-3/4" (45 mm)
Weight (lbs./ft.²; kg/m²)	10.3 (58.0)

MAXIMUM DIMENSIONS	Window, Transom, Sidelight	Door Non-Temp Rise	Door Temp Rise
Maximum Exposed Height (in; m)*	94-13/16 (2.41)	89-1/2 (2.27)	89-1/2 (2.27)
Maximum Exposed Width (in; m)*	94-13/16 (2.41)	30 (0.76)	30 (0.76)
Maximum Exposed Area (in ² ; m ²)*	4,449 (2.87)	2,685 (1.73)	2,685 (1.73)

Low iron glass is available upon request.







888-MDI-DOOR (888-634-3667)

WASHROOM ACCESSORIES

Metropolitan offers high quality accessories at a competitive price, fast delivery, and excellent customer service. MDI® offers a full line of washroom accessories for every application. From high-end office buildings to high-security prisons, MDI® has a product to meet any washroom accessory need. Custom products are no problem for Metropolitan, from unusual configurations of grab bars, to modified sizes, we will work with you to provide the products necessary to complete your project.



- Grab bars, swing-up & swing-away grab bars
- Seat covers, toilet tissue holders & combo units
- Towel dispensers & waste receptacles
- Baby changing stations
- Hand dryers push button & hands free operation
- Medicine cabinets, shower seats, mirrors & soap dispensers
- Utility shelves, hat & coat racks, mop & broom holders; and
- A variety of bathroom partitions are available



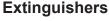






FIRE EXTINGUISHERS & CABINETS







Cabinets



CLASS A FIRES - PAPER, WOOD, CLOTH, ETC., WHERE QUENCHING BY WATER OR INSULATING BY DRY CHEMICAL IS EFFECTIVE.

FUEL CAUSE: WOOD, PAPER TRASH,



CLASS B FIRES - FLAMMABLE OR COMBUSTIBLE LIQUIDS WHERE SMOTHERING ACTION IS REQUIRED. FUEL CAUSE: OIL, GAS, ETC.



CLASS C FIRES - LIVE ELECTRICAL EQUIPMENT WHERE THE NON-CONDUCTIVITY OF EXTINGUISHANT IS VITAL. FUEL CAUSE: ENERGIZED ELECTRICAL CIRCUIT.



CLASS K FIRES - COOKING FIRES THAT INVOLVE OILS. FUEL CAUSE: COOKING OILS, ANIMAL OILS, OR FATS IN COOKING APPLIANCES.

COSMIC EXTINGUISHERS: Multi-Purpose Chemical

CLASS A, B, C Fires

Most common type of extinguisher used.

GALAXY EXTINGUISHERS: Regular Dry Chemical

CLASS B, C Fires

Easy clean-up after use.

SATURN EXTINGUISHERS: Class K Wet Chemical

CLASS B. C Fires

Ideal for commercial restaurant applications as a portable supplement to pre-engineered systems.

MERCURY EXTINGUISHERS: Halotron®

CLASS A, B, C Fires

Uses the EPA Approved, government accepted clean extinguishing agent, Halotron 1. Discharges as a liguid then quickly evaporates, leaving no residue or clean-up.



SENTINEL EXTINGUISHERS: Carbon Dioxide

CLASS B, C Fires

Contains liquid carbon dioxide under pressure. Upon discharge the liquid changes to a gas and is directed to the

All units meet the current requirements established by the National Fire Protection Association (NFPA) for NFPA10 (2013 version) "Standard for Portable Fire Extinguishers", and any other applicable NFPA standards. All units UL listed for US and Canada and meet local and national OSHA requirements for fire extinguishers.



DETERMINING THE ROUGH OPENING

DETERMINING THE ROUGH OPENING REQUIRED

To wrap an MDI KD Frame around an existing wall

MDI Fixed Throat KD Frames

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WIDTH	6'-8"	7'-0"	8'-0"		
2'-0"	26" x 81"	26" x 85"	26" x 97"		
2'-4"	30" x 81"	30" x 85"	30" x 97"		
2'-6"	32" x 81"	32" x 85"	32" x 97"		
2'-8"	34" x 81"	34" x 85"	34" x 97"		
2'-10"	36" x 81"	36" x 85"	36" x 97"		
3'-0"	38" x 81"	38" x 85"	38" x 97"		
3'-4"	42" x 81"	42" x 85"	42" x 97"		
3'-6"	44 x 81"	44" x 85"	44" x 97"		
3'-8"	46" x 81"	46" x 85"	46" x 97"		
4'-0"	50" x 81"	50" x 85"	50" x 97"		
5'-0"	62" x 81"	62" x 85"	62" x 97"		
5'-4"	66" x 81"	66" x 85"	66" x 97"		
6'-0"	74" x 81"	74" x 85"	74" x 97"		
7'-0"	86" x 81"	86" x 85"	86" x 97"		
8'-0"	98" x 81"	98" x 85"	98" x 97"		

DETERMINING THE ROUGH OPENING REQUIRED

To wrap an MDI KD Frame around an existing wall

MDI Adjustable Throat KD Frames

WIDTH	6'-8"	7'-0"	8'-0"
2'-0"	25 1/2" x 80 3/4"	25 1/2" x 84 3/4"	25 1/2" x 96 3/4"
2'-4"	29 1/2" x 80 3/4"	29 1/2" x 84 3/4"	29 1/2" x 96 3/4"
2'-6"	31 1/2" x 80 3/4"	31 1/2" x 84 3/4"	31 1/2" x 96 3/4"
2'-8"	33 1/2" x 80 3/4"	33 1/2" x 84 3/4"	33 1/2" x 96 3/4"
2'-10"	35 1/2" x 80 3/4"	35 1/2" x 84 3/4"	35 1/2" x 96 3/4"
3'-0"	37 1/2" x 80 3/4"	37 1/2" x 84 3/4"	37 1/2" x 96 3/4"
3'-4"	41 1/2" x 80 3/4"	41 1/2" x 84 3/4"	41 1/2" x 96 3/4"
3'-6"	43 1/2" x 80 3/4"	43 1/2" x 84 3/4"	43 1/2" x 96 3/4"
3'-8"	45 1/2" x 80 3/4"	45 1/2" x 84 3/4"	45 1/2" x 96 3/4"
4'-0"	49 1/2" x 80 3/4"	49 1/2" x 84 3/4"	49 1/2" x 96 3/4"
5'-0"	61 1/2" x 80 3/4"	61 1/2" x 84 3/4"	61 1/2" x 96 3/4"
5'-4"	65 1/2" x 80 3/4"	65 1/2" x 84 3/4"	65 1/2" x 96 3/4"
6'-0"	73 1/2" x 80 3/4"	73 1/2" x 84 3/4"	73 1/2" x 96 3/4"
7'-0"	85 1/2" x 80 3/4"	85 1/2" x 84 3/4"	85 1/2" x 96 3/4"
8'-0"	97 1/2" x 80 3/4"	97 1/2" x 84 3/4"	97 1/2" x 96 3/4"

See Figure 1 for typical knock-down frame installation wrapping-around existing wall.

OVERALL FRAME DIMENSION

Butting an MDI frame against an existing wall MDI Welded or KD Frames with 2" Trim

WIDTH	6'-8"	7'-0"	8'-0"
Example	Widt	h + 4" x Height	+ 2"
3'-0"	40" x 82"	40" x 86"	40" x 98"

See Figure 2 for typical welded frame installation butted to an existing wall.

The rough opening required to install a welded frame as "butted" to an existing wall is completely up to the installer. Some installers require 1/16" - 1/8" clearance, while others require 1/4" - 1" clearance. MDI recommends that the installer measures the opening and comfirms the overall frame dimensions prior to ordering.

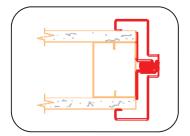


Figure 1:
Typical KD installation wrappingaround an existing wall. Fixed throat frame shown. TS (PF) anchor shown (standard on fixed throat KD frames only.

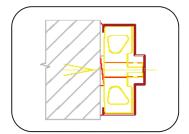


Figure 2: Typical WF installation butted against an existing wall. EMA anchor prep.

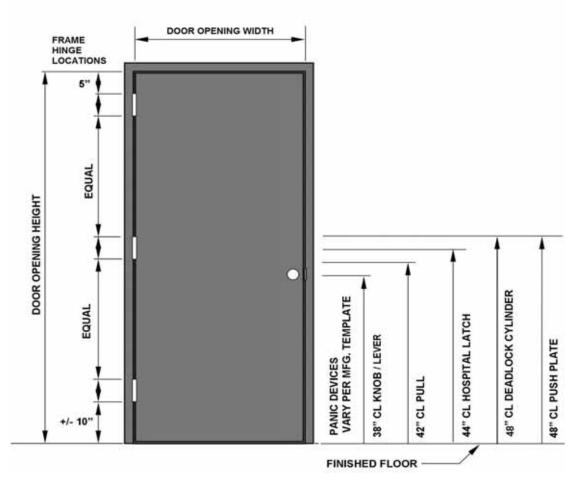
There are many different wall anchors available. Please contact our customer service department to discuss your job-specific requirements so we can recommended some options. The installer should be consulted prior to ordering as to which wall anchors are required.



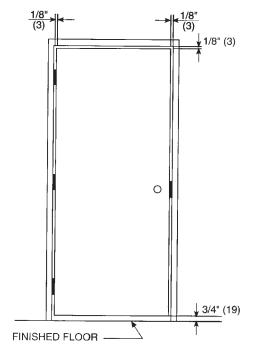
^{*} Door sizes are noted as "width x height."

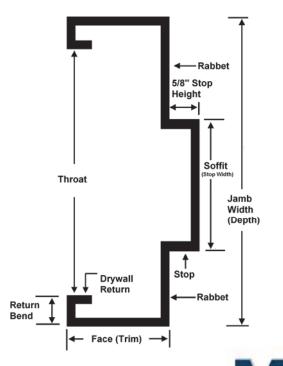
KNOWLEDGE CENTER

CLEARANCES, FRAME PARTS & HARDWARE LOCATIONS



DOOR CLEARANCES

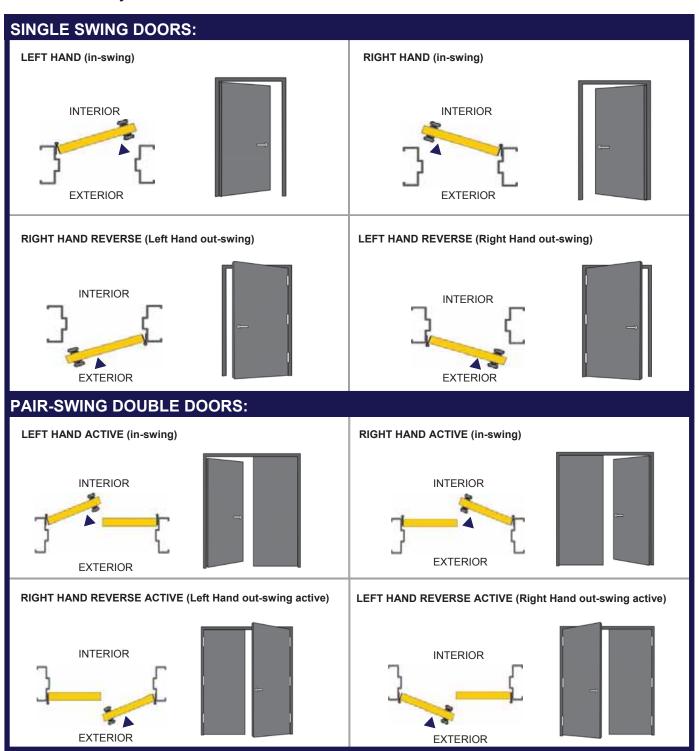




SINGLE & DOUBLE DOOR SWINGS



Indicates key side



Doors, Frames & Hardware

Standard & Custom Engineered



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Toll Free 888-MDI-DOOR (888-634-3667)

Phone: 516-294-1801 /// Fax: 516-294-1828 www.metropolitandoor.com

350 Thorens Avenue Garden City Park, NY 11040



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