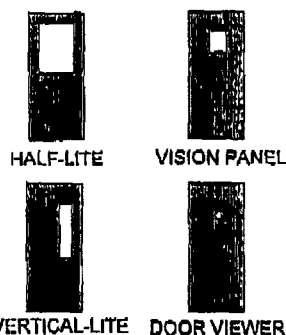
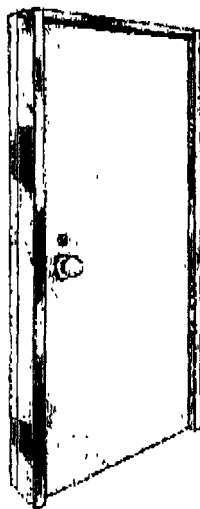


INSULGARD CORPORATION



Bullet Resisting
Product Data

HM544 BULLET RESISTING DOOR SYSTEM



FEATURES

- U.L. LISTED LEVEL 3
- 11 GAUGE FACE SHEETS
- CONTINUOUS HINGE PREPARATION
- CLOSER REINFORCED
- COMPLETE HARDWARE OUTFITTING
- 3' 0" X 7' 0" & 3' 0" X 6' 8" FULL OPAQUE DOORS AVAILABLE AND, CUSTOM SIZES AND STYLES AVAILABLE
- DOOR AND FRAME SHIPPED AS COMPLETE UNIT
- USE OF GE PLASTICS LEXGARD® IN VISION LITE OPTIONS

PRODUCT DESCRIPTION

The Insulgard HM544 Bullet Resisting Door System is designed to defeat ballistic assaults from a .44 Cal. Magnum handgun per testing under UL standard 752 at Underwriters Laboratories.

The door is a hollow metal swing type for interior and exterior use, and standard door usage.

BASIC USE

Use of this door system is to provide protection in those applications where a ballistic attack threat exists. Such applications are often in convenience stores, law enforcement facilities, hospital pharmacies and many other "at risk" facilities.

It is recommended that these door be used in conjunction with protected wall areas.

LIMITATIONS

This door has been designed to meet 3 ballistic resistance standard as set in Standard 752. It is recommended that user should determine his ballistic threat, determine the correct product to meet that threat.

CONSTRUCTION

Doors are to be full flush construction of 11 gauge ballistic steel face plates are welded to 14 gauge interior lock and hinge rails. Each door will have 14 gauge vertical steel stiffeners. Top and bottom of door to receive 14 gauge closure channels.

Door framing will be constructed of 11 gauge ballistic steel and be offered in types for drywall and masonry openings.

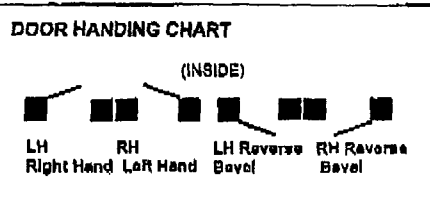
Door hardware (standard) will be:
Continuous hinges
LCN closer

Optional Hardware - Hardware materials shall be of a type listed above, unless otherwise requested. Contact your nearest Insulgard Corporation representative for additional optional hardware information.

Finish - All doors and frames furnished prime painted, ready for final finish in field. Option: Factory applied polyurethane enamel can be provided, standard colors as selected.

SIZES AND OPTIONS

Door Thickness:	1 3/4"
Frame thickness:	2" x 6 3/4"
Standard door sizes:	36"x 84"
	36"x 80"
	(other sizes & styles available - 4 weeks)
Door rough opening size:	40 1/2" x 88 1/4"
Door shipping weight:	600 lbs



SPECIFICATION

A. Door Construction - Doors are constructed of 11 gauge steel plates, and steel tubes 1 1/2" thick.

B. Door Frame Construction - Door frame constructed of formed steel plates. Frames are 2" wide x 6 3/4" deep. Door frames are fabricated at factory and shipped with door. All door to be pre-tested for all lock clearances, and ease of operation, to installation easier. All joint connections provide a rigid assembly when installed. The door stops and transoms contain built-in material equal to the value of the door unit. The door and frame are protected in the event of a fire. The door stop is built into the frame. Closer Silencers are used at the lock jamb. Frames are drilled to accept 1/4" anchors 18" O.C. provided to take up a space at each end. Diagrams are shipped enclosed in each package.

C. Hardware Assembly

Each door is equipped as follows:
Door closer per door; Deadbolt lockset hinges. All other hardware must be specified.

INSULGARD CORPORATION

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Technical Data

5133 Lawrence Place, Hyattsville, MD 20781 800-638-6718 301-927-8855 Fax 301-927-4531

HM544 DOOR SYSTEM - CLAMP-ON FRAME DOOR INSTALLATION

1. Remove door unit from crate and place on two saw horses, door stop side up. Sawhorses should be approximately 30" long for a standard 36" door opening. Open frame to approximate 105 degrees. Remove the screws attaching the hinge to the frame. You do not have to remove screws from the door.
2. Check opening making sure it is approximately 1/4" inch wider and 1/4" inch taller than the zee anchors welded to the frame. Adjust the opening if necessary.
3. Remove door side of the frame by removing 10 flat head machine screws. Pull unit apart ending with 2 half frame sections.
4. Place the push side section of the jamb into the opening and shim between the anchor and stud. Secure the frame to the wall studs or wall condition. Be sure not to pull the jamb into a rack or pull the sides out, because you must receive the door side of the jamb to complete the frame installation.
5. Plumb the hinge jamb both in and out, back and forth. The jamb must be plumb for the door to swing properly.
6. Set the door side of the frame in the opening. Secure the two sections together with the flat head screws you removed.
7. Hang the door and hinge to the frame.
8. Install the closer to the factory drilled location. Refer to the closer instructions for adjustment needs.
9. If you are experiencing difficulty with the door closing equally around the frame, drill new attachments of the flat head machine screws and rack the frame to suit your condition. This also applies to a wall thicker than the frame was ordered for.
10. If a threshold is present, it needs to be custom fitted. Cut to the length and notch for your desired installation. Before installing the threshold, remove the temporary spreader welded to the frame. Drill two 1/4" holes in the threshold to accept the anchors.
11. If electric hardware is present attach the power source to the terminal block as per wiring diagram located on the transom access panel. The access panel is a formed piece of channel attached to the header door stop. The diagram only identifies which wires are attached to which terminal. Refer to the manufacturers schematics for proper wiring connections or paths.

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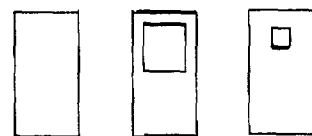


Bullet Resistant
Product Data

USD5 BULLET RESISTING DOOR SYSTEM



DOOR STYLES



OPAQUE HALF-LITE VISION PANEL

FEATURES

- HIGH POWER RIFLE RESISTANT, 7.62MM & 5.56MM
- HEAVY DUTY STEEL CONSTRUCTION
- EXTERIOR GLASS COMPONENT EASILY REPLACE
- SECURITY GLAZING FACTORY INSTALLED
- COMPLETE HARDWARE OUTFITTING
- DOOR AND FRAME SHIPPED AS COMPLETE UNIT

PRODUCT DESCRIPTION

The Insulgard USD5 Bullet Resistant Door Series is designed as a rugged but simple door system capable of defeating multiple impacts of 7.62mm NATO and 5.56mm projectiles as defined by applicable U.S. Government Standards. Tested to UL 752 Standard, Level 8.

Ballistic testing conducted at H.P. White Laboratory, Inc., Street, MD. USA.

BASIC USE

This door system would be used to provide protection in those areas likely to be attacked by a mob or terrorists. Applications are likely to be at main security access control points and at other designated egress points.

It is recommended that this door system be used in conjunction with equally protected wall areas.

LIMITATIONS

This door has been designed to rigid specifications developed by Government. It is recommended end user determine the ballistic forced entry threat and determine correct product to meet that threat.

USD5 Bullet Resistant Door is a forced entry resistance door. In addition, an extra deadbolt lock will support medium duty forced resistance.

CONSTRUCTION

Doors are to be full flush construction of steel plates and 1 1/4" steel tube. Vertical jambs and transoms to contain bullet resisting filler material equal to protection level of the door.

All joint connections are welded to provide a rigid assembly when installed. All doors are pretested for checking locking functions, clearances and ease of operation.

Standard Hardware:
Continuous Hinge
Russwin Deadbolt Lockset
LCN Closer

Optional Hardware:
Electric Strike
Panic Device
Other Specialty Hardware

Consult factory representative for further information.

SIZES AND OPTIONS

Door thickness: 1 3/4"
Frame thickness: 2" X 6 3/4"
Standard door sizes: 36" x 84"
Door rough opening size: 40 1/2" x 86 1/4"
Door shipping weight: 900 lbs

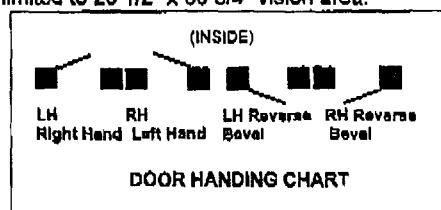
(Other sizes and styles available, consult factory)

Finish Options

All doors and frames furnished prime painted, ready for final finish in field. Optional finishes can be provided to include factory applied polyurethane enamel, architectural metals or plastic laminates.

Glazing Options

Glazing materials furnished by Insulgard shall be a type tested and approved by H.P. White Laboratory, Inc. for bullet resistance. Size to be limited to 20 1/2" x 30 3/4" vision area.



SPECIFICATION

A. Door Construction

Door is constructed of steel plates, 1 1/4" steel tube and flat stock. Door thickness is nominal. Joint connections are welded to provide a rigid assembly when installed.

B. Door Frame Construction

Door frame assembly is constructed of steel plates. Framing dimensions are 2" wide x 6 3/4" deep. Door frames are completely fabricated at factory and shipped with doors attached. All door to be tested for all locking functions, clearances, and ease of operation to make field installation easier. All joints are welded to provide a rigid assembly when installed. Vertical jambs, door stops and transoms are constructed of bullet resistant material equal to the value of the door. The seams of the door and frame are protected in a similar manner. The door stop is built into the frame and is predrilled to accept 3/8" anchors 16" on center provided to take up a space at each anchor.

C. Hardware Assembly

Each door is equipped as follows:
LCN closer per door, Russwin deadbolt lockset, Continuous Hinge. All other hardware not specified.

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