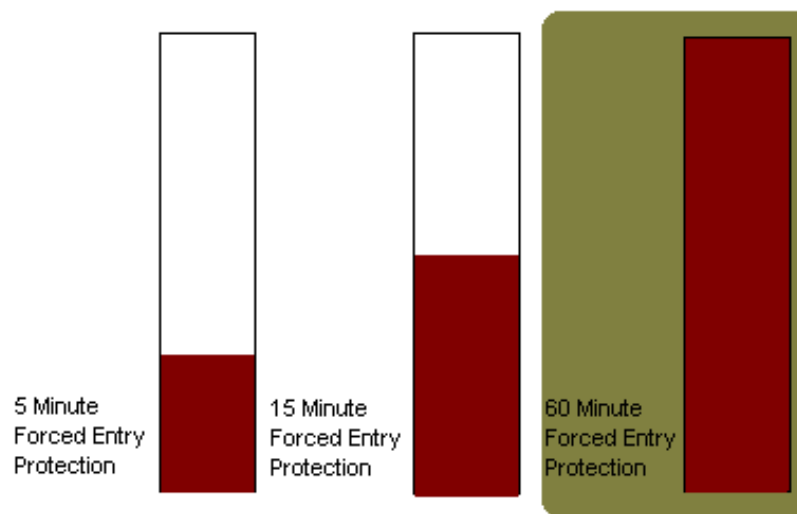


Fabrication Designs, Inc.

# 60 MINUTE FE/ BR PRODUCTS

*Doors, Door Pairs, Louvers*



## **60 Minute FE Requirements:**

- 6 Person Attack Team
- 60 Minute Forced Entry Attempt on Each Vulnerable Location of the System
- Prevents Passage of Rigid 12" x 12" x 8" Rectangular Box or Rigid 12" x 12" Cylinder
- Resists 5.56 & 7.62 Military Rifle Ballistic Shots

**October 2002**

**FDI-60M**

## Product Description

The FDI-60M and FDI-260M Forced Entry Resisting Door Systems are capable of resisting 60 minutes of forced entry assault and defeating multiple impacts of 5.56 and 7.62mm NATO projectiles as defined by applicable U.S. Government Standards.

## Basic Use

This door system is used to provide protection in those areas susceptible to mob or terrorist attacks. Applications are likely to be at safe haven rooms where prolonged protection is required.

## Limitations

This door has been designed to meet the high power rifle and 60-minute forced entry requirements as set forth in DOS SD-STD-01.01, Rev.G (amended). It is recommended that each end user determine the forced entry threat and choose the correct product to meet and resist that threat.

### FDI-60M

Opaque

- DOS 2133 GDO-60R-FDI-01

### FDI-260M

Opaque

- DOS 2133 GDD-60R-FDI-01

## Specifications/Construction

**Door construction:** Doors and frames are full flush construction of ballistic steel plates and steel tube. Vertical jambs and header contain bullet-resisting material equal to protection level of the door.

**Door Frame Construction:** Door frame assembly is constructed of steel tubes. Framing dimensions are 2" wide x 5 1/2" deep. Door frames are completely fabricated at factory and shipped with doors attached. All doors are pre-tested for all locking functions, clearances, and ease of operation, to ease field installation. All joint connections are welded to provide a rigid assembly when installed. The doorstop is built into the frame. Frames are predrilled to accept 1/2" anchors 12" on center. Shims are provided to take up a space at each anchor. Wiring diagrams are shipped enclosed in the hardware packages.

**Hardware Assembly:** Each door is equipped as follows:

- Door Closer (LCN 4041 CUSH)
- (3) Forced Entry Locks (Adams Rite 1850S w/ 15tt Thumbturns)
- Continuous Hinge (Roton 780112HD)
- Aluminum Threshold (Pemko 177AV36)
- Weather Stripping (Pemko SS88D17)
- (on FDI-260M) Two-Point Deadlock (Adams Rite 1875)

**Optional Hardware:** Refer to the hardware section of our website for additional hardware information. You must select a lockset, pull handle, or panic device that suits your application. Most hardware is shipped pre-assembled with the door.

**Subframes:** To meet forced entry requirements of DOS SD.STD-01.01 (Rev. G amended), steel tube subframes 1/4" wall thickness minimum, must be attached to concrete or masonry with Hilti® Epoxy Anchoring System. An acceptable alternative is the use of steel embeds, 1/2" thick minimum. These systems are included as options in our product line.

**Finish:** All doors and frames are furnished prime painted, ready for final finish in field. Options: Factory can apply polyurethane enamel; color chart is available upon request. Doors can also be fitted with various types of architectural metals.

## Shipping Weight

### Standard 3'0" x 7'0" Door

1476 lbs. / 669 kgs.

Available Styles:



**Product Description**

The FDI-L60 Forced Entry Resisting Louver System is capable of resisting 60 minutes of forced entry assault and defeating multiple impacts of 7.62mm NATO and 5.56mm projectiles as defined by applicable U.S. Government Standards.

**Basic Use**

This louver system is used to provide protection in those areas susceptible to mob or terrorist attacks. The primary application of louvers is areas where ventilation is required, such as generator room walls.

**Limitations**

This louver has been designed to meet the rigid specifications developed by the U.S. Government for 60-minute forced entry and high power rifle impact. It is recommended that each end user determine the ballistic and forced entry threat and choose the appropriate product to meet and resist that threat.

**Specifications/Construction**

Louver construction: Louvers are constructed of ballistic steel plates.

Louver Frame Construction: Louver frame assembly is constructed of steel tubes and plates. Framing dimensions are 3¼” wide x 10” deep. Louver frames are completely fabricated at factory and shipped with louvers loose. All louvers are pre-tested for fit to ease field installation. All joint connections are welded to provide a rigid assembly when installed. The louver stop is built into the frame. Frames are predrilled to accept ½” anchors 8” on center. Shims are provided to take up a space at each anchor.

Subframes: To meet forced entry requirements of DOS SD.STD-01.01 (Rev. G amended), steel tube subframes ¼” wall thickness minimum, must be attached to concrete or masonry with Hilti® Epoxy Anchoring System. An acceptable alternative is the use of steel embeds, ½” thick minimum. These systems are included as options in our product line.

Finish: All louvers and frames are furnished prime painted, ready for final finish in field. Options: Factory can apply polyurethane enamel; color chart is available upon request.

**Openings**

Standard rough opening is required to be 3/8” to ½” larger than the louver gap cover dimension.

**Weights and Measurements**

Standard Louver:

Louver Thickness:	7”
Frame Depth:	10”
Louver Size:	24” x 84” max. / panel (larger sizes are multiple panels joined by steel mullion)
Shipping Weight:	100 lbs / sq. ft.



**FDI-L60**

**FDI-L60**

- DOS 2133 GPL-60R-FDI-01

Available Louver Styles:



## Fabrication Designs, Inc.

Questions or Comments?

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