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# **Escutcheons & Cylinder Shields**

## **Escutcheon Description**

Escutcheon - A heavy plate which ornaments and protects the door or frame around a lever tumbler lock.

# **Escutcheon Applications**

Helps to prevent wear at the cylinder edge, and helps the user visually locate the lock cylinder. Escutcheons are provided either single wing (key removable in one position) or double wing (key removable in two positions) as required by the lock functions.

#### **Escutcheon Standard Features**

- Torx tamper resistant screws Escutcheons and cylinder shields are provided with two 1/4"-20 x 5/16" oval head screws.
- Finish No.1 US32D
- Finish No.1B US4

#### **Escutcheon Models Available**

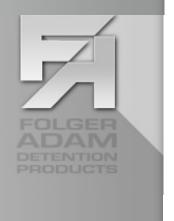
- No.1 Stainless Steel
- No.1B Brass

### **Cylinder shield Description**

Escutcheon - A heavy plate which ornaments and protects the door or frame around a lever tumbler lock.

## **Escutcheon Applications**

Helps to prevent wear at the cylinder edge, and helps the user visually locate the lock cylinder. Escutcheons are provided either single wing (key removable in one position) or double wing (key removable in two positions)



as required by the lock functions.

#### **Escutcheon Standard Features**

- Torx tamper resistant screws Escutcheons and cylinder shields are provided with two 1/4"-20 x 5/16" oval head screws.
- Finish No.1 US32D
- Finish No.1B US4

#### **Escutcheon Models Available**

- No.1 Stainless Steel
- No.1B Brass

Cylinder shield - A swinging, protective cover for a lever tumbler lock cylinder. Interchangeable with an escutcheon, the shield has an aluminum spacer and cover. APPLICATION: Keeps foreign matter out of the cylinder. Used on exterior doors to keep cold air and dirt from blowing into the cylinder. MODEL AVAILABLE: No.2CS - Stainless steel and aluminum.

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# **Prison Hinges**

## Description

Prison hinges are heavy weight for the detention environment. They are constructed for high abuse areas.

## **Applications**

**No.5 Hinge** - Use on cell or corridor doors, security vestibule doors, and primary entrances. Also suitable for armories or drug storage areas, or access panels in high abuse situations.

**No.3 Hinge** - Use on moderate size doors, such as food-pass doors, control or key cabinet doors, and window grilles.

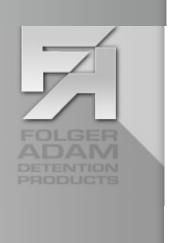
#### **Standard Features**

#### **Number 5 Hinges**

- Drop-forged steel leaves 1/2" thick
- Two thrust bearings With 1/4" hardened steel ball bearings and races
- Knurled, hardened hinge pin 3/4" diameter steel, pressed into a blind hole. Tamper resistant.
- · Non-handed Reversible.
- Oil hole In barrel of male leaf.
- Mounting screws Provided with six 1/2"-13 x 7/8" flat head steel security screws.
- Finish USP Primed

## **Number 3 Hinges**

- Cast, malleable iron leaves 3/8" thick
- Knurled, hardened hinge pin 3/8" diameter, pressed into a blind hole.
- Non-handed Reversible.
- Oil hole In barrel of male leaf.



- Mounting screws Provided with four 3/8"-16 x 3/4" flat head steel security screws.
- Finish USP Primed

## **Optional Features (Number 5 Only)**

- Welded application May be ordered without holes for welding.
- May be ordered by specifying screw hole locations Refer to template.
- Welded pin construction Meets some state requirements.

# Optional Features (Number 3 & Number 5)

Finish - Galvanized

#### **Models Available**

- No.5FS Full surface hinge for hollow metal or steel plate doors.
- No.5HS Half surface hinge for grille doors in heavy steel frames.
- No.5G Gap type hinge for grille doors in grille frame.
- No.3FS Full surface hinge for access doors and panels.
- No 3FP Food pass door hinge.

#### **Load Bearing Data**

#### Number 5 Hinge

- 2 hinges: 500 lbs. with screws attached to door and frame.
- 3 hinges: 750 lbs. with screws attached to door and frame.

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# 4 1/2 FM Institutional Hinges

# Description

Institutional hinges are investment-cast, detention strength, full mortise hinges for hollow metal doors and frames.

## **Applications**

Model 4-1/2FM hinges may be specified for use in the detention environment on administration area doors, or cell doors. Model 4-1/2FM-ICS hinges are suitable for virtually any detention door. Integral studs on each leaf add to abuse resistance.

CAUTION: For inmate safety, cell doors should swing out, placing exposed hinge surfaces away from the inmate.

## **Standards Compliance**

Model 4-1/2FM-ICS: ANSI/National Association of Architectural Metal Manufacturers (NAAMM) Standard HMMA 863-96 requiring the hinge to withstand 200 blows of 200 ft. lbs. each.

Model 4-1/2FM and 4-1/2FM-ICS hinges comply with requirements of NFPA 80.

#### **Standard Features**

- Investment cast hinge leaves Model 4-1/2FM, 0.188" thick, investment cast stainless steel or steel. Model 4-1/2FM-ICS, investment cast stainless steel with 15/32" diameter, 1/2" long studs on each leaf. Studs anchor the hinge to door and frame, and provide support even if screws are sheared.
  - NOTE: Stainless steel leaves are used for US32D finish, steel leaves for USP finish.
- Non-removable fully concealed pins Prevents tampering or removal.



- Torx tamper-resistant screws Eight 1/4-20 x 1/2" flat head Torx screws are supplied as a standard. Stainless steel screws are provided for US32D finish, steel screws with black oil finish are provided for USP primed hinges. Steel screws plated US4 are provided for US4 finishes.
- · Hospital tips Tapered barrel ends for inmate safety.
- Permanent lubrication Eliminates field maintenance.
- Reversible Non handed. Screw hole locations conform to industry standards. (ANSI A156.7)
- Heavy door capacity Three hinges support a 300 lbs. door.
- Finish USP primed for painting.

## **Optional Features**

- Finish Model 4-1/2FM: US4, US32D
- Finish Model 4-1/2FM-ICS: US32D
- Torx tamper resistant screws Eight 12-24 x 1/2" flat head Torx screws may be supplied as an option. Screw holes in the hinge are also different when specified with this type of screw.

#### Models Available

- 4-1/2FM Full mortise hinge.
- 4-1/2FM-ICS Full mortise hinge with integral cast studs.

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# 4 ½EH Electric Hinge

## Description

Electric hinges are investment cast, detention strength full mortise hinges for hollow metal doors and frames. The are designed to transmit electric current from field wiring in a door frame to an electric lock installed in the door.

## **Applications**

Electric hinges may be specified for use in the detention environment on administration area doors, or cell doors. **Hinge is non-load bearing.** 

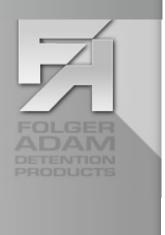
### **Standards Compliance**

Meets UL634 requirments, Switches and Connectors. Uses UL recognized wire.

Screw hole locations conform to ANSI A156.7 standards.

### **Standard Features**

- Investment cast hinge leaves 0.188" thick, investment cast stainless steel or investment cast bronze alloy.
- Supplied With eight 1/4-20 x 1/2" flat head Torx screws. Stainless steel screws are provided for US32D finish. Steel screws with black oil finish are provided for USP primed hinges. Steel screws plated US4 are provided for US4 finished hinges.
- Stainless steel tubular pin 9/16" diameter tubular pin allows wiring to pass from jamb to door.
- Color coded wires Provided with 12' wire leads on door leaf, 1' wire leads on jamb leaf, with 18 gauge, UL recognized wire. Five wires color coded black, red, white, yellow and blue.
- Reversible Non-handed. Screw hole locations conform to industry standards.



• Finish - USP primed for painting.

## **Optional Features**

- Supplied With eight 12-24 x 1/2" flat head Torx screws. Screw holes in the hinge are also different when specified with this type of screw.
- Finish US4 satin brass, US32D

### **Models Available**

• 4-1/2EH - Electric hinge.

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## **102 Series Track Sets**

## Description

Track and hanger sets are overhead supporting devices for manuallyoperated sliding doors ranging in width from 2'-0" to 3'-6" up to a maximum weight of 350 lbs.

## **Applications**

Track and hanger sets may be used for cell or corridor doors on grille, masonry or plate wall construction. Three standard housing sizes suit most door sizes and applications. Specify type of wall for guide mounting. CAUTION: Doors equipped with track and hanger sets are free-wheeling, and may present a staff hazard. They should never be left unlocked, or under the control of an inmate.

#### **Standards Compliance**

Meets UL634 requirments, Switches and Connectors. Uses UL recognized wire.

Screw hole locations conform to ANSI A156.7 standards.

#### **Standard Features**

- Self contained Each set consists of a track box and cover, door hanger with adjustable rollers for leveling, door guide and door guide angle.
- Heavy housing construction 10 gauge steel with cold finished steel track
- Sloped top housing 10 gauge steel, sloped to prevent hiding of contraband.
- Corrosion resistance Cover provided with Torx screws.
- Adjustable door rollers Eccentric bushings permit adjustment to level the door.



- Smooth operation Door rollers 3-3/4" x 1" thick, galvanized steel with sealed, anti-friction bearings.
- Adjustable door stop Steel block attached to track with set-screws.
- Non handed Reversible for doors sliding to right or left.
- Finish USP Primed for painting.
- Rubber bumper Attached to door stop, cushions door in the open position to reduce noise.

# **Optional Features**

- Indication switch An internal switch monitors position of the door indicating either open or closed status. Add suffix "L" when ordering.
- Door starter A spring loaded plunger to push a door slightly open after unlocking. Used with remote controlled electric locks or mechanical locks to move door open once unlocked. Add suffix "S" when ordering.
- Custom sizes Sets may be contructed for wider and heavier doors. Consult the factory with your specific application.
- Continuous housing Sets may be built to suit the width of a group of cells, and may contain a wire tray for wire harnesses connecting locks to common point at the end of a cell run.
- Door receivers or electric lock columns Receivers may be supplied to capture the front edge of the door. Lock columns provide a method of mounting a lock, protecting the wiring, and installing the door receiver.

#### **Electrical Characteristics**

(Indication switch)
Single-pole, double-throw (SPDT), 15 amps @ 125 or 250VDC.

#### Models Available

Model	Door Width	Cell Structure	Weight (lbs.)	
102-1G	2'-0" to 2'-6"	Grill	95	
102-1M	2'-0" to 2'-6"	Masonry	95	
102-2G	2'-6" to 3'-0"	Grill	110	
102-2M	2'-6" to 3'-0"	Masonry	110	
102-3G	3'-0" to 3'-6"	Grill	125	
102-3M	3'-0" to 3'-6"	Masonry	125	
102-5IG	3'-6" to 5'-0"	Grill	Varies	
102-5IM	3'-6" to 5'-0"	Masonry	Varies	

102-6IG	5'-0" to 6'-0"	Grill	Varies
102-6IM	5'-0" to 6'-0"	Masonry	Varies
102-7IG	6'-0" to 7'-0"	Grill	Varies
102-7IM	6'-0" to 7'-0"	Masonry	Varies
102-8IG	7'-0" to 8'-0"	Grill	Varies
102-8IM	7'-0" to 8'-0"	Masonry	Varies
102-9IG	8'-0" to 9'-0"	Grill	Varies
102-9IM	8'-0" to 9'-0"	Masonry	Varies
102-10IG	9'-0" to 10'-0"	Grill	Varies
102-10IM	9'-0" to 10'-0"	Masonry	Varies

**NOTE:** When a door width falls between two track set sizes, specify the smaller size.

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### **Head & Foot Bolts**

# Description

Head and foot bolts are manually operated deadbolts mounted into the top and bottom of the door. They are operated by a spanner type key.

## **Applications**

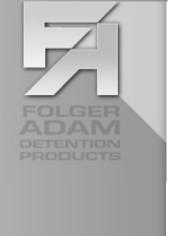
Head and foot bolts are used to secure the inactive leaf of a pair of doors. They may be specified for hollow metal or grille type doors.

#### **Standard Features**

- Malleable iron case For strength. (The 7 gauge steel covers are omitted for hollow metal doors, because the lock mechanism is protected by the door structure).
- Corrosion resistant working parts For durability.
- 3/4" throw, 1" diameter steel deadbolt Projects 3/8" from the case when retracted in grille model, 7/8" in hollow metal model.
- Tension mechanism Prevents bolt from unlocking by vibration.
- Non handed Reversible.
- Supplied With flat-head security screws. Model 105G supplied with 3/8"-16 x 3/4" screws; 105HM supplied with 1/4"-20 x 3/4" screws.
- Finish USP primed for painting

## **Optional Features**

- Bolt projection May be customized to conditions. Consult factory.
- Finish Galvanized for exterior use or in damp locations.



Model 105G - For grille doors. Model 105HM - For hollow metal doors.

#### **Accessories**

- 105-4B Mortise head bolt keeper Forms a cavity to contain and protect the head bolt. Includes flat head security screws for mounting.
- 105-4BL Mortise head bolt keeper with switch Same as above, with a switch for remote monitoring. Includes flat head security screws for mounting.
- 105-FBR Foot bolt receptacle Receives and contains the foot bolt. Self cleaning, spring loaded mechanism, all brass contruction.
- 105K Spanner key Locks and unlocks bolts.

### **Accessory Standard Features**

- Heavy duty construction 7 gauge steel keeper.
- Finish USP primed for painting.

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## **Access Panels**

## Description

Access panels provide detention quality security for openings to utility or plumbing spaces. The panels open easily, and are supplied with a No.12 lever tumbler deadlock.

#### Models Available

 Model 416 - Swinging door type panel is provided with two No. 3FS hinges.

May be ordered for embedment in poured concrete or masonry walls. Masonry brick anchors may be supplied as required.

## **Standard Features**

- Heavy duty construction Welded steel for strength
- Solid access door 7 gauge steel with 1-1/4" flange, 4 sides.
- Durable fram e 3/16" thick steel angle.
- Secure locking Furnished with No.12 deadlock.
- Finish USP primed for painting.

### **Optional Features**

- **High security deadlock** A six lever tumbler No.12-6 lock may be specified. Specify Model 416-6.
- **Custom sizes** A range of panel sizes may be furnished. Contact the factory with your requirements.





Model	Description	Height	Width	Weight (lbs.)
	Flange size	40"	28"	95 lbs.
416 / 416-6 Swinging Door Type	Clear opening	34"	22"	
gg =	Rough opening	36-3/8"	24-3/8"	

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