



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

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- 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 1/2FM 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. They 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 requirements, 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 manually-operated 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 requirements, 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 constructed 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.

Models Available

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 construction.
- **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 frame** - 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.

Dimensional Data

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

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