

# TABLE OF CONTENTS

Click a category to jump to that section. On other pages, click index button  (near page number) to return here. You may navigate using the PDF Bookmarks in browser/PDF viewer by clicking this icon  to the upper-left corner.

## DOOR CLOSERS – SURFACE MOUNTED

Grade 1 Certified • Adjustable power sizes 1–6 • ADA • UL 10C	
N181-6BC .....	1
N19S1-6BC .....	2
N18S1-6BC .....	3
Accessories / Bracket, Plate & Arm for Door Closers .....	4
N18CI-1-6BC .....	5
Accessories for N18CI-1-6BC .....	6

## DOOR CLOSERS – OVERHEAD CONCEALED

Grade 1 Certified • Adjustable power sizes 1–3 / 3–5 • UL 10C	
DHC2000-BC Series Adjustable Spring Closer .....	7
Accessories for DHC2000-BC Series .....	8

## ALUMINUM CONTINUOUS GEARED HINGES .....

Concealed Leaf Hinges / Heavy Weight .....	10–15
Half Surface Hinge / Heavy Weight .....	16–18
Full Surface Hinges / Heavy Weight .....	19–27

## BUTT HINGES .....

## CYLINDRICAL LOCKS

DH40 Series — Grade 2 / Clutched Locksets .....	29–31
DH50 Series — Grade 1 / Clutched Locksets .....	32–33

## DEADBOLTS

DH77700 Series Heavy-Duty Deadbolts (Grade 1) .....	34
DH77300 Series Standard Duty Deadbolts (Grade 2) .....	35
DH77320 Series Thumbturn Deadbolts (Grade 2) .....	36

## MORTISE LOCKS

DHM7800 Mechanical Mortise Lockset (Grade 1) .....	37–39
--	-------

## KEYPAD

EntryCheck™ 918 .....	40
-----------------------	----

## MAGLOCKS

MagLock 600 lb / 1200 lb and Accessories .....	41–42
--	-------

## STOREFRONT HARDWARE

Deadlatch, Hookbolt & Deadlock .....	43
Threshold Bolt Kit, Header Bolt Sets & Header Sign .....	44
Mortise & Rim Cylinders, Thumbturns & Lock Indicators .....	45
Paddle Handles, Cam Plugs & Lever Handles .....	46
Push Pull Bars & Pull Handles .....	47–48
Strike Sets .....	49
Kick-Down Door Holder .....	50

## STOREFRONT HARDWARE (continued)

Aluminum Pivots .....	51
Door Seals & Weatherstrips .....	52

## FLUSHBOLTS .....

## EXIT DEVICES

<b>DH5000 Series (Grade 2)</b> .....	54–55
Panic & Fire-Rated Rim Exit Device (Grade 2) .....	56–57
DH5000 Series Dimensions (Grade 2) .....	57
Panic & Fire-Rated SVR Exit Device (Grade 2) .....	58
Panic-Rated Rim Narrow Design Exit Device (Grade 2) .....	59
Panic-Rated SVR Narrow Design Exit Device (Grade 2) .....	60
Panic & Fire-Rated Rim Exit Device (Grade 1) .....	61
DH5900 Series Dimensions (Grade 1) .....	62
Panic & Fire-Rated SVR Exit Device (Grade 1) .....	63
Escutcheon Levers .....	64
Standard & Raised-Lip Pull Plates .....	65
Levers (Exit Device) .....	66
Accessories (Exit Devices) .....	67
<b>DH8000 Series (Grade 1)</b> .....	68
Narrow-Stile Rim Exit Devices (Grade 1) .....	69
DH8000 Series Dimensions (Grade 1) .....	70
Narrow SVR Exit Devices (Grade 1) .....	71
Narrow-Design CVR Exit Devices (Grade 1) .....	72
Wide-Stile Rim Exit Devices (Grade 1) .....	73
Wide-Stile Rim Series Dimensions (Grade 1) .....	74
Wide Mortise Lock Exit Devices (Grade 1) .....	75
Wide SVR Exit Devices (Grade 1) .....	76
Wide Less Bottom Rod SVR Exit Devices (Grade 1) .....	77
Wide CVR Exit Devices (Grade 1) .....	78
Wood Door CVR Exit Devices (Grade 1) .....	79
Electrified Alarm Exit Devices .....	80
Square Outside Escutcheon Lever Trims .....	81
Round Outside Escutcheon Lever Trims .....	82
Square Pull Plate Outside Trims (For Wide Stile) .....	83
Square Pull Plate Outside Trims (For Narrow Stile) .....	84
<b>Auxiliary Hardware</b> .....	85
<b>Quiet Duo™ LR100 Series Electric Latch Retraction Kit</b> .....	86
LR100™ Ordering Info — Major Brands & Series .....	87–90
<b>Non-Latching Switch Bar</b> .....	91
Non-Latching Switch Bar Installation .....	92
<b>Non-Latching Pressure-Sense Bar</b> .....	93
Non-Latching Pressure-Sense Bar Installation .....	94
<b>LOW-ENERGY AUTOMATIC OPERATORS</b> .....	95
<b>HOLLOW METAL DOORS &amp; FRAMES</b> .....	96

# DOOR CLOSERS – SURFACE MOUNTED

## Grade 1 Certified Heavy Duty Commercial Door Closer

# N181-6BC

### COMPLIANCE & CERTIFICATION

- UL & cUL Listed; conforms to UL 10C fire-rating standards
- ADA compliant for barrier-free accessibility
- Certified ANSI/BHMA A156.4 Grade 1, ensuring maximum durability and reliability

### ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6), versatile control
- Standard adjustable sweep & latching speeds
- Standard adjustable backcheck ensures smooth and controlled operation

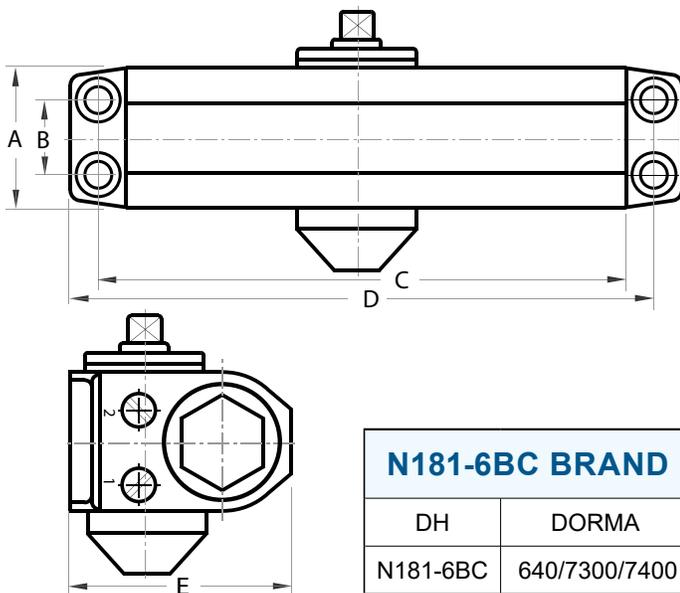
### MATERIAL & DURABILITY

- Robust cast-aluminum body combined with a heavy-duty forged steel arm for enhanced durability
- Durable impact-resistant plastic cover protects internal components, extending product lifespan

### INSTALLATION & MOUNTING VERSATILITY

- Tri-pack installation: Regular arm, top jamb, or parallel arm mounting options included
- Standard self-tapping and self-drilling screws for straightforward installation

### DIMENSIONED DRAWINGS



### WARRANTY

- Lifetime warranty, full assurance of quality & reliability

### FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

DESCRIPTION	DIMENSIONS
A. Closer Body Height	1 13/16" (46 mm)
B. Vertical Mounting Holes	3/4" (19 mm)
C. Horizontal Mounting Holes	9 1/16" (230.2 mm)
D. Length of Closer Body	9 3/4" (247.7 mm)
E. Projection from Door	2 3/4" (69.9 mm)

### N181-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	DORMA	HAGER	LCN	NORTON	PARKER	SARGENT	YALE
N181-6BC	640/7300/7400	5300	1070/1370	1600	900	1130	50

### ACCESSORIES

See page 4

800-449-1462 (Phone)

224-241-8050 (Fax)

Click to eMail [info@DirectHardware.com](mailto:info@DirectHardware.com)

Click Back to [DirectHardware.com](http://DirectHardware.com)



[Back to Index](#)

# DOOR CLOSERS – SURFACE MOUNTED

## Grade 1 Certified Heavy Duty Commercial Door Closer

# N19S1-6BC

### COMPLIANCE & CERTIFICATION

- UL & cUL Listed; conforms to UL 10C fire-rating standards
- Fully ADA compliant, ensuring accessibility
- ANSI/BHMA A156.4 Grade 1 Certified for exceptional quality and reliability

### ADJUSTABILITY & PERFORMANCE

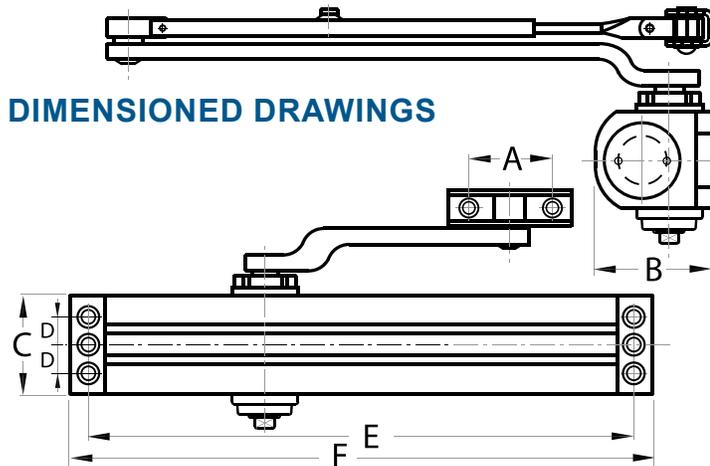
- Adjustable spring power (sizes 1-6), versatile control
- Standard adjustable sweep & latching speeds
- Built-in adjustable backcheck for secure and controlled door closure

### MATERIAL & DURABILITY

- Die-cast aluminum body provides robust, corrosion-resistant performance
- Durable forged-steel arm for long-term strength
- Heavy-duty, impact-resistant plastic cover protection

### INSTALLATION & MOUNTING VERSATILITY

- Standard tri-pack for versatile installation options: regular arm, top jamb, and parallel arm mounting
- Standard self-tapping and self-drilling screws for easy and convenient installation



### DIMENSIONED DRAWINGS

### WARRANTY

- Lifetime warranty, full assurance of quality & reliability

### FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

DESCRIPTION	DIMENSIONS
A. Arm Shoe Spacing	1 3/4" (44.5 mm)
B. Projection from Door	2 3/8" (60.3 mm)
C. Closer Body Height	2" (50.8 mm)
D. Vertical Mounting Holes	9/16" (14.3 mm)
E. Horizontal Mounting Holes	11 1/8" (282.6 mm)
F. Length of Closer Body	11 7/8" (301.6 mm)

### N181-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	DORMA	FALCON	HAGER	LCN	NORTON	SARGENT	YALE
N19S1-6BC	8600	SC80	5200	1460	8501	1431	3501

### ACCESSORIES

See page 4

# DOOR CLOSERS – SURFACE MOUNTED

## Grade 1 Certified Heavy Duty Commercial Door Closer

# N18S1-6BC

### COMPLIANCE & CERTIFICATION

- UL and cUL Listed, UL 10C fire-rated
- ANSI/BHMA A156.4 Grade 1 Certified
- Meets ADA accessibility standards

### ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6)
- Independently adjustable sweep & latching speeds
- Adjustable backcheck for enhanced door control

### MATERIAL & DURABILITY

- Cast aluminum closer body
- Heavy-duty forged steel arm
- Durable impact-resistant plastic cover included
- Includes self-tapping & drilling screws
- Lifetime warranty for added assurance



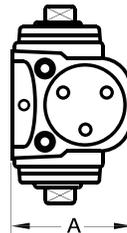
### FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

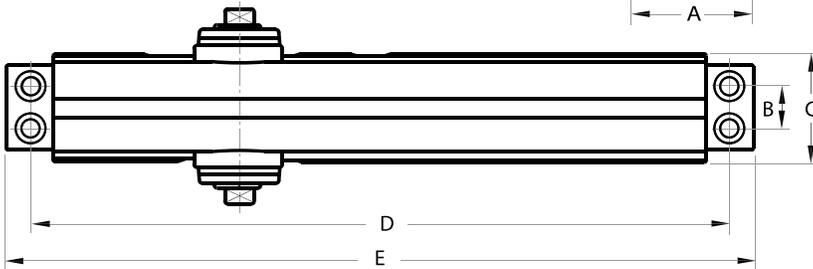


### INSTALLATION & MOUNTING VERSATILITY

- Tri-pack installation: Regular arm, top jamb, or parallel arm mounting options included



### DIMENSIONED DRAWINGS



### WARRANTY

- Lifetime warranty, full assurance of quality & reliability

DESCRIPTION	DIMENSIONS
A. Projection from Door	2 1/32" (51.6 mm)
B. Vertical Mounting Holes	3/4" (19 mm)
C. Closer Body Height	1 7/8" (47.6 mm)
D. Horizontal Mounting Holes	12" (304.8 mm)
E. Length of Closer Body	12 3/4" (323.9 mm)

### N18S1-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	CORBIN	DORMA	DOR-O-MATIC	HAGER	LCN	NORTON	RUSSWIN	SARGENT	YALE
N18S1-6BC	DC3200 x M76	8600	SC80	5200SLC	1460-72	8301	9000	1430	3301

### ACCESSORIES

See page 4

# ACCESSORIES

## Surface Mounted Door Closer Accessories / Bracket, Plate and Arm

### ACCESSORIES FOR N19S1-6BC

N19SLDP Large Drop Plate



N19SNDP Narrow Drop Plate



### ACCESSORIES FOR N18S1-6BC

N18SLDP Large Drop Plate

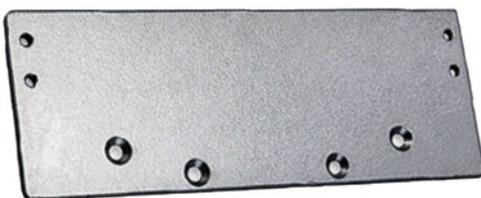


N18SPNDP Narrow Drop Plate



### ACCESSORIES FOR N181-6BC

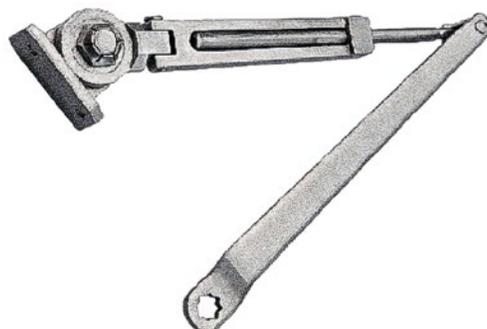
N505LDP Large Drop Plate



N505NDP Narrow Drop Plate



1814HOARM Hold Open Arm



# DOOR CLOSERS – SURFACE MOUNTED

## Grade 1 Certified Heavy Duty Commercial Door Closer

# N18CI-1-6BC

### COMPLIANCE & CERTIFICATION

- UL & cUL Listed; meets UL 10C fire-rating requirements
- Compliant with Federal Accessibility standards
- ANSI A156.4 Grade 1 Certified

### ADJUSTABILITY & PERFORMANCE

- Adjustable spring power (sizes 1-6)
- Independently adjustable sweep & latching speeds
- Adjustable backcheck ensures controlled door closure

### MATERIAL & DURABILITY

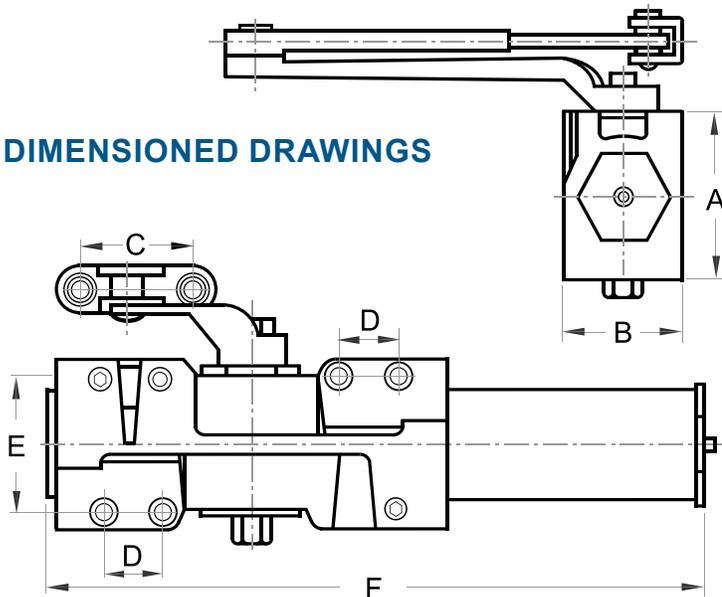
- Heavy-duty cast-iron closer ensures long-lasting durability
- Forged-steel arm provides strength and reliability
- Durable impact-resistant plastic cover included

### INSTALLATION & MOUNTING VERSATILITY

- Standard tri-pack included for regular arm, top jamb, and parallel arm mounting options
- Supplied with standard self-tapping and drilling screws for easy installation



### DIMENSIONED DRAWINGS



### WARRANTY

- Covered by a lifetime warranty for added peace of mind

### FINISHES

- **AL** – Aluminum (Silver)
- **DU** – Duro (Dark Bronze)
- **BK** – Black

DESCRIPTION	DIMENSIONS
A. Closer Body Height	2 3/4" (69.9 mm)
B. Projection from Door	2" (50.8 mm)
C. Arm Shoe Spacing	1 15/16" (49.2 mm)
D. Horizontal Mounting Holes	1" (25.4 mm)
E. Vertical Mounting Holes	2 1/4" (57.2 mm)
F. Length of Closer Body	11" (279.4 mm)

### N18CI-1-6BC BRAND EQUIVALENTS (CROSS-REFERENCE CHART)

DH	AMERICAN EAGLE	CORBIN RUSSWIN	DESIGN HARDWARE	DOR-O-MATIC	HAGER	LCN	NORTON	SARGENT	YALE
N18CI-1-6BC	7100	DC3000/DC6200	1070/1370	1600	900	4040	50	281/350	4400

# ACCESSORIES

## Surface Mounted Door Closer Accessories / Bracket, Plate and Arm

### ACCESSORIES FOR N18CI-1-6BC

N18CI-A1 Drop Plate



N18CI-A2 Drop Plate



N18CI-A3 Drop Plate



N18CI-A4 Drop Plate



N18CIHDHOARM  
Heavy Duty Hold Open Arm



N18CIHDCUHOARM  
Heavy Duty Spring Cush Hold Open Arm



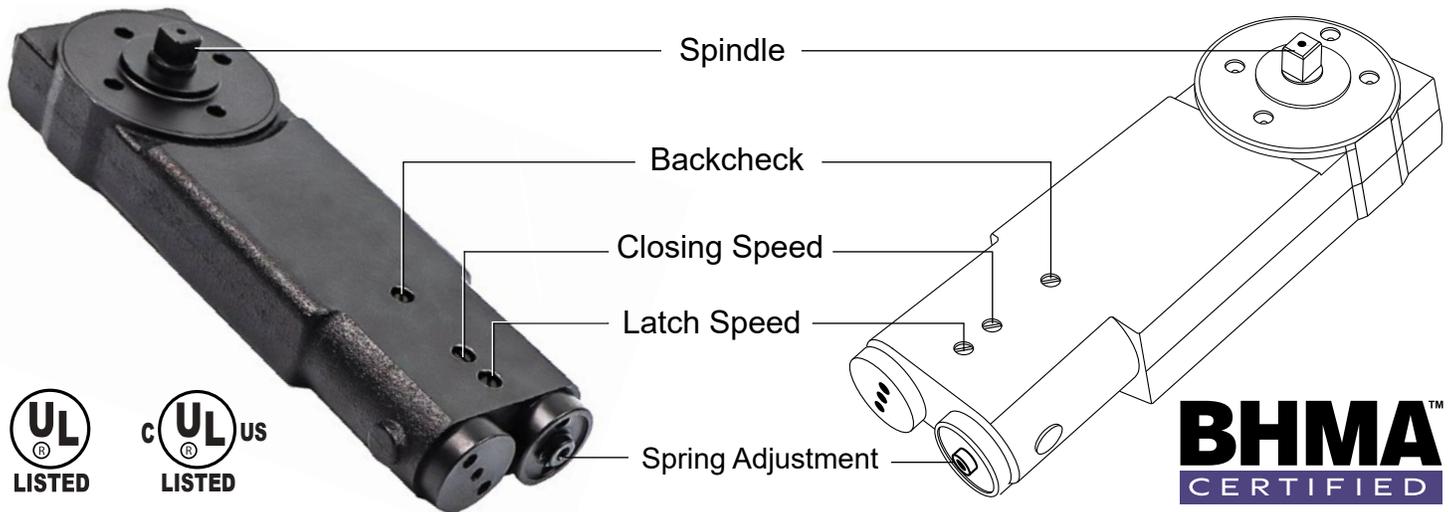
N18CIHDCUARM  
Heavy Duty Spring Cush Arm



# DOOR CLOSERS – OVERHEAD CONCEALED

Grade 1 Certified Overhead Concealed Door Closer / Adjustable with Backcheck

## DHC2000-BC Series — ADJUSTABLE SPRING CLOSER



### COMPLIANCE & CERTIFICATION

- UL & cUL Listed; meets UL10C fire-rating standards for non-hold open
- ANSI/BHMA A156.4 Grade 1 certified for maximum quality assurance

### DOOR COMPATIBILITY & APPLICATIONS

- Suitable for center-hung & offset doors (double/single acting)
- Accommodates wood, metal, or aluminum doors over 1 3/4" (44.5 mm) thick
- Fits neatly inside standard aluminum frame headers, enhancing aesthetics and security
- Standard opening angles of 90° and 105°, available with optional hold-open features
- Interchangeable with common hole patterns from other leading brands

### PERFORMANCE & ADJUSTABILITY

- Features fully adjustable closing speed, latch speed, and backcheck functions
- All-weather fluid for reliable performance under varying climatic conditions
- Adjustable spring power settings (sizes 1–3 or 3–5)

### CONSTRUCTION & DURABILITY

- Constructed from durable cast iron, ensuring long-term reliability
- Equipped with a standard heavy-duty 1/2" (12.7 mm) spindle for added strength

### WARRANTY

- Lifetime warranty against defects, ensuring customer peace of mind

Item No.	Max Door	Door Weight Opening	Power Size	Maximum Opening	Remark
DHC2013-90-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	90°	NON-HOLD OPEN 90°, UL LISTED
DHC2013-90H-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	90°	HOLD OPEN 90°
DHC2013-105-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	105°	NON-HOLD OPEN 105°, UL LISTED
DHC2013-105H-BC	32" TO 48" × 96"	200 LB.	SIZE 1-3	105°	HOLD OPEN 90°
DHC2035-90-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	90°	NON-HOLD OPEN 90°, UL LISTED
DHC2035-90H-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	90°	HOLD OPEN 90°
DHC2035-105-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	105°	NON-HOLD OPEN 90°, UL LISTED
DHC2035-105H-BC	36" TO 48" × 96"	250 LB.	SIZE 3-5	105°	HOLD OPEN 105°

# ACCESSORIES – OVERHEAD CONCEALED DOOR CLOSER

Photo	Item No.	Description
	DHC2000-DUMMY	OHC Dummy Closer — Non-functional unit, serves as pivot only
	DHOHC-2000-FS	Anchor Set (Included with standard packing)
	DHARM-2000-A	“A” Type End Load Arm — For 1” deep top rail
	DHARM-2000-K	“K” Type End Load Arm — For 5/8” (16 mm) deep top rail
	DHARM-2000-PT	“PT” Type End Loading Top Arm Assembly — For 7/8” (22 mm) deep top rail
	DHARM-2000-S	“S” Type Side Load Arm — For 1/2” deep top rail
	DHARM-2000-SA	“A” Type Short End Load Arm — For 1” deep top rail
	DHARM-2000-JO	“JO” Type Offset Arm — For 9/16” (14 mm) narrow top rail
	DHARM-2000-VO	“VO” Type Offset Arm — For 7/8” (22 mm) deep top rail
	DHOHC-2000-G	Adjustable Floor-Mount Bottom Pivot Set (Optional)
	DHOHC-2000-GE	Adjustable Threshold-Mount Bottom Pivot Set (Optional)
	DHOHC-2000-DP	Adjustable Dual-Purpose Bottom Pivot Set (Standard)

# HEAVY WEIGHT ALUMINUM CONTINUOUS GEARED HINGES

Direct Hardware Heavy Weight Aluminum Continuous Geared Hinges are designed for durability and reliable performance in high-traffic environments. Unlike traditional pin-based hinges, our geared design features a rotating joint that evenly distributes weight across the entire length of the frame—reducing stress and significantly minimizing wear over time.

DHHD157



DHHD210



DHHD112



DHHD053



Item No.	Type	Size	Finish	QTY
DHHD053	Half-Surface	83"	Alum / Duro	1
DHHD053	Half-Surface	95"	Alum / Duro	1
DHHD053	Half-Surface	119"	Alum / Duro	1
DHHD057	Full-Surface	83"	Alum / Duro	1
DHHD057	Full-Surface	95"	Alum / Duro	1
DHHD057	Full-Surface	119"	Alum / Duro	1
DHHD157	Full-Surface	83"	Alum / Duro	1
DHHD157	Full-Surface	95"	Alum / Duro	1
DHHD157	Full-Surface	119"	Alum / Duro	1
DHHD210	Full-Surface	83"	Alum / Duro	1
DHHD210	Full-Surface	95"	Alum / Duro	1
DHHD210	Full-Surface	119"	Alum / Duro	1
DHHD111	Full-Mortise	83"	Alum / Duro	1
DHHD111	Full-Mortise	95"	Alum / Duro	1
DHHD111	Full-Mortise	119"	Alum / Duro	1
DHHD112	Full-Mortise	83"	Alum / Duro	1
DHHD112	Full-Mortise	95"	Alum / Duro	1
DHHD112	Full-Mortise	119"	Alum / Duro	1
DHHD224	Full-Mortise	83"	Alum / Duro	1
DHHD224	Full-Mortise	95"	Alum / Duro	1
DHHD224	Full-Mortise	119"	Alum / Duro	1

## CROSS-REFERENCE CHART

DH	ABH	IVES	MCKINNEY	NGP	PEMKO	ROTON	SELECT	STANLEY	ZERO
DHHD053	A530HD	053XY		HD5300		780-053HD	SL53 HD600	679HD	925DB
DHHD057	A571HD					780-057HD	SL60 HD600		
DHHD111	A111HD		MCK-14HD	HD1800	FMSLIHD	780-111HD	SL18 HD600		
DHHD112	A110HD	112HD	MCK12HD	HD1100	FMSLFHD	780-112HD	SL11 HD600	661HD	910DB
DHHD157	A570HD	157XY	MCK58HD	HD5700	FSCPHD	780-157HD	SL57 HD600	664HD	935DB
DHHD210	A210HD	210XY	MCK22HD	HD2100	FSHD	780-210HD	SL21 HD600	665HD	930DB
DHHD224	A240HD	224HD	MCK25HD	HD2400	FMHD	780-224HD	SL24 HD600	662HD	914DB

# CONTINUOUS GEARED HINGES

## Full-Mortise Aluminum Continuous-Geared Hinges / Heavy-Duty

**DHHD111 and DHHD112** are aluminum continuous geared concealed-leaf hinges.

DHHD111 has a 1/8" (3.18 mm) door inset; DHHD112 is flush door.

Both models fit standard frames without hinge prep and can be installed with or without reinforcements depending on door weight. Provide a minimum 5/16" (7.94 mm) clearance between the door's hinge edge and the frame rabbet.

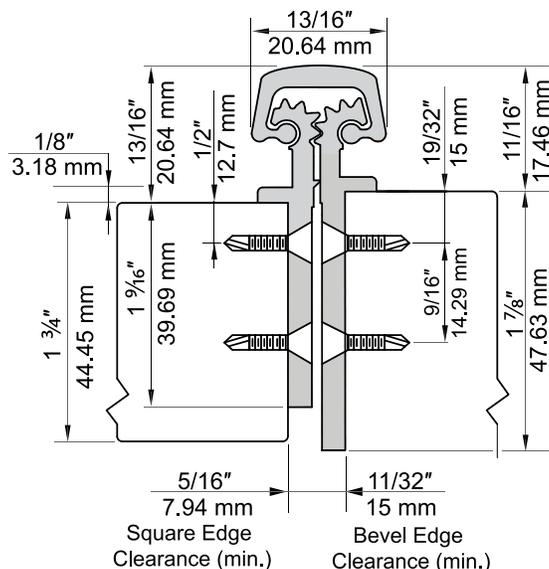


Fig. 1 — DHHD111

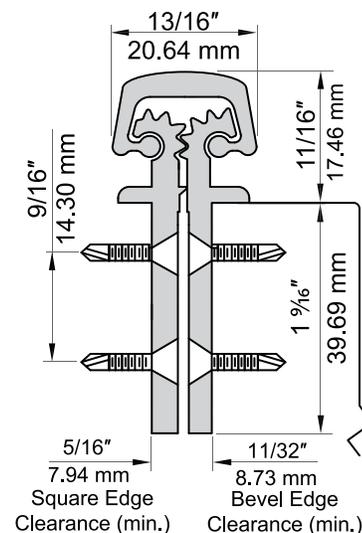


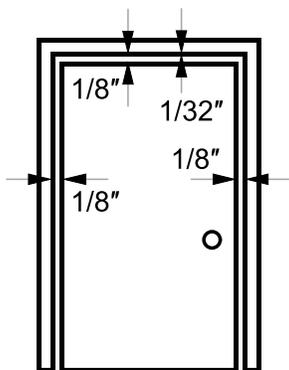
Fig. 2 — DHHD112

### Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than the nominal door height to avoid interference with thresholds or carpet. If field-trimming is required, first confirm the handing and hinge orientation. Mark and trim from the bottom only.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

### Door Clearance Required

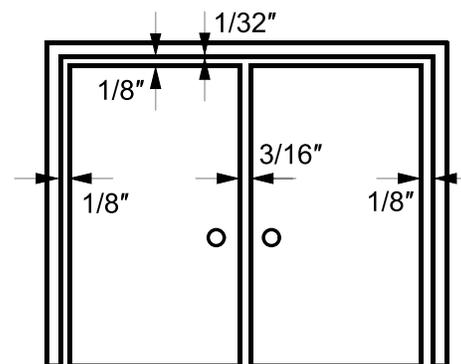


#### SINGLE DOOR

Hinge thickness: 5/16" (7.94 mm)  
 Allowance for frame irregularities: 1/32" (0.79 mm)  
 Typical latch-side clearance: 1/8" (3.18 mm)  
 Total: 15/32" (11.90 mm)

#### DOUBLE DOORS

First hinge thickness 5/16" (7.94 mm)  
 First Allowance for frame irregularities: 1/32" (0.79 mm)  
 Typical clearance between doors: 3/16" (4.78 mm)  
 Second hinge thickness 5/16" (7.94 mm)  
 Second allowance for frame irregularities: 1/32" (0.79 mm)  
 Total: 7/8" (22.23 mm)



### Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 5/16" (7.94 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

### What to Order

Specify: • Model (DHHD111 or DHHD112) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

# DHHD111 AND DHHD112 INSTALLATION INSTRUCTIONS

## Frame Preparation (See Fig. 3)

1. With the hinge open, place the frame leaf against the frame rabbet so the alignment rib is flush with the frame face along its full length. Position the top of the hinge 1/16" below the header (max 1/8"). Tip: use a 1/16" shim to allow for initial bearing settling.
2. Mark and center-punch all screw-hole locations accurately.
3. Metal frames: 16-gauge: no pilot holes required with the supplied #12 self-drilling screws. Thicker than 16-gauge: drill and tap all holes #12-24 before installing screws.
4. Do not attach the hinge to the frame yet.

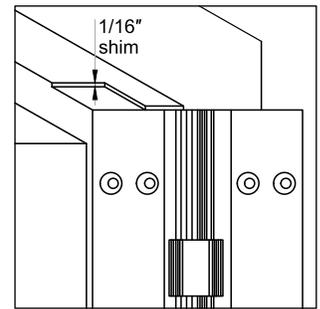


Fig. 3 — Frame Preparation

## Door Preparation (See Fig. 4)

1. With the hinge open, place the door leaf at the door edge so the alignment rib is flush with the door face along its full length. Align the top of the hinge with the top edge of the door.
2. Metal doors:
  - 16-gauge hollow metal: no pilot holes required with the supplied #12 self-drilling screws.
  - Thicker than 16-gauge: drill and tap all holes #12-24 before installing screws.
 Wood doors: if using the optional #12 wood screws (included with LL models), pre-drill with a 5/32" (4 mm) bit.
3. Attach the hinge to the door. Metal doors: use the supplied #12 self-drilling screws (recommended driver speed 1,900–2,500 RPM). Wood doors: use the optional #12 wood screws.

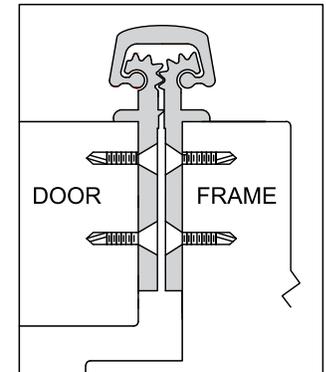


Fig. 4 — Door Preparation

## Hanging the Door (See Fig. 5)

1. With the hinge attached to the door, set the door at 90° to the frame and fasten the frame leaf to the rabbet. Metal frames: use the supplied #12 self-drilling screws (driver speed 1,900–2,500 RPM). Wood frames: use the optional #12 wood screws.
2. Perform a gentle trial swing and verify smooth operation and proper clearances.

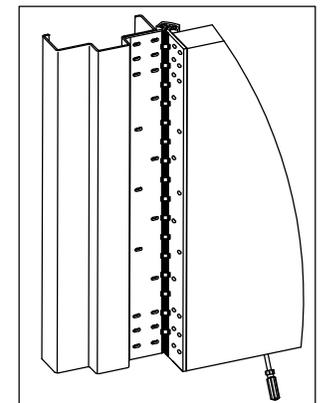


Fig. 5 — Hanging the Door

## Adjusting the Door (See Fig. 6)

1. If lateral adjustment is required due to excessive or uneven door/frame clearance, shim as needed:
  - a) Minor adjustment: build up cloth duct tape shims to the required thickness under the frame leaf; a typical starting thickness is 1 1/2" (38.10 mm) wide tape applied in stepped layers.
  - b) Shift entire door: insert a continuous aluminum shim strip under the frame leaf (available in 1/16" and 1/8" thicknesses).
2. Re-tighten all screws and perform a final swing test to confirm smooth operation and correct clearances.

Material	Pilot Holes	Screw Type	Notes
16-ga metal frame/door	Not required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
>16-ga metal	Drill & tap #12-24	#12-24 machine screw	Tap all mounting holes
Wood frame/door	Drill 5/32" (4 mm)	#12 wood screw (optional)	Included with leaf-cover (LL) models

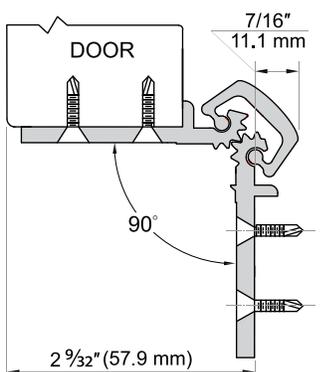
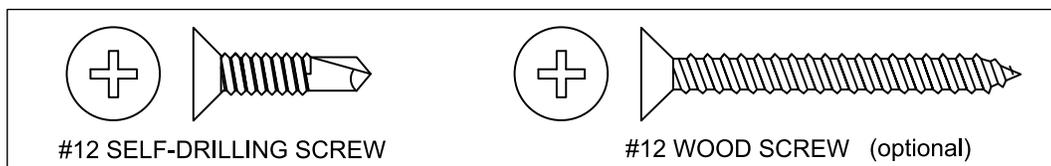


Fig. 6 — Adjustment by Shimming

# DHHD111 AND DHHD112 TEMPLATES & CROSS REFERENCES

## DHHD111 / DHHD112 Templates

(Refer to Fig.1 through Fig.7)

For these items, the frame leaf and door leaf have the same hole positions.

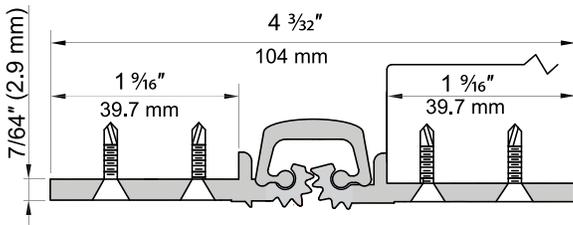
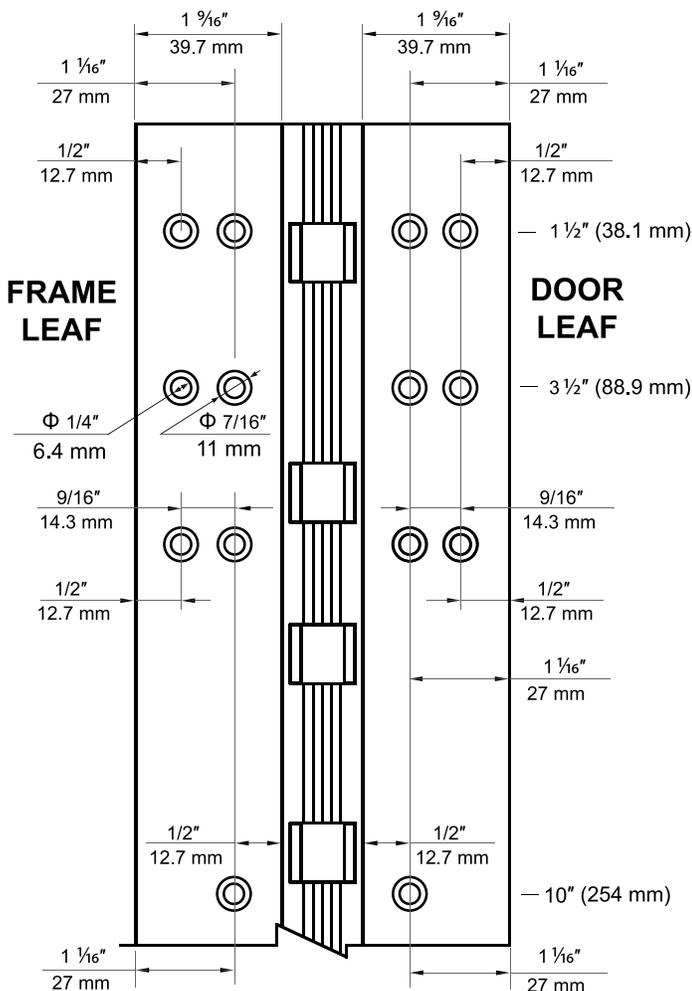


Fig. 7 — Templates & Hole Patterns

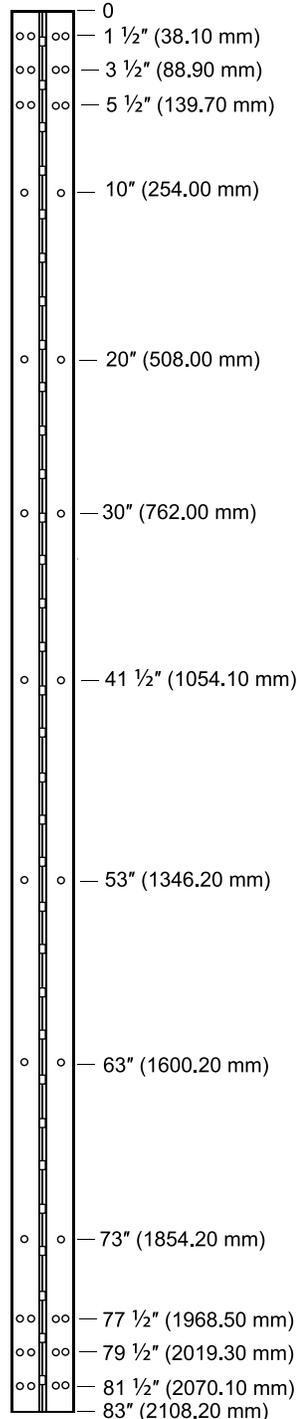


95": 42 fasteners and 36 bearings

83": 38 fasteners and 32 bearings

Frame Leaf Hole Positions

Door Leaf Hole Positions



## Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD111	A111HD			MCK1-14HD	HD1800	FMSLIHD	CG311	780-111HD	SL18 HD600		
DHHD112	A110HD	112HD	FM2000	MCK12HD	HD1100	FMSLFHD	CG31	780-112HD	SL11 HD600	661HD	910DB

# CONTINUOUS GEARED HINGES

## Full-Mortise Aluminum Continuous-Geared Hinges / Heavy-Duty

**DHHD224 · Full-Mortise Hinge** is an aluminum continuous-geared, concealed-leaf hinge engineered for durability and smooth operation. This model provides a 1/16" (1.57 mm) door inset and is compatible with standard frames—no hinge prep required. It may be installed with or without reinforcements, depending on door weight. Maintain a minimum clearance of 5/16" (7.94 mm) between the door's hinge edge and the frame rabbet. Hinges are supplied with bearings.

### Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than the nominal door height to avoid interference with thresholds or carpet.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

If field-trimming is required, first confirm the handing and hinge orientation. Mark and trim from the bottom only.

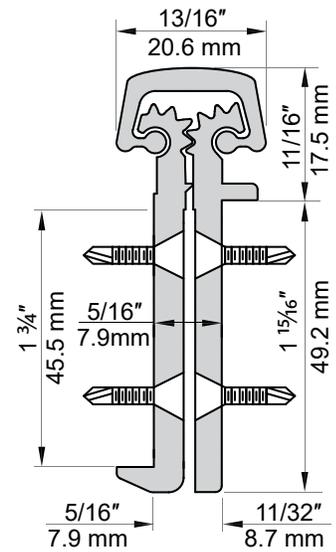
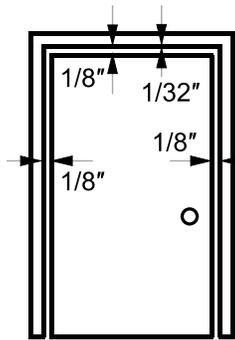


Fig. 1 — DHHD224

### Door Clearance Required

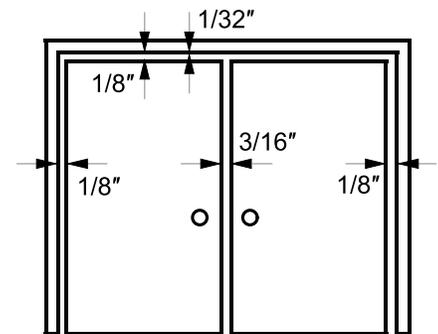


#### SINGLE DOOR

Hinge thickness: 5/16" (8 mm)  
 Allowance for frame irregularities: 1/32" (0.8 mm)  
 Typical latch-side clearance: 1/8" (3.2 mm)  
 Total: 15/32" (11.9 mm)

#### DOUBLE DOORS

First hinge thickness 5/16" (8 mm)  
 First Allowance for frame irregularities: 1/32" (0.8 mm)  
 Typical clearance between doors: 3/16" (4.8 mm)  
 Second hinge thickness 5/16" (8 mm)  
 Second allowance for frame irregularities: 1/32" (0.8 mm)  
 Total: 7/8" (22.2 mm)



### Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 5/16" (7.94 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

### What to Order

Specify: • Model (DHHD224) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

### Quick-Specs

Door Inset	1/16" (1.57 mm)
Handing	LH/RH (or Non-handed)
Clearances	5/16" (8 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

# DHHD224 INSTALLATION INSTRUCTIONS

## Attach Hinge to Frame (See Fig. 2)

1. Ensure the frame face provides a flat, continuous surface at least  $1 \frac{5}{8}$ " (41.28 mm) wide to support the hinge. Mark a reference line on the frame face  $1 \frac{3}{4}$ " (44.45 mm) from the center of the door-to-jamb gap. For a standard  $1/8$ " hinge-side gap, this line will sit  $1 \frac{3}{4}$ " from the gap's center.
2. Align the outer edge of the frame-side hinge leaf to the marked line, with the top of the hinge set  $1/16$ " (1.59 mm) below the header rabbet (maximum  $1/8$ " / 3.18 mm).
3. Swing the door leaf of the hinge out of the way and mark + center-punch all screw-hole locations. Accurate layout is critical for a proper installation.
4. Fastener preparation
  - a) 16-ga metal frames: No pilot holes required when using the supplied #12 self-drilling screws.
  - b) >16-ga metal frames: Drill and tap all holes for #12-24 threads before installing screws.
  - c) Wood frames: Pre-drill with a  $5/32$ " (4 mm) bit for optional #12 wood screws.
5. Fasten to frame:
  - a) Metal frames: Install the supplied #12 self-drilling screws at a driver speed of 1,900–2,500 RPM.
  - b) Wood frames: Use the optional #12 wood screws.

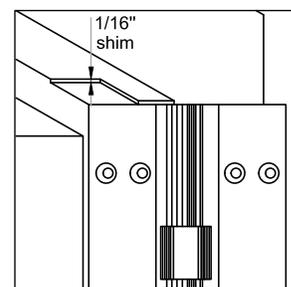


Fig. 2 — Attach Hinge to Frame

## Door Preparation (See Fig. 3)

1. Swing the hinge leaf aside. Set the door in the frame with shims/wedges to achieve uniform clearances on all sides.
2. Provide an additional  $5/32$ " (4 mm) of clearance at the top at the latch edge to allow for initial settling or frame twist after shims are removed and the door's weight transfers to the frame.
3. Secure the door temporarily. Rotate the hinge leaf into position against the door face.
4. Standard sexbolt mounting (recommended): Mark and center-punch the locations for the  $3/8$ " (9.53 mm) through-holes.
  - a) Rotate the hinge leaf away.
  - b) Drill completely through the door at each marked location with a  $3/8$ " bit.
5. Optional mounting without sexbolts: Mark and center-punch for  $7/32$ " (5.56 mm) pilot holes.
  - a) Metal doors: Use the optional #12 self-drilling screws.
  - b) Wood doors: Pre-drill with a  $5/32$ " (4 mm) bit and use optional #12 wood screws.

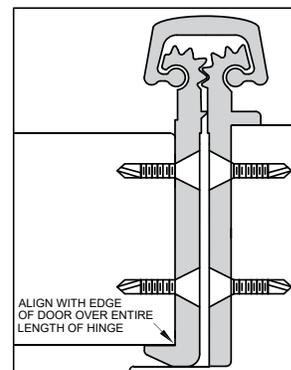


Fig. 3 — Door Preparation

## Attach Door to Hinge (See Fig. 4)

1. Fasten the hinge to the door as illustrated. If added security is required on the push face, the sexbolts may be installed in reverse; note that once the molding is installed, reversed sexbolts will not be accessible for maintenance or removal.
2. Remove all shims and wedges. Gently swing the door and verify smooth operation, alignment, and clearances.

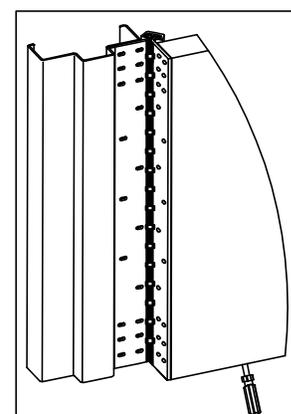


Fig. 4 — Attach Door to Hinge

## Install Leaf Cover on Door Leaf (See Fig. 5)

1. Using the supplied  $5/64$ " (1.98 mm) hex key, locate and loosen the retaining set-screw on the molding edge. Position the long leg of the molding beneath the outer edge of the door leaf, ensuring full-length alignment with the hinge.
2. Starting at the top and working downward, press—or lightly tap—the short leg of the molding into place using a rubber mallet or a hammer with a wood block.
3. Re-tighten the retaining set-screw securely.

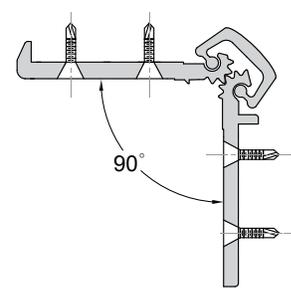
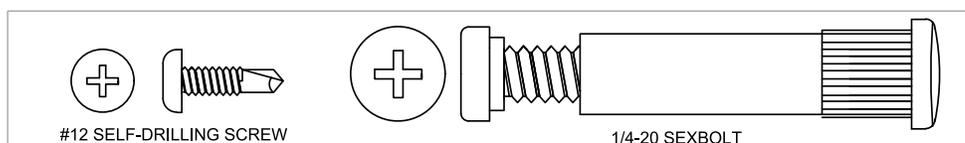


Fig. 5 — Install Leaf Cover on Door Leaf

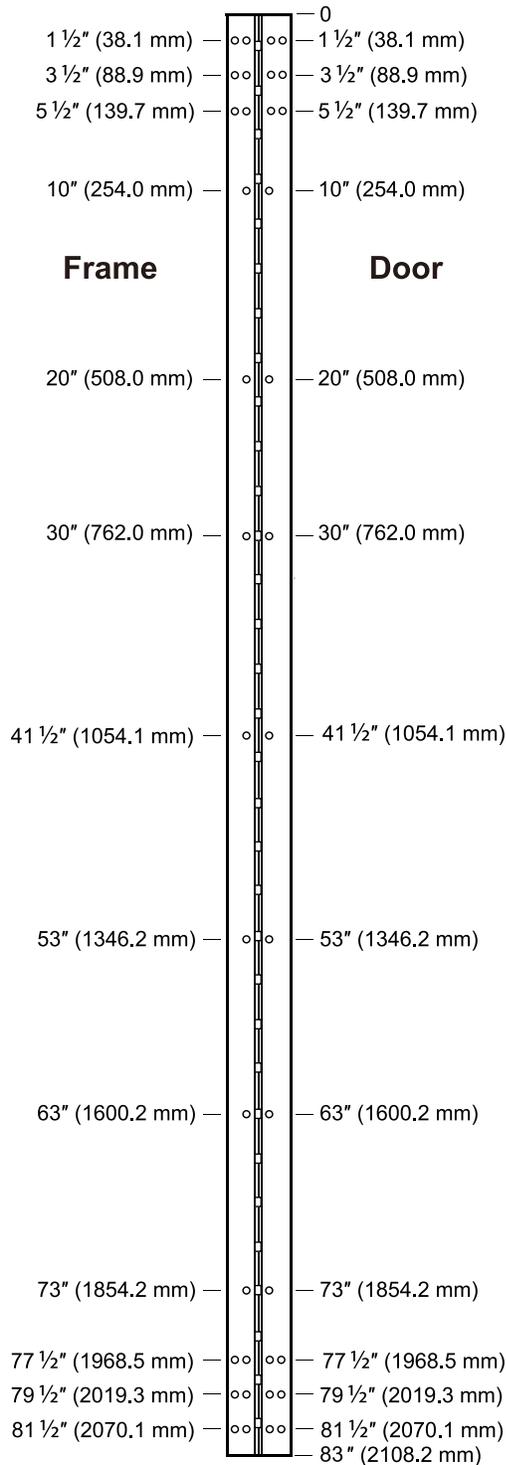


# DHHD224 TEMPLATES & CROSS REFERENCES

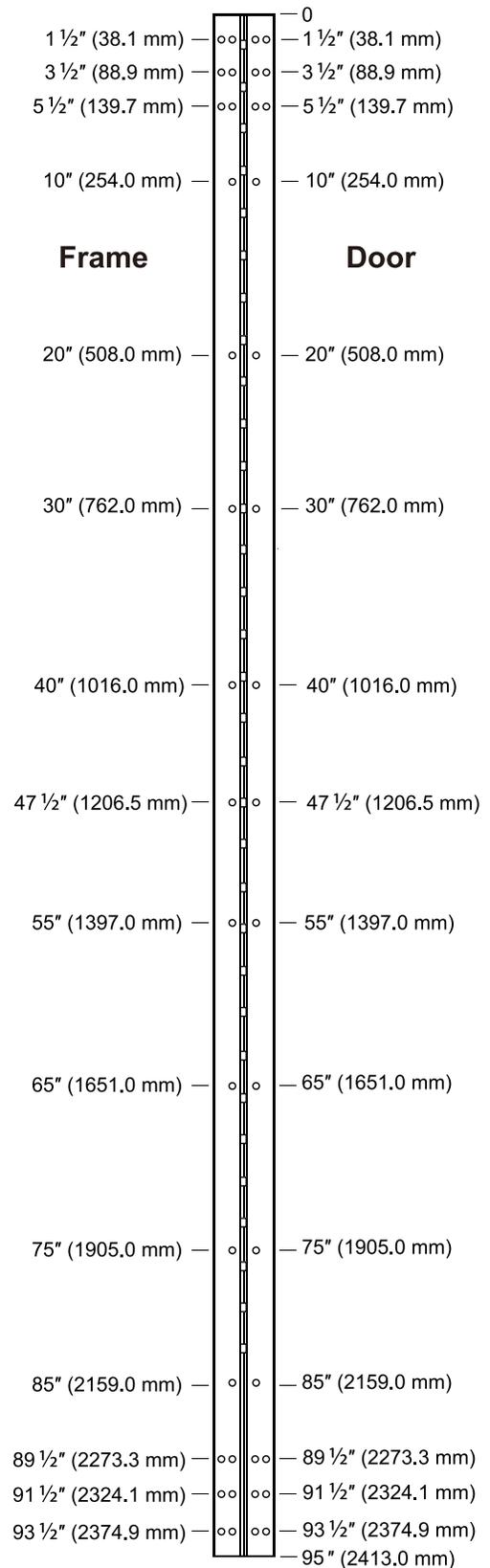
## DHHD224 Templates

(See Fig.1 - Fig.5) Frame/door leaf hole positions are the same.

**83" Template:** 38 fasteners and 32 bearings



**95" Template:** 26 fasteners and 36 bearings



## Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD224	A240HD	224HD	FM2011	MCK25HD	HD2400	FMHD	CH31	780-224HD	SL24 HD600	662HD	914DB

# CONTINUOUS GEARED HINGES

## Half-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

**DHHD053** is an aluminum continuous-geared, half-surface hinge with a 3/32" (2.4 mm) door inset. It fits standard frames without hinge prep and may be installed with or without reinforcements depending on door weight. Maintain a minimum clearance of 3/16" (4.8 mm) between the door's hinge edge and the frame. Hinges are supplied with bearings.

### Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than nominal door height to avoid interference at thresholds or carpet.

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

If shortening is required, first confirm door handing and hinge orientation.

Mark and trim from the bottom only—do not cut the top.

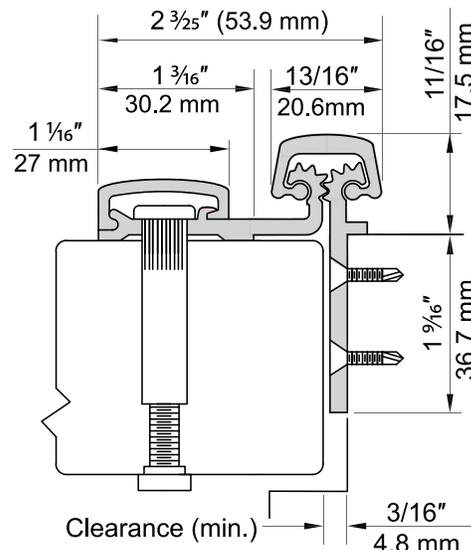
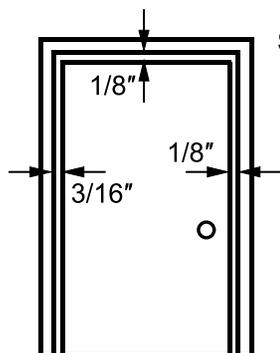


Fig. 1 — DHHD053

### Door Clearance Required

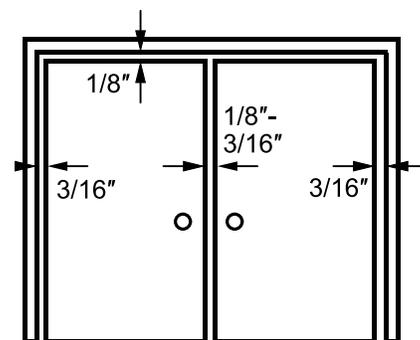


#### SINGLE DOOR

Typical hinge clearance: 3/16" (4.8 mm)  
 Typical latch-side clearance: 1/8" (3.2 mm)  
 Total: 5/16" (7.9 mm)

#### DOUBLE DOORS

First hinge clearance (typical): 3/16" (4.8 mm)  
 Clearance between doors (typical): 3/16" (4.8 mm)  
 Second hinge clearance (typical): 3/16" (4.8 mm)  
 Total: 9/16" (14.3 mm)



### Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 3/16" (4.8 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

### What to Order

Specify: • Model (DHHD053) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

### Quick-Specs

Door Inset	3/32" (2.4 mm)
Handing	LH/RH (or Non-handed)
Clearances	3/16" (4.8 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

# DHHD053 INSTALLATION INSTRUCTIONS

## Attach Hinge to Frame (See Fig. 2)

1. Position the hinge in the door-open orientation.
2. Using a shim, set the hinge so its top is 1/16" (1.6 mm) below the header rabbet (max. 1/8" / 3.2 mm). Seat the frame-leaf alignment flange firmly against the frame face.
3. Mark (or center-punch) one hole at the top and one at the bottom of the frame leaf, then drill at the marks:
  - Metal frames: Drill & tap all mounting holes for #12-24 threads before installing screws.
  - Wood frames: Use optional #12 × 1-1/2 flat-head wood screws.
4. Fasten the frame leaf to the frame:
  - Metal frames: Install the supplied #12 self-drilling screws.
  - Wood frames: Install the optional #12 wood screws.

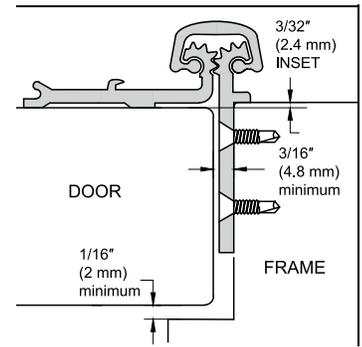


Fig. 2 — Attach Hinge to Frame

## Door Preparation (See Fig. 3)

1. Shim the door in the opening to achieve uniform clearances.
2. Temporarily fasten the door leaf to the door using the locator holes. Remove shims and verify clearances; adjust as needed so the door is aligned when shims are removed.
3. Mark the locations for the top and bottom barrel nuts on the door using a 3/8" (9.53 mm) striker pin.
4. Remove the door and place it on a flat surface. Drill at the marks with a 3/8" (9.53 mm) bit, keeping holes square through both faces.
  - Metal doors: Use the optional #12 self-drilling screws.
  - Wood doors: Pre-drill with a #18 (0.170" / 4.5 mm) bit for the optional #12 wood screws.

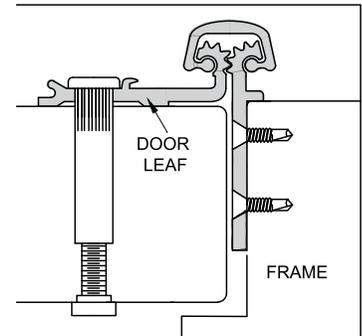


Fig. 3 — Door Preparation

## Attach Door to Hinge (See Fig. 4)

1. Fasten the door to the door leaf as shown; adjust the frame for smooth operation and proper alignment.
2. Complete fastening to the hinge; re-check alignment and remove all shims/wedges.
3. Secure the door to the door leaf with barrel nuts and 1/4-20 sexbolts.

## Install Leaf Cover on Door Leaf (See Fig. 5)

1. With the supplied 5/64" (1.98 mm) hex key, locate and loosen the molding's retaining set-screw.
2. Align the long leg of the molding along the outer edge of the door leaf for full-length contact with the hinge.
3. Starting at the top, press—or gently tap—the short leg into place using a rubber mallet or a hammer with a wood block.
4. Re-tighten the retaining set-screw securely.

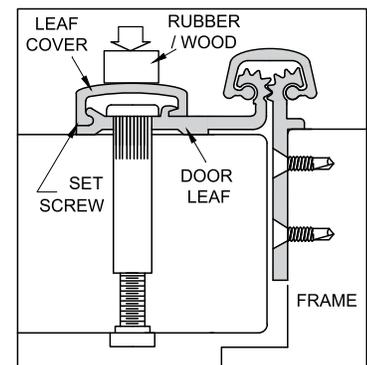


Fig. 4 — Attach Door to Hinge

Material	Pilot Holes	Screw Type	Notes
16-ga metal frame/door	Not required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
>16-ga metal	Drill & tap #12-24	#12-24 machine screw	Tap all mounting holes
Wood frame/door	Drill 5/32" (4 mm)	#12 wood screw (optional)	Included with leaf-cover (LL) models

Wood row: "Use hand-tight torque; do not over-drive.

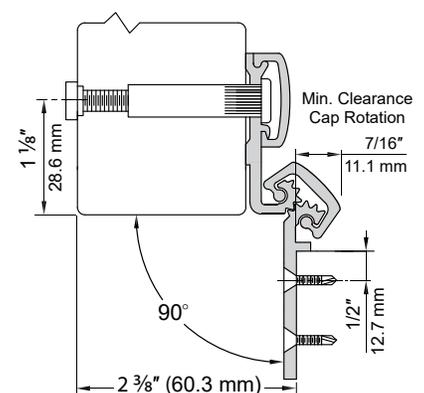
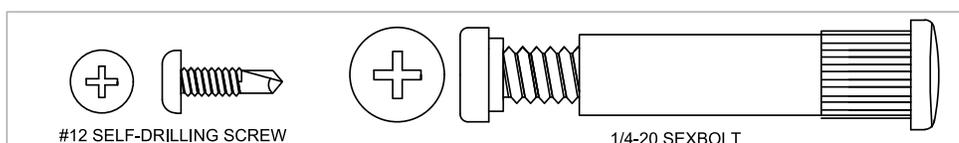
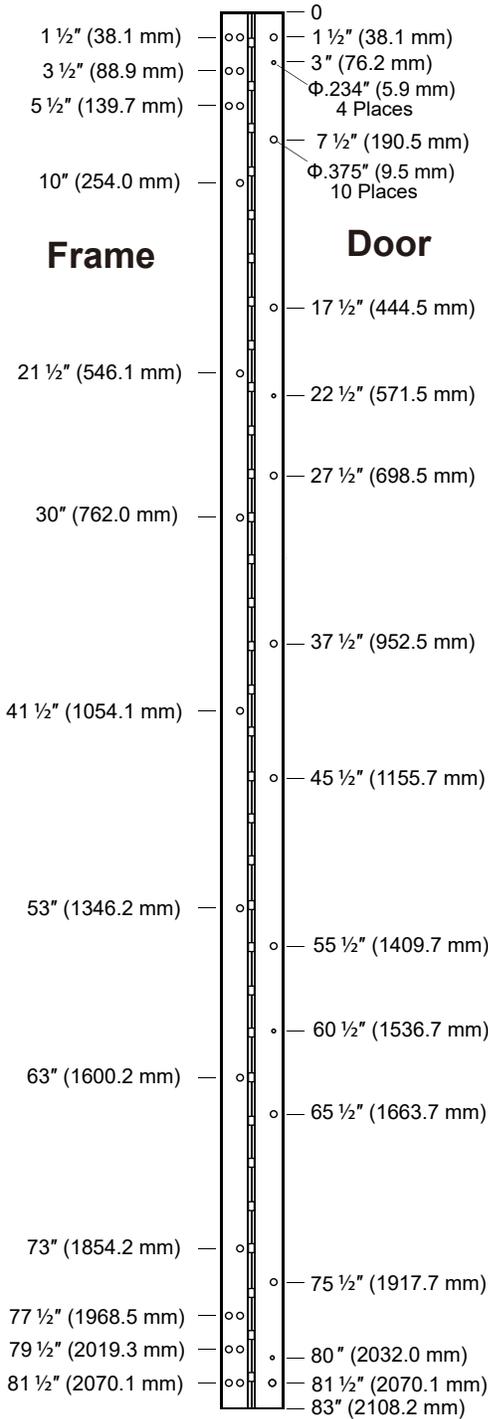


Fig. 5 — Install Leaf Cover on Door Leaf

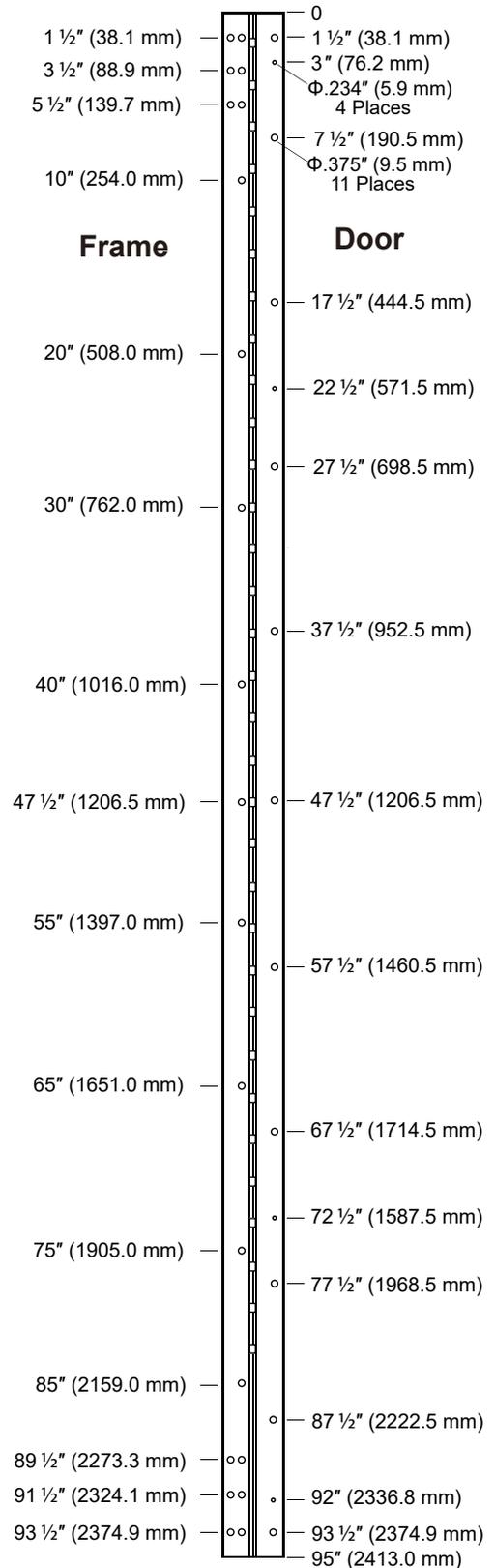
# DHHD053 TEMPLATES & CROSS REFERENCES

## DHHD053 Templates / Leaf Hole Positions

**83" Template:** 29 fasteners and 32 bearings



**95" Template:** 33 fasteners and 36 bearings



## Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD053	A530HD	053XY			HD5300	FMHD	CH31	780-053HD	SL53 HD600	679HD	925DB

# CONTINUOUS GEARED HINGES

## Full-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

**DHHD210 / Full-Surface Hinge** is an aluminum, continuous geared, full-surface hinge designed for a 1/32" (0.8 mm) door inset. It installs on standard frames without hinge preparations and may be used with or without reinforcements, depending on door weight. The frame face must provide a flat bearing surface at least 1 5/8" (41.3 mm) wide. A clearance of 1/16" (1.6 mm) is required between the door's hinge edge and the frame rabbet. Hinges are supplied with bearings.

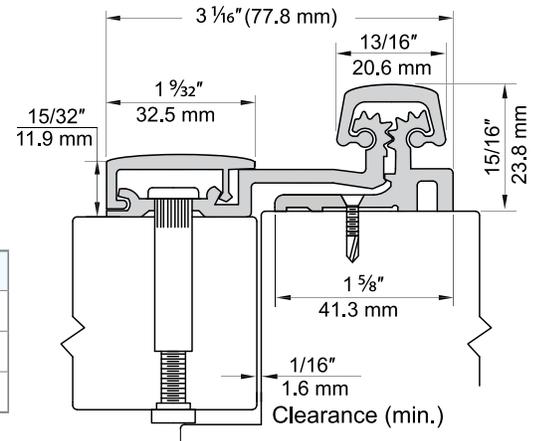


Fig. 1 — DHHD210

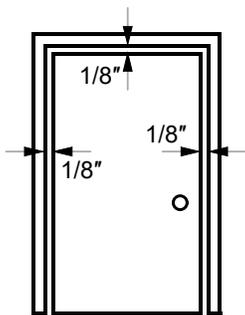
### Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than nominal door height

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

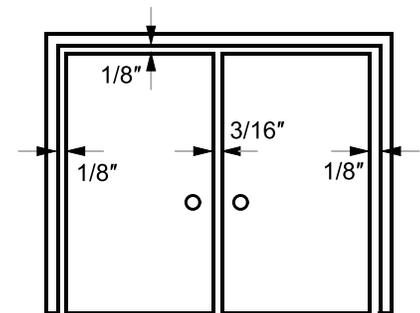
to avoid interference at thresholds or carpet. If shortening is required, first confirm door handing and hinge orientation. Mark and trim from the bottom only—do not cut the top.

### Door Clearance Required



#### SINGLE DOOR

Typical hinge-side clearance: 1/8" (3.2 mm)  
 Typical latch-side clearance: 1/8" (3.2 mm)  
 Total: 1/4" (6.4 mm)



#### DOUBLE DOORS

First hinge-side clearance (typical): 1/8" (3.2 mm)  
 Clearance between doors (typical): 3/16" (4.8 mm)  
 Second hinge-side clearance (typical): 1/8" (3.2 mm)  
 Total: 7/16" (11.1 mm)

### Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 1/16" (1.6 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

**Note:** If the cut length coincides with a set-screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

### What to Order

Specify: • Model (DHHD210) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

### Quick-Specs

Door Inset	1/32" (0.8 mm)
Handing	LH/RH (or Non-handed)
Clearances	1/16" (1.6 mm) min at hinge edge

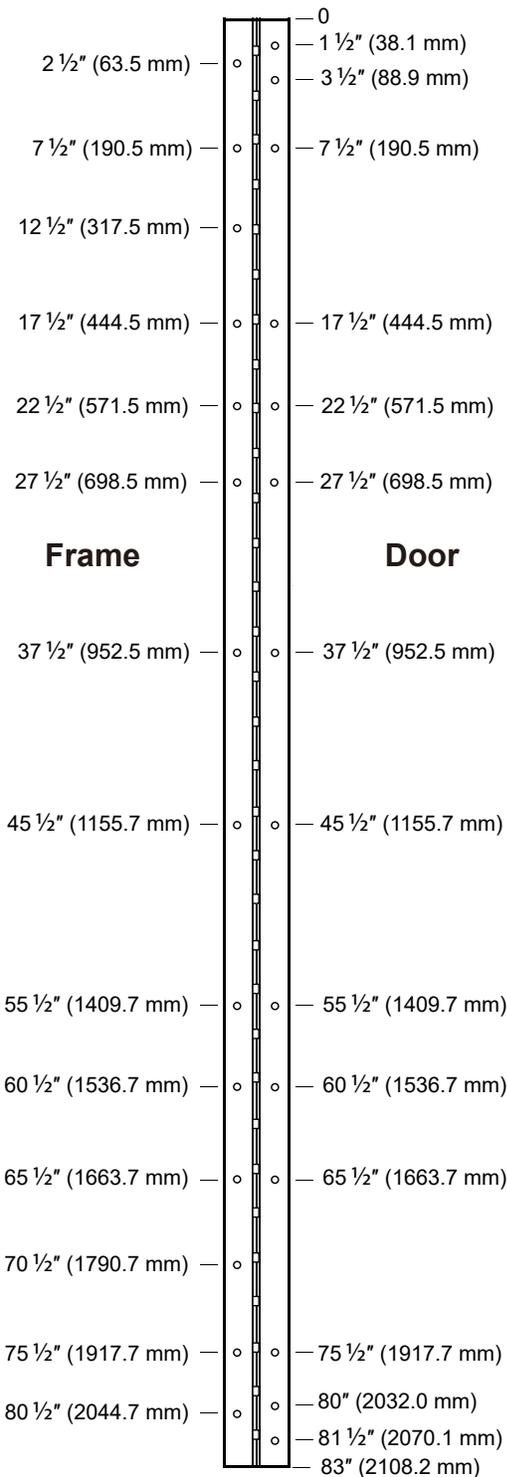
Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)



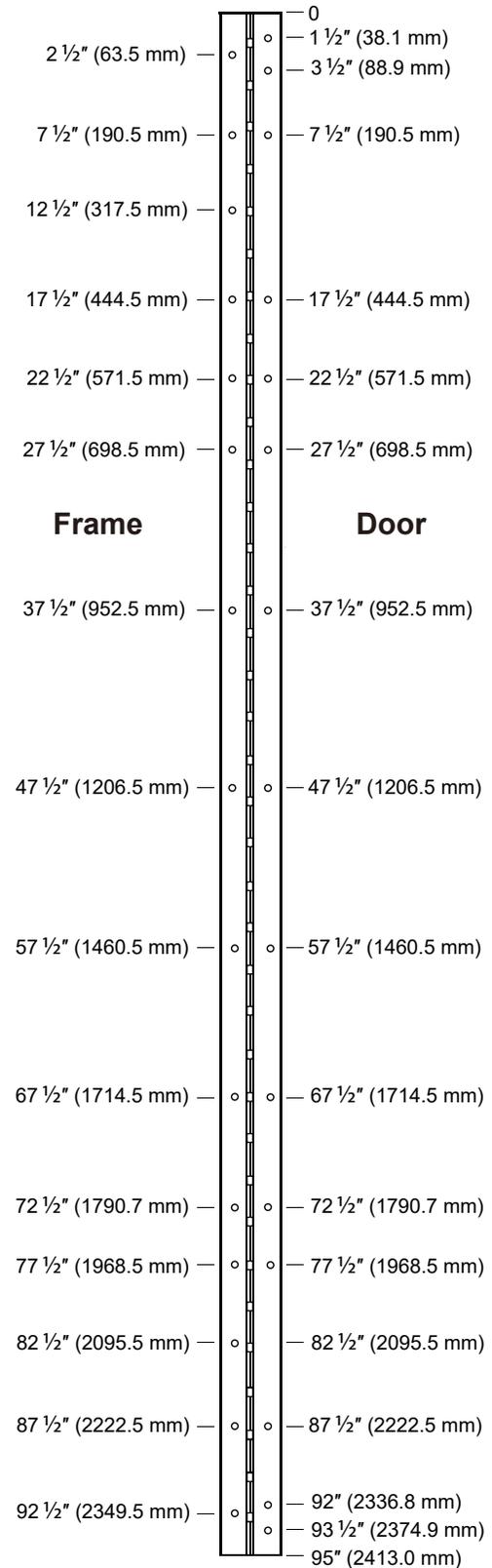
# DHHD210 TEMPLATES & CROSS REFERENCES

## DHHD210 Templates / Leaf Hole Positions

**83" Template:** 24 fasteners and 32 bearings



**95" Template:** 26 fasteners and 36 bearings



## Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD210	A210HD	210XY	FM2009	MCK22HD	HD2100	FMHD	CG33C	780-210HD	SL21 HD600	665HD	930DB

# CONTINUOUS GEARED HINGES

## Full-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

**DHHD057 / Full-Surface Hinge** is an aluminum, continuous-geared, full-surface hinge designed for installation on standard frames without hinge preparations. It may be installed with or without reinforcements, depending on door weight. The frame face must provide a flat surface at least  $1\frac{3}{16}$ " (30.2 mm) wide. A clearance of  $1/16$ " (1.6 mm) is required between the door's hinge edge and the frame rabbet.

Hinges are supplied with bearings.

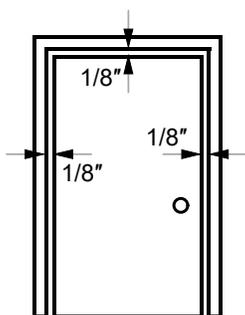
### Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to  $1\frac{5}{16}$ " (33.3 mm) shorter

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

than nominal door height to avoid interference at thresholds or carpet. If shortening is required, first confirm door handing and hinge orientation. Mark and trim from the bottom only—do not cut the top.

### Door Clearance Required

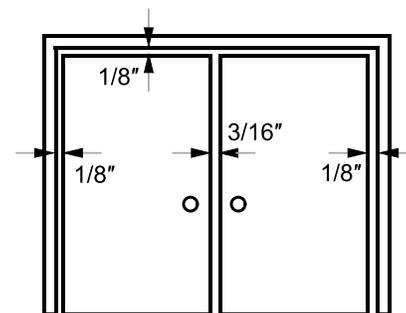


#### SINGLE DOOR

Typical hinge-side clearance:  $1/8$ " (3.2 mm)  
 Typical latch-side clearance:  $1/8$ " (3.2 mm)  
 Total:  $1/4$ " (6.4 mm)

#### DOUBLE DOORS

First hinge-side clearance (typical):  $1/8$ " (3.2 mm)  
 Clearance between doors (typical):  $3/16$ " (4.8 mm)  
 Second hinge-side clearance (typical):  $1/8$ " (3.2 mm)  
 Total:  $7/16$ " (11.1 mm)



### Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain  $1/16$ " (1.6 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

**Note:** If the cut length coincides with a set-screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

### What to Order

Specify: • Model (DHHD057) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

### Quick-Specs

Door Inset	$1/16$ " (1.6 mm)
Handing	LH / RH (or Non-handed)
Clearances	$1/16$ " (1.6 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

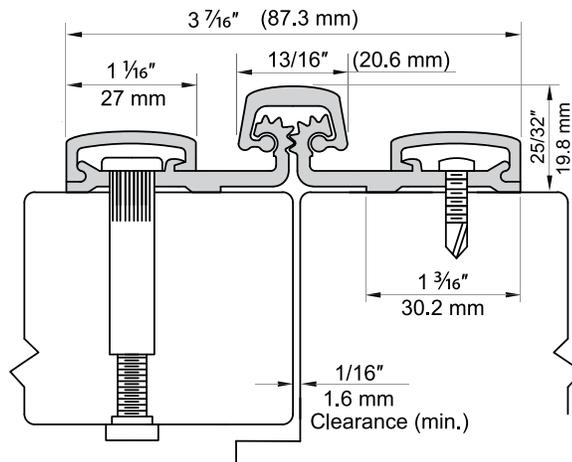


Fig. 1 — DHHD057

# DHHD057 INSTALLATION INSTRUCTIONS

## Attach Hinge to Frame (See Fig. 2)

1. Position the hinge in the door-open position.
2. Using a shim, set the top of the hinge  $1/16"$  (1.6 mm) below the header rabbet (max.  $1/8"$  / 3.2 mm). Seat the frame-leaf alignment flange snugly against the frame face.
3. Mark (or center-punch) one hole at the top and one at the bottom of the frame leaf. Then prepare holes per substrate:
  - a) Metal frames  $\leq 16$  ga: no pilot holes required; use the provided #12 self-drilling screws (recommended 1,900–2,500 RPM).
  - b) Metal frames  $> 16$  ga: drill and tap all mounting holes for #12-24 threads before installing screws.
  - c) Wood frames: pre-drill  $5/32"$  (4.0 mm) pilot holes for optional #12 flat-head wood screws.
4. Secure the frame leaf to the frame using the appropriate fasteners listed above.

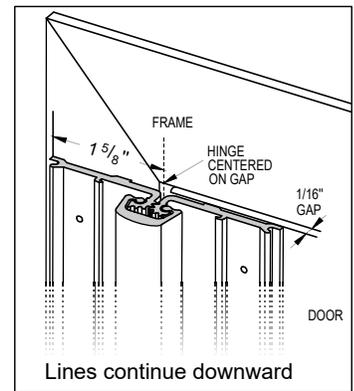


Fig. 2 — Attach Hinge to Frame

## Door Preparation

1. Shim the door in the opening to achieve the required clearances.
2. Temporarily attach the door leaf to the door by inserting screws in the locator holes. Remove the shims and verify clearances. Note: Make any adjustments needed to realign the door after the shims are removed.
3. Mark the locations for the top and bottom barrel nuts on the door using a  $3/8"$  (9.53 mm) striker pin.
4. Remove the door and place it on a stable horizontal surface. Drill through at each mark with a  $3/8"$  (9.53 mm) bit.
  - a) Metal doors: use the optional #12 self-drilling screws where specified.
  - b) Wood doors: pre-drill  $5/32"$  (4.0 mm) pilot holes and use optional #12 wood screws.
 Note: Drill squarely through both faces of the door.

## Attach Door to Hinge (See Fig. 3)

1. Fasten the door to the door leaf as illustrated. Adjust the frame/hinge as needed to ensure smooth operation and proper alignment. Remove all shims and wedges.
2. Secure the door to the door leaf using barrel nuts and  $1/4$ -20 sex bolts.

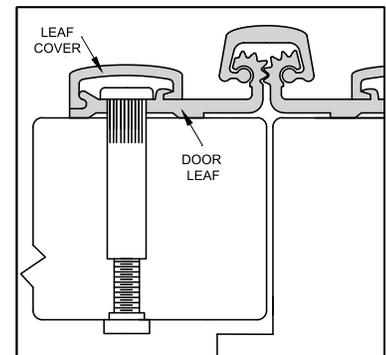


Fig. 3 — Attach Door to Hinge

## Install Leaf Cover on Door Leaf (See Fig. 4)

1. Using the supplied  $5/64"$  (1.98 mm) hex key, locate and loosen the retaining set-screw on the molding edge.
2. Position the long leg of the molding beneath the outer edge of the door leaf, aligning it along the full length of the hinge. Starting at the top, press—or gently tap—the short leg into place using a rubber mallet (or a hammer with a wood block as a protector).
3. Tighten the retaining setscrew securely.

Note: If the cut length ever coincides with a set-screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

Material	Pilot Holes	Screw Type	Notes
16-ga metal frame/door	Not required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
$> 16$ -ga metal	Drill & tap #12-24	#12-24 machine screw	Tap all mounting holes
Wood frame/door	Drill $5/32"$ (4 mm)	#12 wood screw (optional)	Included with leaf-cover (LL) models

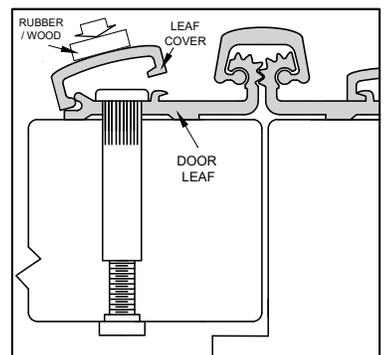
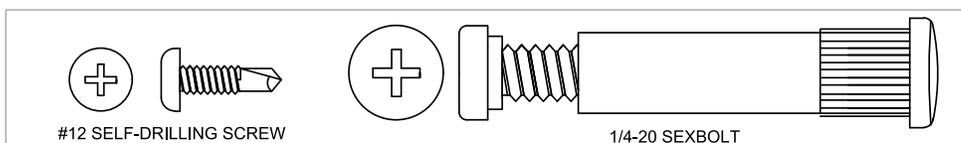
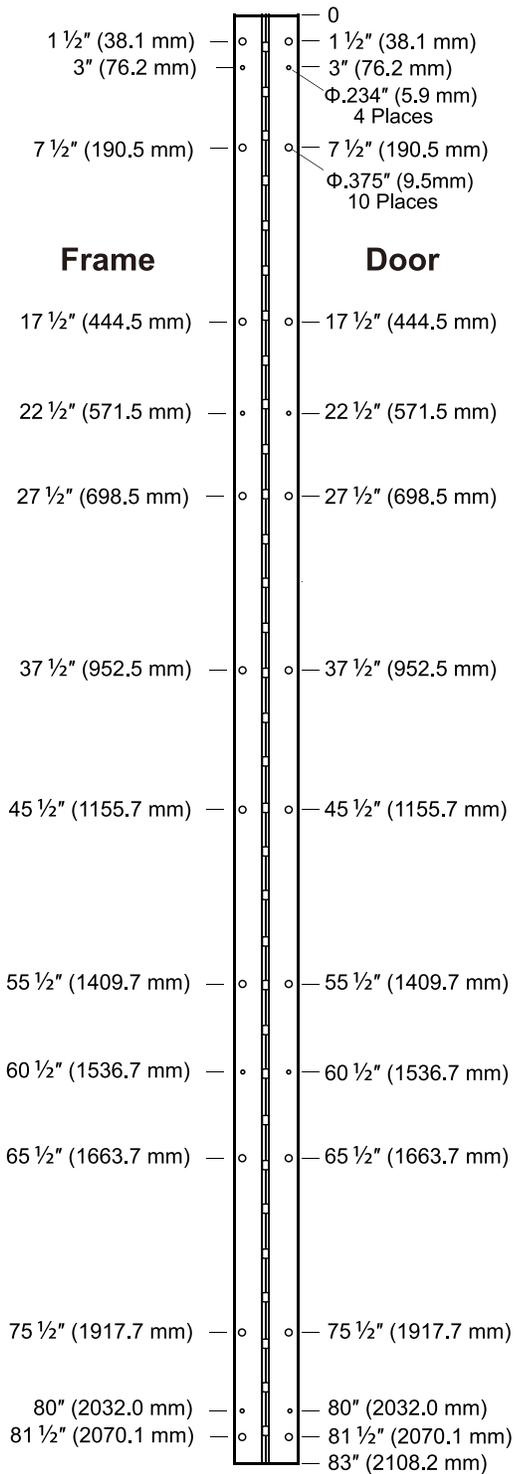


Fig. 4 — Install Leaf Cover on Door Leaf

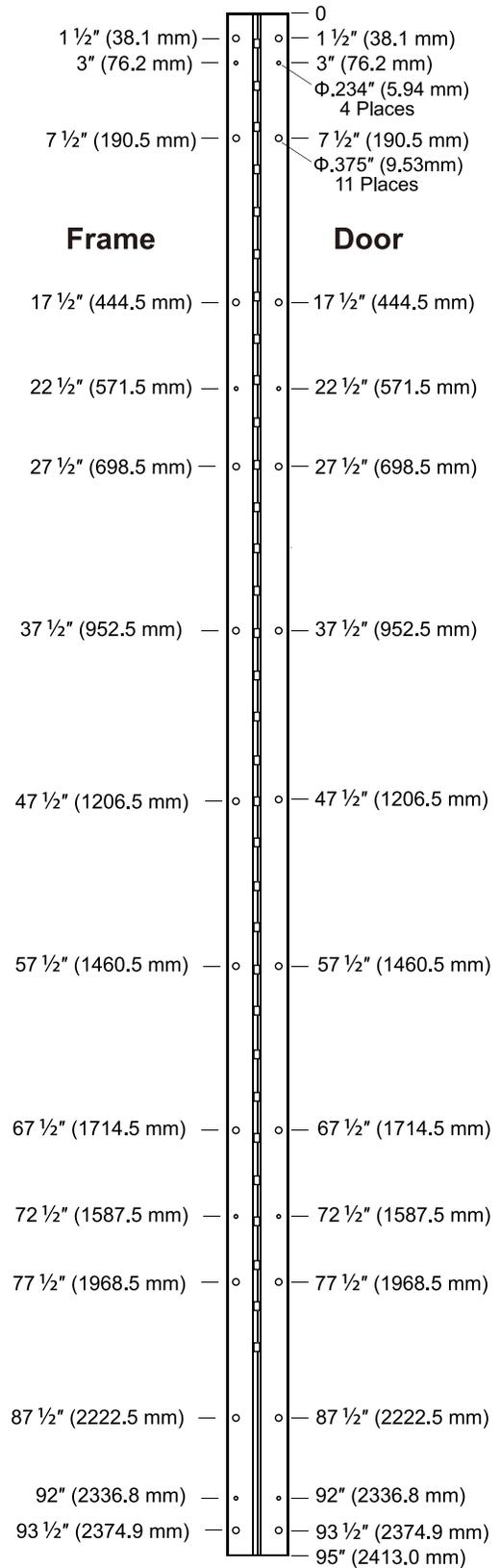
# DHHD057 TEMPLATES & CROSS REFERENCES

## DHHD057 Templates / Leaf Hole Positions

**83" Template: 29 fasteners and 32 bearings**



**95" Template: 33 fasteners and 36 bearings**



## Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD057	A571HD		FM2002					780-057HD			

# CONTINUOUS GEARED HINGES

## Full-Surface Aluminum Continuous-Geared Hinges / Heavy-Duty

**DHHD157 / Full-Surface Hinge** is an aluminum, continuous-geared, full-surface hinge designed for a 1/16" (1.6 mm) door inset. It installs on standard frames without hinge preparations and may be used with or without reinforcements depending on door weight. The frame face must provide a flat bearing surface at least 7/8" (22.2 mm) wide. Maintain a minimum clearance of 1/16" (1.6 mm) between the door's hinge edge and the frame rabbet. Hinges are supplied with bearings.

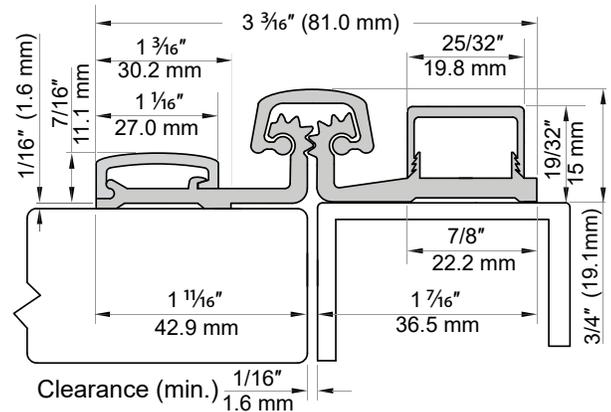


Fig. 1 — DHHD157

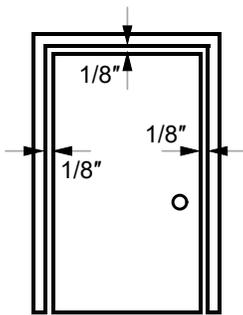
### Hinge Length

Direct Hardware (DH) hinges are supplied approximately 1" (25.4 mm) to 1 5/16" (33.3 mm) shorter than nominal door height

Door Height	Hinge Length	Bearings
7' - 0"	83" (2108 mm)	32 PCS
8' - 0"	95" (2413 mm)	36 PCS
10' - 0"	119" (3022 mm)	46 PCS

to avoid interference at thresholds or carpet. If shortening is required, first confirm door handing and hinge orientation. Mark and trim from the bottom only—do not cut the top.

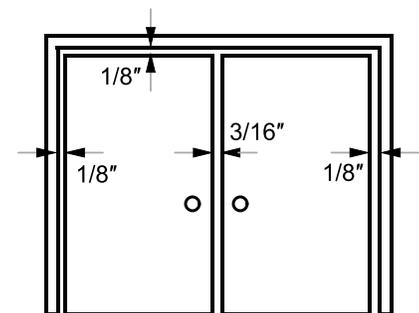
### Door Clearance Required



#### SINGLE DOOR

Typical hinge-side clearance: 1/8" (3.2 mm)  
 Typical latch-side clearance: 1/8" (3.2 mm)  
 Total: 1/4" (6.4 mm)

First hinge-side clearance (typical): 1/8" (3.2 mm)  
 Clearance between doors (typical): 3/16" (4.8 mm)  
 Second hinge-side clearance (typical): 1/8" (3.2 mm)  
 Total: 7/16" (11.1 mm)



### Cutting the Hinge to Fit

- Keep the hinge closed and remove door-leaf caps if necessary.
- Confirm handing (if applicable).
- Cut one end only. After cutting, mount the hinge so the template hole pattern aligns at the top.
- Use a metal-cutting saw, starting at the gear cap.
- Maintain 1/16" (1.6 mm) minimum clearance between the hinge edge and the frame.
- To prevent grout from interfering with fasteners, use mortar guards (styrofoam or wood) in frames.
- New site-hung wood doors: if trimming, scribe and cut from the latch edge to maintain hinge-stile thickness for secure fastening.
- Remodeling existing wood or laminate doors: if trimming, scribe and cut from the hinge edge, then plane smooth.

**Note:** If the cut length coincides with a set-screw bearing, remove that bearing and replace it with a plain bearing positioned above the cut.

### What to Order

Specify: • Model (DHHD157) • Length • Finish (AL/BK/DU) • Fasteners (metal/wood) • Quantity

### Quick-Specs

Door Inset	1/16" (1.6 mm)
Handing	LH / RH (or Non-handed)
Clearances	1/16" (1.6 mm) min at hinge edge

Backset	Standard Frame
Frame Prep	Standard Frame
Lengths	83" / 95" / 119" (bearings: 32 / 36 / 46)

# DHHD157 INSTALLATION INSTRUCTIONS

## Attach Hinge to Frame (See Fig. 2)

1. Ensure the frame face provides a flat surface at least 7/8" (22.2 mm) wide to support the hinge. If the frame face is wider than 7/8", mark a reference line on the frame face 1" (25.4 mm) to 1 5/16" (33.3 mm) from the gap centerline between the door and jamb. For a typical 1/8" hinge-side gap, this reference line is 1 7/16" (37.3 mm) from the gap centerline.
2. Place the outer edge of the frame leaf on the reference line. Set the top of the hinge 1/16" (1.6 mm) below the header rabbet (max. 1/8" / 3.2 mm).  
Note: Using a 1/16" shim is recommended to allow for initial bearing settling.
3. Mark and center-punch all screw locations.
4. Fastener preparation by substrate: Metal frames ≤16 ga: pilot holes not required with supplied #12 self-drilling screws. Metal frames >16 ga: drill and tap #12-24 before installing screws. Wood frames: pre-drill 5/32" (4.0 mm) pilot holes for optional #12 wood screws.

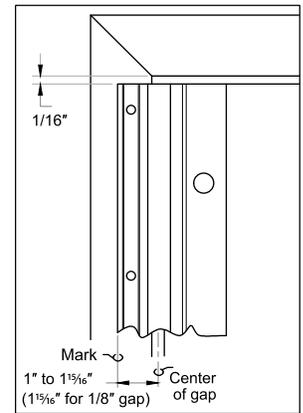


Fig. 2 — Attach Hinge to Frame

## Door Preparation (See Fig. 3)

1. Shim the door in the opening to achieve the required clearances.
2. Temporarily attach the door leaf to the door using the locator holes. Remove shims and verify clearances. Note: Realign as needed after shims are removed.
3. Mark the locations for the top and bottom barrel nuts using a 3/8" (9.5 mm) striker pin.
4. Remove the door and place it on a stable horizontal surface. Drill through at each mark with a 3/8" (9.5 mm) bit.
  - a) Metal doors: use optional #12 self-drilling screws where specified.
  - b) Wood doors: pre-drill #18 (0.1695", 4.3 mm) pilot holes and use optional #12 wood screws.
 Note: Ensure holes are drilled squarely through both faces of the door.

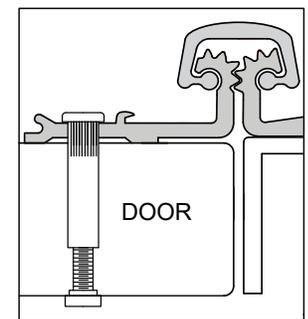


Fig. 3 — Door Preparation

## Attach Door to Hinge (See Fig. 4)

1. Fasten the door to the door leaf as illustrated. Adjust hinge/frame as needed for smooth operation and proper alignment. Remove any remaining shims and wedges.
2. Secure the door to the door leaf with barrel nuts and 1/4-20 sex bolts.

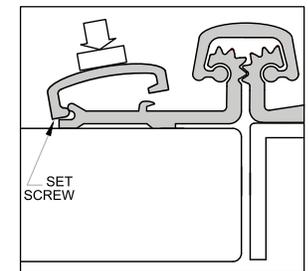


Fig. 4 — Attach Door to Hinge

## Install Leaf Cover on Door Leaf (See Fig. 5)

1. Using the supplied 5/64" (1.98 mm) hex key, locate and loosen the retaining setscrew on the molding edge.
2. Position the long leg of the molding beneath the outer edge of the door leaf and align along the full length of the hinge. Starting at the top, press—or gently tap—the short leg into place with a rubber mallet (or a hammer plus wood block).
3. Tighten the retaining setscrew securely.

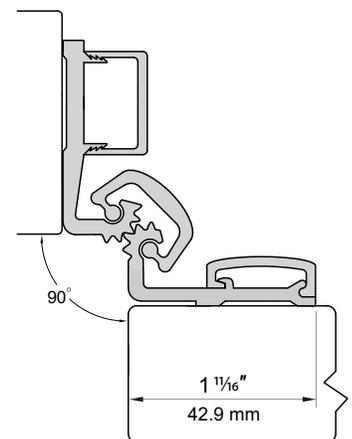
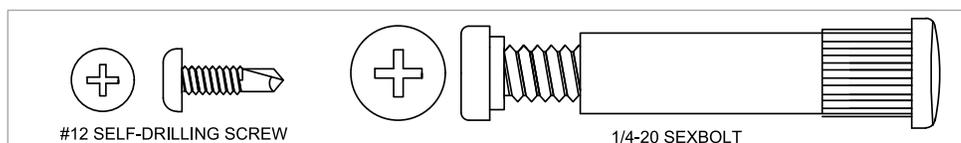


Fig. 5 — Install Leaf Cover on Door Leaf

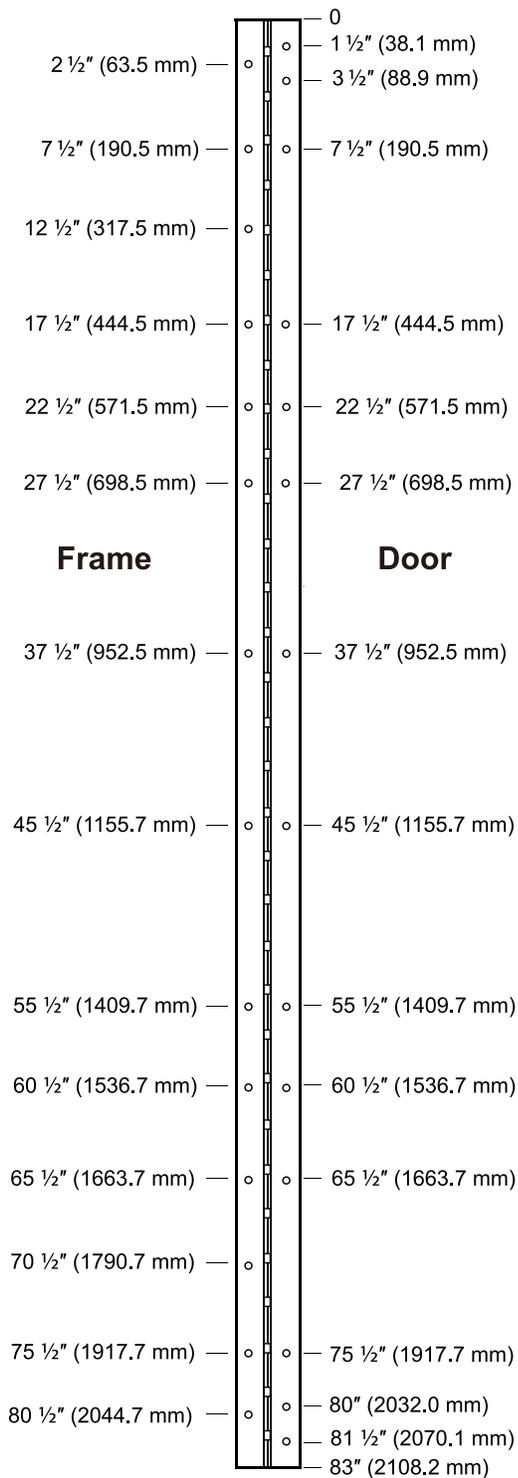
Material	Pilot Holes	Screw Type	Notes
16-ga metal frame/door	Not required	#12 self-drilling (supplied)	Drive 1,900–2,500 RPM
>16-ga metal	Drill & tap #12-24	#12-24 machine screw	Tap all mounting holes
Wood frame/door	Drill 5/32" (4 mm)	#12 wood screw (optional)	Included with leaf-cover (LL) models



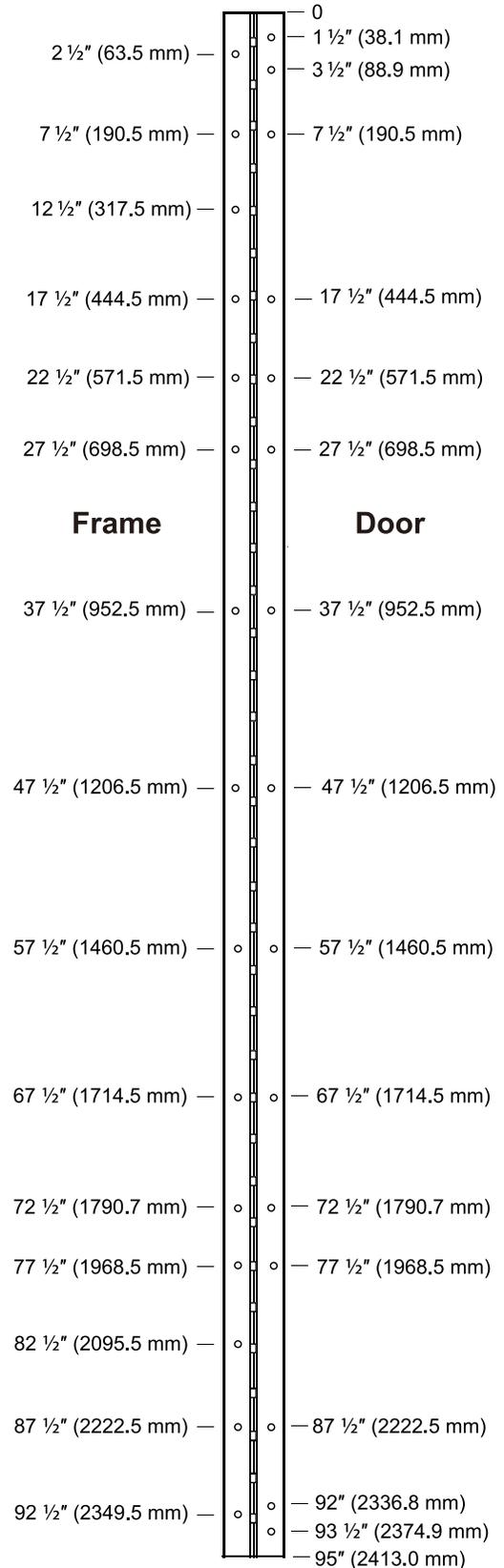
# DHHD157 TEMPLATES & CROSS REFERENCES

## DHHD157 Templates / Leaf Hole Positions

**83" Template:** 24 fasteners and 32 bearings



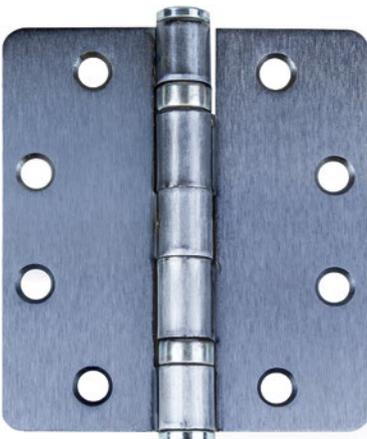
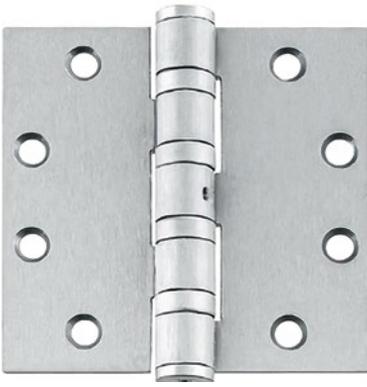
**95" Template:** 26 fasteners and 36 bearings



## Cross References

DH	ABH	IVES	MARKAR	MCKINNEY	NGP	PEMKO	PBB	ROTON	SELECT	STANLEY	ZERO
DHHD157	A570HD	157XY		MCK58HD	HD5700	FSCPHD	CG33N	780-157HD	SL57 HD600	664HD	935DB

# COMMERCIAL BUTT HINGES - BALL BEARING TYPES



Item No.	Description
DHBH4BB4545 US26D	4.5" x 4.5" – 4 Ball Bearings, US26D Satin Chrome
DHBH4BB4545 US26D NRP	4.5" x 4.5" – 4 Ball Bearings, US26D NRP Satin Chrome
DHBHBB4540 US10B	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US10B Oil Rubbed Bronze
DHBHBB4540 US10B NRP	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US10B NRP Oil Rubbed Bronze
DHBHBB4540 US15	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US15 Satin Chrome
DHBHBB4540 US15 NRP	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US15 NRP Satin Chrome
DHBHBB4540 US26D	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US26D Satin Chrome
DHBHBB4540 US26D NRP	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US26D NRP Satin Chrome
DHBHBB4540 US32D	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US32D Stainless Steel
DHBHBB4540 US32D NRP	4.5" x 4.0" x 1/4" Radius – 2 Ball Bearings, US32D NRP Stainless Steel
DHBHBB4545 US10B	4.5" x 4.5" – 2 Ball Bearings, US10B Oil Rubbed Bronze
DHBHBB4545 US10B NRP	4.5" x 4.5" – 2 Ball Bearings, US10B NRP Oil Rubbed Bronze
DHBHBB4545 US26D	4.5" x 4.5" – 2 Ball Bearings, US26D Satin Chrome
DHBHBB4545 US26D NRP	4.5" x 4.5" – 2 Ball Bearings, US26D NRP Satin Chrome
DHBHBB4545 US32D	4.5" x 4.5" – 2 Ball Bearings, US32D Stainless Steel
DHBHBB4545 US32D NRP	4.5" x 4.5" – 2 Ball Bearings, US32D NRP Stainless Steel
DHBHPL4545 US26D NRP	4.5" x 4.5" – Plain Bearing, US26D NRP Satin Chrome
DHBHPL4545 USP	4.5" x 4.5" – Plain Bearing, USP Prime Coat Grey
DHBHPL4545 USP NRP	4.5" x 4.5" – Plain Bearing, USP NRP Prime Coat Grey
DHBHSP4545 US10B	4.5" x 4.5" – Spring Hinge, US10B Oil Rubbed Bronze
DHBHSP4545 US26D	4.5" x 4.5" – Spring Hinge, US26D Satin Chrome

# CYLINDRICAL LOCKS

## DH40 Series — Grade 2 / Clutched Locksets

The DH40 Series Grade 2 Clutched Lockset is a medium-duty, key-in-lever solution engineered for durability, security, and ADA compliance.

Built to exceed ANSI A156.2 standards, it is ideal for offices, schools, hospitals, apartments, hotels, and other public buildings requiring reliable performance with a refined design.

### COMPLIANCE & CERTIFICATION

- ADA Compliant for accessibility
- Exceeds ANSI A156.2 Grade 2 standards
- Meets California State Fire Code requirements
- UL and cUL Listed for fire doors (3-hour rating)

### DURABILITY & CONSTRUCTION

- Heavy-duty lever spring return rose assembly.
- Solid brass latch bolt for strength and reliability.
- Solid brass Schlage C-pin keyway cylinder for durability and security

### FUNCTIONALITY & FLEXIBILITY

- Bidirectional lever operation — non-handed design.
- Convertible posts for versatile installation.
- Available with Free Wheeling Mechanism to prevent vandalism

### WARRANTY

- Protected by a five-year warranty covering manufacturing defects

### SPECIFICATIONS

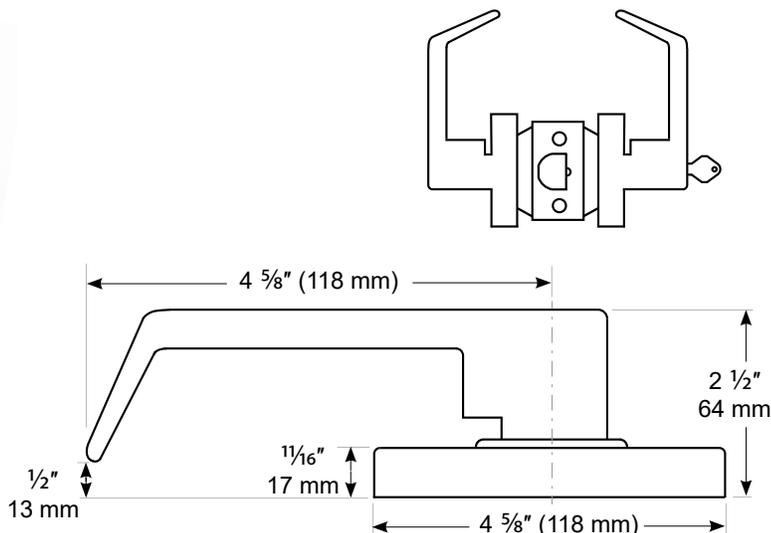
Application	Offices, schools, hospitals, apartments, hotels, motels, & other public buildings.
Door Thickness	1 3/8" to 1 3/4" (35 mm to 45 mm)
Backset	Standard 2 3/8" (60 mm) or 2 3/4" (70 mm)
Front	Brass or Bronze; 2 1/4" x 1" (standard), 2 1/4" x 1 1/8" (optional); Adjustable for flat or beveled doors (1/8" in 2")
Strike	ST1 ANSI standard, 1 1/4" x 4 7/8"
Roses	Brass or Bronze
Handing	Universal (non-handed)
Latch Bolt	Brass standard, 1/2" latch bolt; Stainless steel, 1/2" latch bolt (optional)



Keys	Two Brass
Cylinder	Brass Schlage C pin keyway standard. Weiser. Arrow. Lockwood C 4. Kwikset optional
Masterkeying	Can be masterkeyed or grand masterkeyed. Construction key system available
Wheeling Mechanism	Free Wheeling available on all keyed locks and Privacy function on request
Interchangeable Core	Accepts 6 or 7-pin interchangeable cores compatible with BEST or SARGENT systems
Finishes (US Code)	Available 3, 4, 5A, 10, 10B, 11, 15, 15A, 19, 26, 26D
Split Finishes	Exterior finish specified first; Front & strike finished to match interior trim unless otherwise specified
UL/cUL Listing	Listed for use on fire doors (3-hour rated)

# CYLINDRICAL LOCK FUNCTION CHART

## DH40 Series — Grade 2 / Clutched Locksets



### DH40 LOCK FUNCTION CHART

FUNCTION	TRIM	DH	ANSI	DESCRIPTION
	LEVER	10	F75	Passage or Closet Latch – Lever-operated latch bolt from both sides at all times, ideal for internal doors that do not require locking.
	LEVER	40	F76	(Remove "A") Privacy, Bedroom, or Bath Lock – Lever-operated latch bolt from both sides; outside lever locks via push button and unlocks by emergency release from outside, turning inside lever, or closing the door.
	LEVER	53	F82	Entry Lock – Dead-locking latch bolt operable by lever from both sides; outside lever locks via push or turn button, and can be unlocked by key from outside or lever from inside. Closing the door will not release the lock button.
	LEVER	70	F84	Classroom Lock – Dead-locking latch bolt operable by lever from either side; outside lever lockable by key from outside. Once locked, the latch can still be operated from inside.
	LEVER	80	F86	Storeroom or Closet Lock – Dead-locking latch bolt operated by key from outside lever or lever from inside only; outside lever remains locked at all times.
	LEVER	25	F111	Exit or Communicating Passage Lock – Dead-locking latch bolt operable from one side only, providing continuous secure exit. Non-removable blank trim or no trim provided outside.
	LEVER	170		Dummy Trim (1 Side) – Non-operational trim used as a matching inactive handle or door pull.

# CYLINDRICAL LOCKS

## DH50 Series — Grade 1 / Clutched Locksets

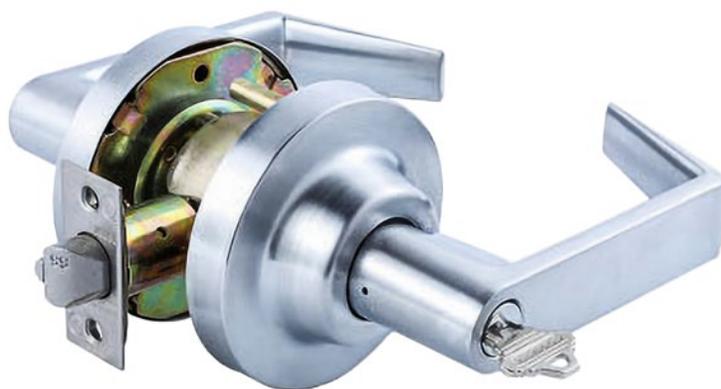
The 50DH Series Grade 1 Clutched Lockset is designed for commercial, industrial, and institutional environments where dependable operation, long service life, and high resistance to vandalism are essential.

Ideal applications include office buildings, government centers, factories, schools, hospitals, and more.

The internal clutch mechanism resists vandalism by allowing the lever to rotate without retracting the latch when locked. Heavy-duty torsion springs ensure positive lever return and support convertible posts.

### CERTIFICATIONS & COMPLIANCE

- ANSI/BHMA A156.2 — Grade 1 strength & operational requirements
- ANSI A250.13 — Severe windstorm compliant
- UL Listed — 3-hour “A” label or lesser fire-rated single doors, 4’ × 8’
- UL10C / UBC-2 — Positive pressure compliant
- UL10B — Neutral pressure compliant
- ADA/ANSI A117.1 — Accessibility compliant
- California State Reference Code (CSFM)
- All levers (G and E) with less than 1/2” (13 mm) return comply with California Fire Safety Codes (formerly Title 19, California State Fire Marshal)



### WARRANTY

- Protected by a five-year warranty covering manufacturing defects

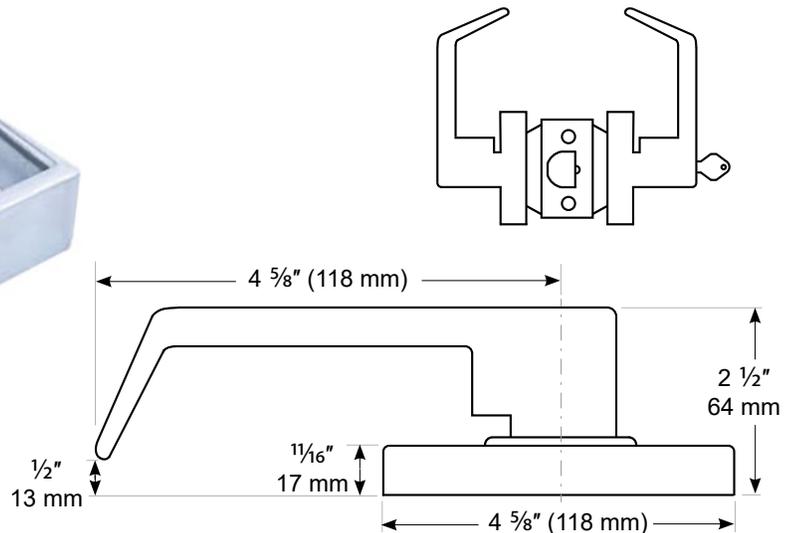
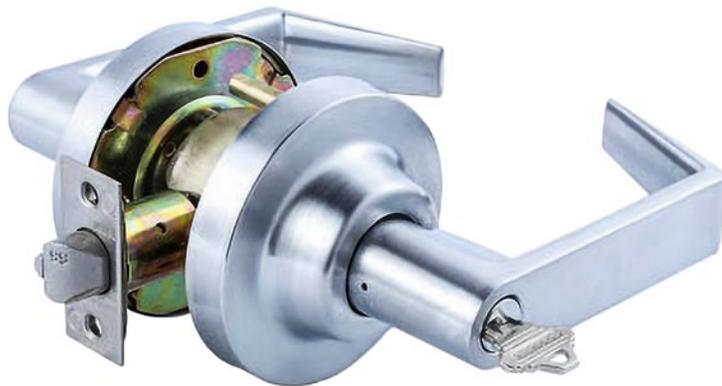


### SPECIFICATIONS

Design	Strong, stable design with anti-twisting capacity, dependable operation, and long service life	Levers	Durable cast zinc-based levers
Clutch	Allows lever rotation without latch retraction when locked, deterring vandalism	Rose	Brass or stainless steel, 3 9/16" (90 mm) diameter
Handing	Non-handed — suitable for left- or right-hand doors	Lever Springs	Dual torsion springs prevent sagging and ensure positive return
Backset	2 3/4" standard; optional 2 3/8" (60 mm) or 5" (127 mm) extension	Strike	ANSI curved lip, 1 1/4" × 4 7/8" × 1 3/8" lip-to-center standard
Faceplate	Heavy-gauge steel chassis with corrosion-resistant zinc dichromate	Door Thickness	Field adjustable for 1 3/8" to 1 3/4" (35 mm to 45 mm)
Latch Bolt & Retractor	Stainless steel, 13.7 lbs throw, deadlocking on keyed/exterior functions; roller-equipped retractor for durability	Mounting	Through-bolt mounted for superior strength
		Cylinder & Keys	6-pin type keyway, includes 2 brass keys
		Interchangeable Core	Accepts compatible 6- or 7-pin cores (Best format)

# CYLINDRICAL LOCK FUNCTION CHART

## DH50 Series — Grade 1 / Clutched Locksets



### DH50 LOCK FUNCTION CHART

FUNCTION	TRIM	DH	ANSI	DESCRIPTION
	LEVER	10	F75	Passage or Closet Latch – Lever-operated latch bolt from both sides at all times, ideal for internal doors that do not require locking.
	LEVER	40	F76	(Remove "A") Privacy, Bedroom, or Bath Lock – Lever-operated latch bolt from both sides; outside lever locks via push button and unlocks by emergency release from outside, turning inside lever, or closing the door.
	LEVER	53	F82	Entry Lock – Dead-locking latch bolt operable by lever from both sides; outside lever locks via push or turn button, and can be unlocked by key from outside or lever from inside. Closing the door will not release the lock button.
	LEVER	70	F84	Classroom Lock – Dead-locking latch bolt operable by lever from either side; outside lever lockable by key from outside. Once locked, the latch can still be operated from inside.
	LEVER	80	F86	Storeroom or Closet Lock – Dead-locking latch bolt operated by key from outside lever or lever from inside only; outside lever remains locked at all times.
	LEVER	25	F111	Exit or Communicating Passage Lock – Dead-locking latch bolt operable from one side only, providing continuous secure exit. Non-removable blank trim or no trim provided outside.
	LEVER	170		Dummy Trim (1 Side) – Non-operational trim used as a matching inactive handle or door pull.

### DH50 SERIES OPTIONS

See page 11

# CYLINDRICAL LOCK OPTIONS

## DH40 and DH50 Series Options — Clutched Locksets

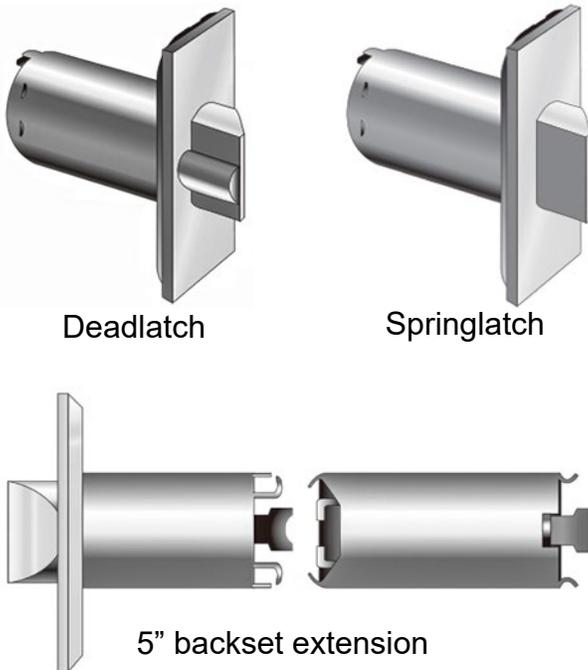
### FUNCTION

- 10 Passage
- 40 Privacy, Bedroom or Bath Lock
- 53 Entrance Lock
- 70 Classroom Lock
- 80 Storeroom
- 25 Communicating Passage Lock
- 170 Dummy Trim, 1 Side, Eclipse

### FINISH

- |                            |                                |
|----------------------------|--------------------------------|
| <b>C</b> 605 Bright Brass  | <b>H</b> 613 Oil Rubbed Bronze |
| <b>D</b> 606 Dull Brass    | <b>P</b> 625 Bright Chrome     |
| <b>F</b> 611 Bright Bronze | <b>Q</b> 626 Dull Chrome (std) |
| <b>G</b> 612 Dull Bronze   |                                |

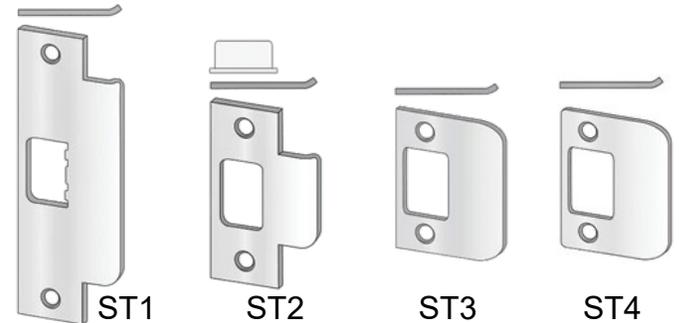
### LATCH BOLT



- B1** 2 3/4" dead latch (standard)
- B2** 2 3/8" dead latch
- B3** 2 3/4" spring latch, passage (standard)
- B4** 2 3/8" spring latch, passage
- B5** 2 3/4" spring latch, privacy (standard)
- B6** 2 3/8" spring latch, privacy
- BE** 5" backset extension, for use with 2 3/4" latch only



### STRIKE



- ST1** ANSI 1 1/4" x 4 7/8" (Standard)
- ST2** T-Strike with dust box, ANSI 1 1/8" x 2 3/4"
- ST3** Full lip strike, 1 5/8" x 2 1/4"
- ST4** Full lip strike with round corners, 1 5/8" x 2 1/4"

### CYLINDER OR I-CORES

Conventional Cylinders (Schlage 'C' Keyway Standard)  
For RIC or LIC Type

- 6PKD** 6 PIN Keyed different (standard)
- 6PKA** 6 PIN Keyed alike

**Interchangeable Core**  
(Best 'A' Keyway Standard)  
For RIC or LIC Type



- IC6P-KA** 6 pin I-Core, small format, keyed alike
- IC6P-KD** 6 pin I-Core, small format, keyed different
- IC7P-KD** 7 pin I-Core, small format, keyed different
- IC7P-KA** 7 pin I-Core, small format, keyed alike

# GRADE 1 HEAVY-DUTY DEADBOLTS

## DH77700 Series / ANSI / Grade1 / Deadbolts

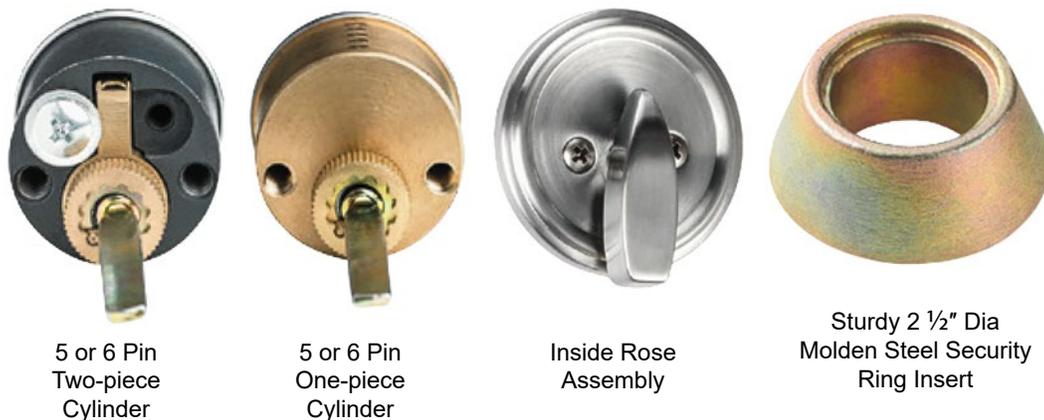
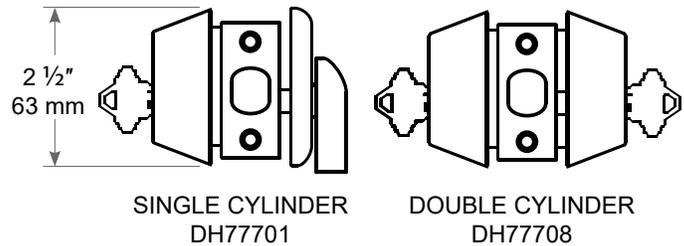
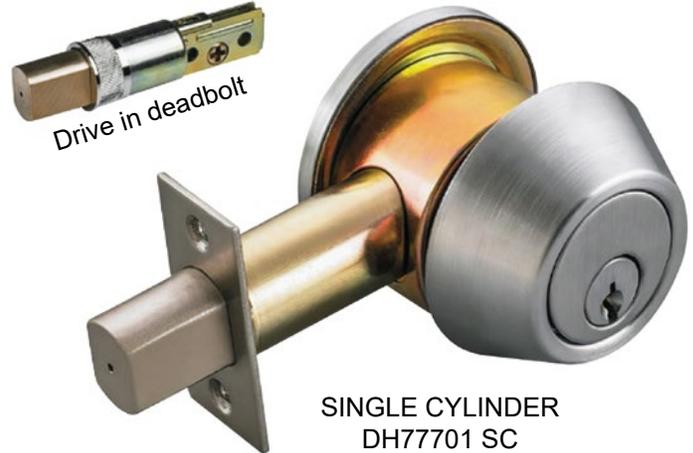
The DH77700 Series Grade 1 Deadbolt is a heavy-duty, commercial-quality lock designed to deliver maximum resistance against forced entry. The recessed cylinder and reinforced construction provide superior protection against hammering, prying, and kick-in attacks.

### SECURITY & DURABILITY

- **Solid Security Ring:** 2 1/2" diameter, one-piece solid steel ring insert exceeds ANSI Grade 1 standards for resistance against hammer and crowbar attacks.
- **Reinforced Deadbolt:** 1" (25 mm) hardened steel core deadbolt with 5/64" thick faceplate exceeds ANSI Grade 1 standards for resistance against kick-in and sawing.
- **Pick-Resistant Cylinder:** High-precision, solid brass 6-pin tumbler plug ("C" keyway). Brass key design prevents the cylinder from being knocked out.

### DESIGN & CONVENIENCE

- **Drive-In Deadbolt:** Simplifies installation on metal doors. Requires only one hole on the door edge.
- **ADA Ergonomic Thumb Turn:** Meets accessibility standards for easy operation.
- **Extra-Thick Steel Mounting Plate:** Provides added strength.
- **Durable Construction:** Sturdy, all-steel latch case and mechanism for long service life.



### FINISHES AVAILABLE

- PB - Polished Brass
- SB - Satin Brass
- AB - Antique Brass
- AC - Antique Copper
- SN - Satin Nickel
- SC - Satin Chrome
- CR - Polished Chrome
- ORB - Oil Rubbed Bronze
- TB - Black Nickel
- AN - Antique Nickel
- PVD - Lifetime Finish



### SPECIFICATIONS

Door Prep	Cross bore 2 1/8", edge bore 1", latch face 1" x 2 1/4"	Faceplate	1" x 2 1/4" square corner standard; round corner options available
Backset	2 3/4" standard, 2 3/8" optional	Strikes	1 1/8" x 2 3/4" square corner standard; round corner options available
Door Thickness	Adjustable 1 3/8" - 2"	Bolt	1" throw, nickel plated
Cylinder	5-pin or 6-pin removable core; Schlage "C" keyway or Kwikset options	ANSI/BHMA	A156.5 Grade 1

# GRADE 2 STANDARD DUTY DEADBOLTS

## DH77300 Series / ANSI / Grade 2 / Deadbolts

Designed for standard-duty commercial and residential applications. Built to exceed 400,000 cycles, these deadbolts provide reliable security and ease of installation, delivering a strong deterrent against forced entry.

### SECURITY FEATURES

- **Reinforced Deadbolt:** Fixed backset 1" (25 mm) deadbolt with hardened steel core exceeds ANSI Grade 2 requirements, providing superior resistance to kick-in and saw attacks.
- **Anti-Pry Protection:** 2" diameter tapered cylinder guard with metal insert, designed to turn freely under removal attempts.
- **Pick-Resistant Cylinder:** High-precision, solid metal tumbler plug with 5- or 6-pin option. Available with Schlage "C" or Kwikset keyways. Brass key, nickel-plated.

### DESIGN & CONVENIENCE

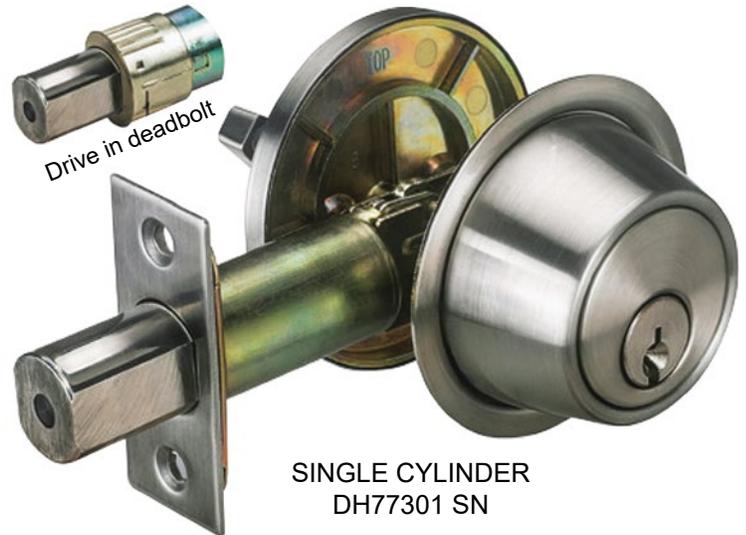
- **Drive-In Deadbolt:** Simple installation on metal doors — only one hole required on the door edge.
- **ADA Ergonomic Thumb Turn:** Meets accessibility standards for easy operation.
- **Durable Construction:** Sturdy steel latch case with zinc mounting plate.
- **Durable Construction:** Brass bolt, nickel plated, with 1" throw.
- **Adapter Included:** Fits 2 1/8" bore holes.

### FINISHES AVAILABLE

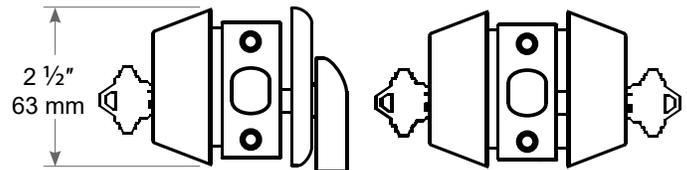
- PB - Polished Brass
- SB - Satin Brass
- AB - Antique Brass
- AC - Antique Copper
- SN - Satin Nickel
- SC - Satin Chrome
- CR - Polished Chrome
- ORB - Oil Rubbed Bronze
- TB - Black Nickel
- AN - Antique Nickel



Inside Rose Assembly



SINGLE CYLINDER  
DH77301 SN



SINGLE CYLINDER  
DH77301 SN

DOUBLE CYLINDER  
DH77308 SN



DOUBLE CYLINDER  
DH77308 SN

### SPECIFICATIONS

Door Prep	Cross bore 2 1/8", edge bore 1", latch face 1" x 2 1/4"
Backset	2 3/4" standard, 2 3/8" optional
Door Thickness	Adjustable 1 3/8" – 2"
Cylinder	5-pin or 6-pin removable core; Schlage "C" keyway or Kwikset options

Faceplate	1" x 2 1/4" square corner standard; round corner options available
Strikes	1 1/8" x 2 3/4" square corner standard; round corner options available
Bolt	1" throw, nickel plated
ANSI/BHMA	A156.5 Grade 2

# GRADE 2 HEAVY DUTY THUMBTURN DEADBOLTS

## DH77320 Series / ANSI / BHMA Grade 2 / Thumbturn Deadbolts

Designed for commercial and institutional use, providing reliable security with a built-in vacancy indicator. These heavy-duty deadbolts offer durability, ADA-compliant operation, and a positive deterrent against forced entry.

### SECURITY FEATURES

- 1" (25 mm) deadbolt with hardened steel core exceeds ANSI Grade 2 security standards for resistance against kick-in and saw attacks
- Vacancy indicator window shows "VACANT" when latchbolt is retracted

### DESIGN & CONVENIENCE

- ADA-compliant ergonomic thumb turn for ease of use
- Large 2 13/16" diameter SUS304 stainless steel rose
- User-friendly privacy function operated by turn button inside or emergency key outside.

### CONSTRUCTION

- 2 mm thick steel mounting plate for durability
- Heavy-duty, all-steel latch case and mechanism

### FINISHES AVAILABLE

- PB - Polished Brass
- AB - Antique Brass
- SN - Satin Nickel
- SC - Satin Chrome
- CR - Polished Chrome
- ORB - Oil Rubbed Bronze
- PVD - Lifetime Finish



3 Hour List  
UL R25246



THUMBURN DEADBOLT  
DH77302



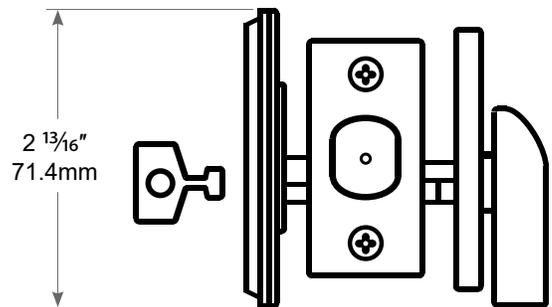
Inside Rose Assembly Style Available



DH77302 SC



DH77312 SC



DH77302  
PRIVACY DEADBOLT  
Deadbolt operated by emergency key  
outside or turn button inside

### SPECIFICATIONS

Door Prep	Cross bore 2 1/8", edge bore 1", latch face 1" x 2 1/4"
Backset	2 3/4" standard, 2 3/8" optional
Door Thickness	Adjustable 1 3/8" - 2"

Faceplate	1 1/8" x 2 1/4" square corner standard; round corner options available
Strikes	1 1/8" x 2 3/4" square corner standard; round corner options available
Bolt	1" throw, nickel plated

# GRADE 1 MORTISE LOCKSETS

## DHM Series Mechanical Mortise Lockset / Grade 1

The DHM Series Grade 1 Mortise Locks are designed for heavy-duty commercial and institutional applications. They comply with ANSI/BHMA A156.13 Grade 1 standards, ensuring maximum durability, reliability, and security. All locks are field-reversible for easy installation and can be quickly adapted to different handing without disassembly.

### SECURITY FEATURES

- Internal clutch provides vandal resistance by allowing lever rotation without retracting the latch when locked
- Forged brass, bronze, and stainless-steel construction ensures durability under heavy use
- 3/4" stainless steel latch with anti-friction tongue and 1" deadbolt for added protection

### DESIGN & CONVENIENCE

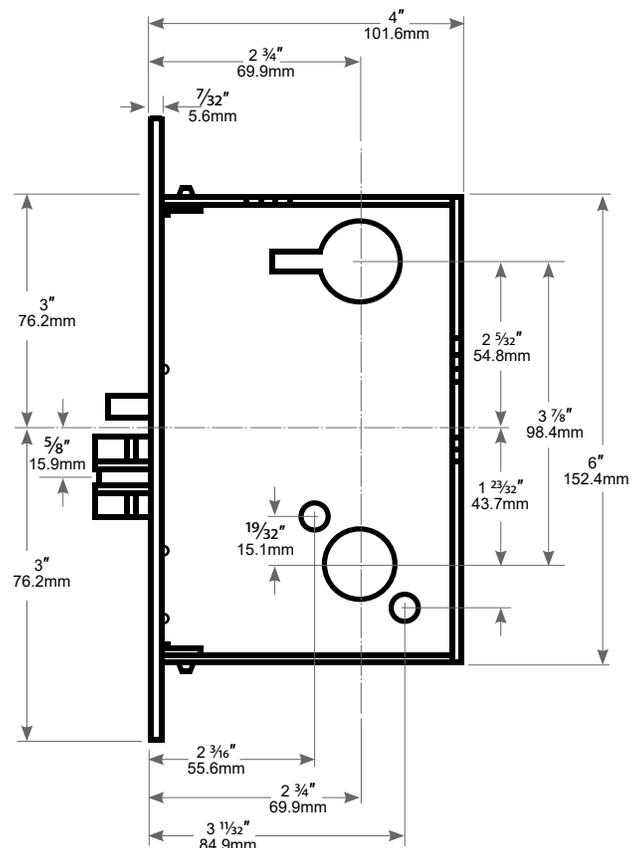
- Fully reversible in the field without disassembly
- Heavy wrought brass, bronze, or stainless-steel rose and escutcheon
- One or two heavy-duty spring cages available as required per function.

### COMPATIBILITY

- May retrofit with other brand locksets (consult factory)
- Optional 6-pin "C" type keyway cylinder available
- Compatible with interchangeable core cylinders by others

### SPECIFICATIONS

Clutch	Internal clutch provides vandal resistance by permitting lever rotation without retracting latch when locked
Handing	Field reversible without disassembly
Door Thickness	Standard 1 3/4" (44mm); specify for up to 2 1/4" (57mm) doors
Backset	2 3/4" (70 mm)
Armored Front	1 1/4" x 8" x 7/32" (32 mm x 203 mm x 6 mm)
Case	3 15/16" x 6 1/16" x 29/32" (100 mm x 154 mm x 23 mm)
Bolts	3/4" latch with anti-friction tongue; 1" deadbolt, stainless steel
Levers	Forged brass/bronze or cast stainless steel
Spring Cages	One or two heavy-duty spring cages as required per function
Rose & Escutcheon	Heavy wrought reinforced brass, bronze, or stainless steel
Strike	ANSI curved lip strike 1 1/4" x 4 7/8" (32 mm x 124 mm) x 1 3/16" lip with dust box
Cylinder & Keys	Optional 1 1/8" 6-pin "C" type keyway
I-Core	Compatible with interchangeable core cylinders by others



### FINISHES AVAILABLE

- 613 Oil Rubbed Bronze
- 626 Dull Chrome
- 629 Bright Stainless Steel

# GRADE 1 MORTISE LOCKETS

## DHM Series Ordering Information / Grade 1 / Mortise Lockset

	DHM1001	F01	<b>Passage</b> - Latch bolt retracted by lever from either side at all times
	DHM3004	F04	<b>Office</b> - Latch bolt operated by lever from either side except when outside lever is made inoperative by key outside or by turning inside thumb turn. When outside lever is locked, latch bolt is retracted by key from outside or by operating inside lever. Outside lever remains locked until thumb turn is return to vertical position or unlock by key. Auxiliary latch deadlocks latchbolt when doors closed.
	DHM2005	F05	<b>Classroom</b> - Latch bolt retracted by lever from either side unless outside is locked by key. Unlocked from outside by key. Inside lever always free for immediate exit. Auxiliary latch deadlocks latch bolt when door is closed.
	DHM2007	F07	<b>Storeroom</b> - Latch bolt retracted by key outside or by knob/lever inside. Outside lever always inoperative. Auxiliary latch deadlocks latch bolt when door is closed.
	DHM2009	F09	<b>Apartment Entrance / Vestibule</b> - Latch bolt operated by lever from either side, except when outside lever is locked by key from inside. When outside lever is locked, latch bolt is retracted by key from outside or by operating inside lever. Auxiliary dead latch.
	DHM2413	F13	<b>Corridor / Exit</b> - Latch bolt operated by lever from either side. Dead bolt projected by key from outside and turn from inside. Operating inside lever retracts both bolts and unlocks outside.
	DHM3420	F20	<b>Entrance</b> - Latch bolt operated by lever from either side, except when outside lever is made inoperative by toggle button. Dead bolt operated by key outside or turn inside. Key outside operates both bolts. Operating inside lever retracts both bolts and outside remains locked. Latch bolt is deadlocked when outside lever is made inoperative or when the dead bolt is projected. When dead bolt is retracted, lever is unlocked by toggle button.
	DHM1022	F02 F04 F22	<b>Privacy</b> - Latch bolt operated by lever from either side except when outside lever is locked by inside thumb turn. Operating inside lever, closing door or operating outside emergency release unlocks outside lever.
	DHM0071		<b>Single Dummy Trim</b> - Lever on one side fixed by mounting bar.
	DHM0072		<b>Double Dummy Trim</b> - Lever on both sides fixed by mounting bar.
	DHM0075		<b>Single Dummy Trim</b> - Lever on both sides fixed. Includes lock chassis and armor front.
	DHM0076		<b>Double Dummy Trim</b> - Lever on both sides. Includes lock chassis and armor front.

# GRADE 1 MORTISE LOCKSETS

## DHM Series Options / Grade 1 / Mortise Lockset

### FUNCTION

<b>DHM1001</b>	Passage
<b>DHM3004</b>	Office
<b>DHM2005</b>	Classroom
<b>DHM2007</b>	Storeroom
<b>DHM2009</b>	Apartment Entrance / Vestibule
<b>DHM2413</b>	Corridor / Exit
<b>DHM3420</b>	Entrance
<b>DHM1022</b>	Privacy
<b>DHM0071</b>	Single Dummy Trim
<b>DHM0072</b>	Double Dummy Trim
<b>DHM0075</b>	Single Dummy Trim with Chassis
<b>DHM0076</b>	Double Dummy Trim with Chassis

### HANDING

<b>L</b> Left hand	<b>LR</b> Left hand reversed
<b>R</b> Right hand	<b>RR</b> Right hand reversed

### FINISH

- 613** Oil Rubbed Bronze
- 626** Dull Chrome
- 629** Bright Stainless Steel

DHM Series locksets retrofit the following existing door preps of the following lock brands with rose or escutcheon trim.

Knob or lever trim mounting holes only may require relocation.

### SEE DHM TEMPLATE

- |            |             |           |
|------------|-------------|-----------|
| • Schlage  | • Hager     | • Marks   |
| • Corbin   | • Cal-Royal | • Sargent |
| • Lawrence | • Dorma     | • Arrow   |

DHM Series locksets retrofits the following existing door preps of the following lock brands with escutcheon trim only. Minor modification to key cylinder hole position is required and trim mounting holes may require relocation. See DHM template.

- Falcon
- Yale
- PDQ



### LEVER TRIM

**R** Type with rose  
**RE** Type with Escutcheon

**L** Type with rose  
**LE** Type with Escutcheon

**N** Nova with rose  
**NE** Nova with Escutcheon

**07** Schlage equivalent with B rose

**07E** Schlage equivalent with escutcheon

**12** Schlage equivalent with B rose

**12E** Schlage equivalent with escutcheon

### KEY CYLINDER - OPTIONAL

**CYL-6KD**  
6 pin, 1.125" mortise cylinder, keyed different, dull chrome

**CYL-6KA**  
6 pin, 1.125" mortise cylinder, keyed alike, dull chrome



## EntryCheck™ 918 — Digital Keypad



### EntryCheck™ 918



### EntryCheck™ 918W



### Overview

The SDC EntryCheck™ 918 Series are indoor, stand-alone digital keypads for controlling a single door with up to 500 users. Each user is assigned a personal identification number (PIN). Entering a valid 1–6 digit code energizes one or both output relays to release the electric lock.

### Integration

Model 918W interfaces with most access control systems and provides a standard 26-bit Wiegand output.

### Performance

- 12-key illuminated keypad (3×4), moisture-resistant
- Up to 500 users (stand-alone operation)
- Outputs: 4 total — 2 relays + 2 solid-state
- Output modes: Timed or latching (on/off)
- Assignable actions: Map PINs to Relay 1 and/or Relay 2
- Configurable illumination: On, Off, Timed
- Dual LED indicators: Access, Lockout
- Adjustable audible annunciation; tactile keys with selectable beep levels
- Request-to-Exit/Enter input

### Security

- Timed anti-passback and anti-tailgate functions
- Tamper-resistant screws and keypad tamper lockout

### Construction & Mounting

- Thick stainless-steel faceplate (3/32") for durability
- Single-gang mount for quick retrofit
- Programmable site code (918W)

- 918 — Stand-alone indoor digital keypad (local relays)
- 918W — Indoor keypad with 26-bit Wiegand output; single-gang; site code programmable.

# MAGLOCKS



## Specify When Ordering

- Configuration: Single / Double
- Holding force: 600 lb / 1,200 lb
- Sensor option: Standard (lock status) / DS (lock + door status)
- Voltage: 12 VDC / 24 VDC
- Finish: Anodized aluminum

## Overview

UL-Listed maglocks provide a standards-compliant locking solution for retail, healthcare, banking, and other high-security facilities. They mount on hollow metal, wood, aluminum, glass, and composite doors.

## Configurations

- Mounting: Surface mount
- Door types: Single or double
- Holding force: 600 lb or 1,200 lb models

## Built-in functions (all models)

## DS variants (door-status models)

- Add a door status sensor (reed) in addition to the lock status/LED

 <p>600 LB, SINGLE</p>	Holding Force	600 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	0.50 A @ 12 VDC; 0.25 A @ 24 VDC
	Dimensions	9.84 in (W) × 1.65 in (H) × 1.02 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

 <p>600 LB, DOUBLE</p>	Holding Force	600 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	0.50 A @ 12 VDC; 0.25 A @ 24 VDC
	Dimensions	9.84 in (W) × 1.65 in (H) × 1.02 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

# MAGLOCKS

 <p>1200 LB, SINGLE</p>	Holding Force	1200 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	0.50 A @ 12 VDC; 0.30 A @ 24 VDC
	Dimensions	10.47 in (W) × 2.87 in (H) × 1.58 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

 <p>1200 LB, DOUBLE</p>	Holding Force	1200 lb
	Input Voltage	12/24 VDC (UL-Listed power supply required)
	Current Draw	0.50 A @ 12 VDC; 0.60 A @ 24 VDC
	Dimensions	20.94 in (W) × 2.87 in (H) × 1.58 in (D)
	Housing	Anodized aluminum
	Relock Delay	0–90 s (adjustable)
	Sensor	Lock status (NO/NC) with visible LED
	Output Relay	Up to 1 A @ 24 VDC

## ACCESSORIES



10LZBRMAG3UL  
L & Z bracket  
600 lb single



10LZBRMAG1UL  
L & Z bracket  
1200 lb single



10MAG6LZUL  
(2) L & Z bracket  
600 lb single



10MAG5LZUL  
(2) L & Z bracket  
1200 lb single



10UBRACKETUL  
Glass door  
mounting kit



10RIMHOUSING3UL  
Armature plate  
housing, 600 lb



10RIMHOUSING1L  
Armature plate  
housing, 1200 lb



10FILLER14UL  
Filler plate,  
0.25 × 0.75 in



10FILLER12UL  
Filler plate,  
0.50 × 0.75 in



10FILLER34UL  
Filler plate,  
0.75 × 0.75 in



10SPACER3UL  
Vertical spacer  
bracket, 600 lb



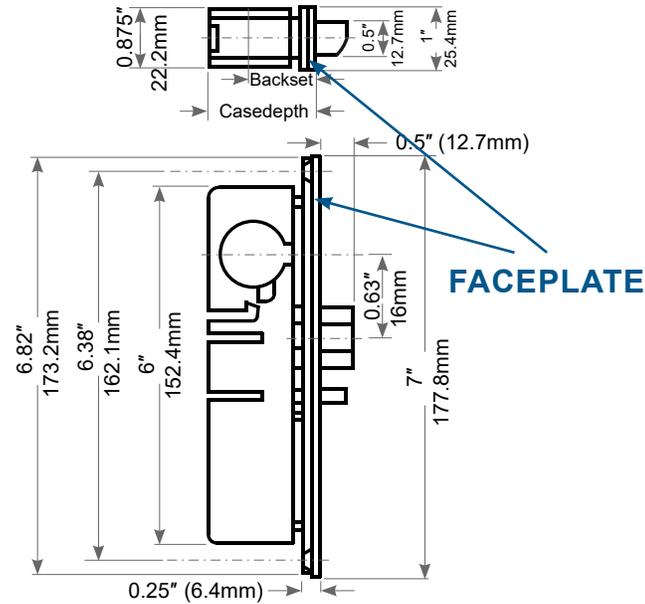
10SPACER1UL  
Vertical spacer  
bracket, 1200 lb

# DEADLATCHES, HOOKBOLTS & DEADLOCKS

## DL-4510 DEADLATCH LOCK



- Cylinder Backset Options:  $3\frac{1}{32}$ ",  $1\frac{1}{8}$ "
- Field reversible for opposite hand installation
- Key-controlled dogging function
- $\frac{1}{2}$ " throw latch bolt, chromeplated with Delrin insert for smooth, quiet latching
- Accepts standard  $1\frac{5}{32}$ " Mortise or Thumbturn Cylinders with AR MS-Type cam
- Includes SS-4510 strike (US26D finish)
- Specify: Cylinder backset and handing (if pre-handing required)



## DH-1820-H HOOK BOLT



## DH-1820-S SHORT THROW DEADLOCK



## DT-1850 LONG THROW DEADLOCK



- Cylinder Backset Options:  $3\frac{1}{32}$ ",  $1\frac{1}{8}$ ",  $1\frac{1}{2}$ "
- Throw deadbolt made of 5-ply laminated steel with hardened roller pin in a case-hardened center ply for maximum security
- Accepts standard  $1\frac{5}{32}$ " Mortise or Thumbturn Cylinders with AR MS-Type cam
- Specify: Cylinder backset

**DH-1820-H HOOK BOLT** for anti-slide and anti-pry protection, ideal for aluminum storefront and sliding door applications.  $1\frac{3}{16}$ " throw deadbolt.

**DH-1820-S SHORT THROW DEADLOCK** for compact deadlocking security where full-size or hook bolts are not required.  $1\frac{3}{16}$ " throw deadbolt.

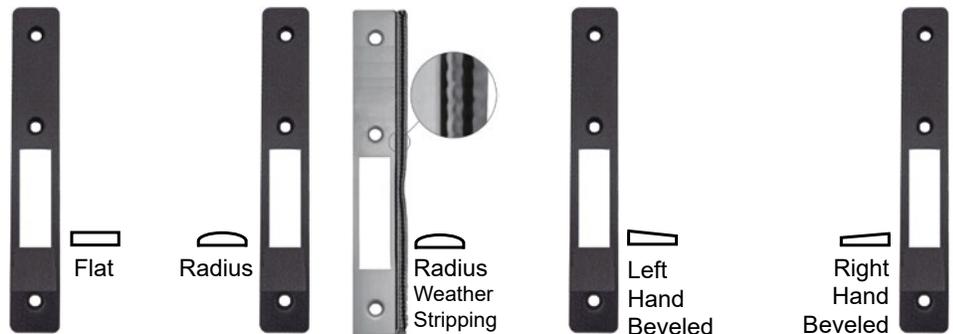
**DT-1850 LONG THROW DEADLOCK** for deeper strike engagement and maximum holding strength in high-security applications.  $1\frac{3}{8}$ " throw deadbolt.

## FACEPLATE FINISHES



AL – Anodized Satin Aluminum  
DU – Anodized Bronze

Faceplates available for all Deadbolts and Deadlatches, with or without weatherstripping.



DL-4510	FP-4511	FP-4512	FP-4513	FP-4514	FP-4515
DH-1820-H DH-1820-S	FP-1821	FP-1822	FP-1823	FP-1824	FP-1825
DT-1850	FP-1851	FP-1852	FP-1853	FP-1854	FP-1815

# THRESHOLD BOLT KIT, HEADER BOLT SETS & HEADER SIGN

## TB-4015 — THRESHOLD BOLT KIT

**Use range:** Doors with cylinder height up to 53 1/2" (threaded rod can be cut for shorter heights).  
**Bolt / throw:** 3/8" hex hardened-steel bolt; 11/16" throw.  
**Includes:** Complete kit for attaching to a basic deadlock to provide two-point security.

## TB-4016 — THRESHOLD BOLT KIT

**Use range:** Doors with cylinder height 34"–37".  
**Bolt / throw:** 3/8" hex hardened-steel bolt; 11/16" throw.  
**Includes:** Complete kit for attaching to a basic deadlock to provide two-point security.



## HS-4089 — HEADER SIGNS

## HS-4090 — HEADER SIGNS

**Use:** Transoms and door headers.  
**Construction:** One-piece self-adhesive decals.  
**Legend:** Black letters on aluminum background.

## HB-4015-N — SPECIAL HEADER BOLT SET

**Use range:** Standard for 83" doors with cylinder height  $\geq 33$ ".  
**Options:** ER-4015-N extension rod kit available for 8'–9' door heights.

## HB-4085 — HEADER BOLT SET

**Use range (CL→Top):** 30 1/2" to 50" from centerline of cylinder to top of door.

## HB-4086 — HEADER BOLT SET

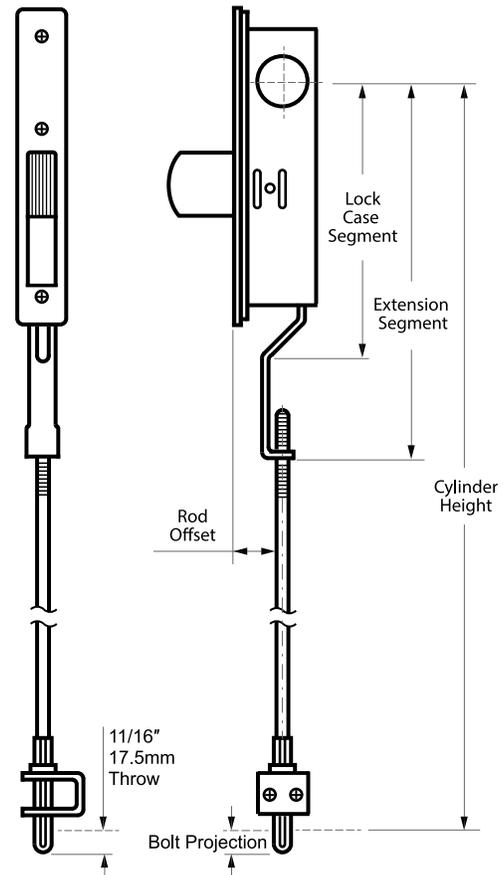
**Use range (CL→Top):** 55 5/8" to 72 1/2" from centerline of cylinder to top of door.

## HB-4087 — HEADER BOLT SET

**Use range (CL→Top):** 67" to 89" from centerline of cylinder to top of door.

### Notes:

- When paired with a basic long-throw deadlock in the active leaf, this set locks the inactive leaf. 5/8" throw expanding bolt.
- Minor post-install adjustments permitted.
- Includes: Rod guide and header strike.



### Specify When Ordering:

- Model number
- Finish (if applicable)
- Door measurement — centerline of cylinder to top of door.

# CYLINDERS, THUMBTURNS & INDICATORS

## Mortise and Rim Cylinders, Thumbturns and Lock Indicators

### CZ-1001 MORTISE CYLINDER



- 1" length, 5-pin cylinder, 1 5/32" diameter
- AR MS-Type cam
- Keyway options: Schlage "C", Yale "8"
- Core face and keyway finish: US26
- Cylinder ring sizes: 3/16" standard; 5/32" and 7/32" optional
- **Finishes Available:**
  - AL – Anodized Satin Aluminum
  - BK – Anodized Black
  - DU – Anodized Bronze

### TZ-3001 THUMBTURN CYLINDER



- 1" length cylinder, 1 5/32" diameter
- AR MS-Type cam
- Thumbturn, finish US26
- Cylinder ring sizes: 3/16" standard; 5/32" and 7/32" optional
- **Finishes Available:**
  - AL – Anodized Satin Aluminum
  - BK – Anodized Black
  - DU – Anodized Bronze

### DC-2001 DUMMY CYLINDER



- No keyway or cam
- Cylinder ring sizes: 3/16" standard; 5/32" and 7/32" optional
- **Finishes Available:**
  - AL – Anodized Satin Aluminum
  - BK – Anodized Black
  - DU – Anodized Bronze

### RZ-3001 MORTISE CYLINDER



- 5-pin cylinder
- Core face and keyway: US26
- Schlage "C" keyway
- Low-profile cylinder ring and adaptor plate standard
- Includes 1 7/8" break-away screws and 1 1/4" break-away spindle
- **Finishes Available:**
  - AL – Anodized Satin Aluminum
  - BK – Anodized Black
  - DU – Anodized Bronze

### LI-4089 LOCK INDICATOR



- For use with DH-1820 and DT-1850 deadlocks
- Displays "LOCKED" in red and "OPEN" in green on white background
- Includes adhesive-backed sign HS-4089
- Standard header sign: THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS
- **Finishes Available:**
  - AL – Anodized Satin Aluminum
  - BK – Anodized Black
  - DU – Anodized Bronze

### CG-4043 SECURITY COLLAR



- Hardened steel security ring with free-spinning beveled collar
- Designed for standard face 5-pin mortise key cylinder
- For use on aluminum doors
- Furnished with retaining clip and two spacers
- **Finishes Available:**
  - AL – Anodized Satin Aluminum
  - BK – Anodized Black
  - DU – Anodized Bronze

# PADDLE HANDLES, CAM PLUGS & LEVER HANDLES

## PH-4520 — Paddle Handle (Push or Pull)

Use with: DL-4510-type latch lock.

Operation: "PUSH" and "PULL" plates included;  
non-handed, field reversible.

Construction: Extruded aluminum handle with  
field-reversible cam plug (included).

Includes: Paddle, plates, cam plug, mounting screws.

Finishes:

- AL — Anodized satin aluminum;  
housing in baked satin-aluminum paint
- DU — Anodized storefront bronze;  
housing in baked storefront-bronze paint



## CP-4560 — Cam Plug

Use with: HL-4560 Lever Handle and  
PH-4520 Paddle Handle

Handing: Non-handed; field reversible

Purpose: Provides the cam interface for  
DL-4510-type latch bodies.



## HL-4560 — Lever Handle

Use with: DL-4510-type latch lock.

Includes: CP-4560 cam plug (field reversible)

Handing: Non-handed; field reversible.

Finishes:

- AL — Baked satin aluminum
- DU — Baked storefront bronze paint



### Specify When Ordering:

- Model number (PH-4521 paddle / HL-4560 lever assembly)
- Finish (AL, DU)
- Hand (only if a pre-handed version is specifically required)

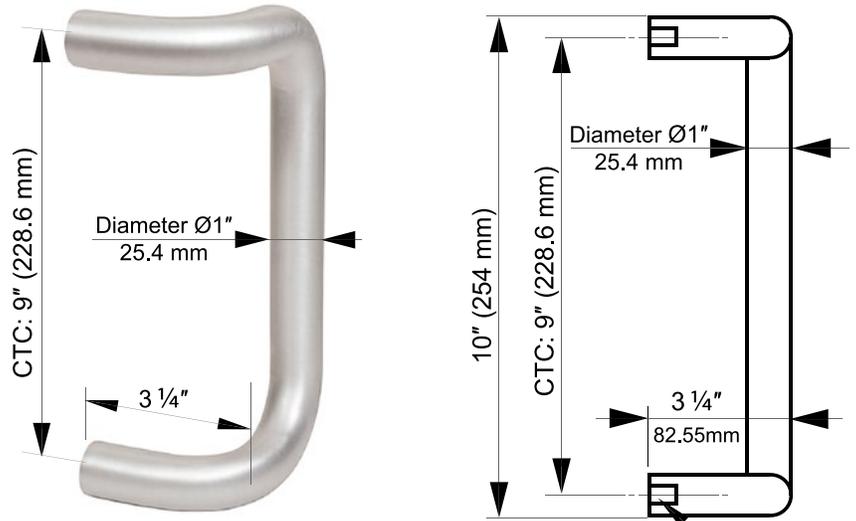
# PUSH PULL BARS & PULL HANDLES

## Door Pulls & Push Bars

Specify when ordering: Length (CTC), Finish, and Mounting hardware (T1 or T6)

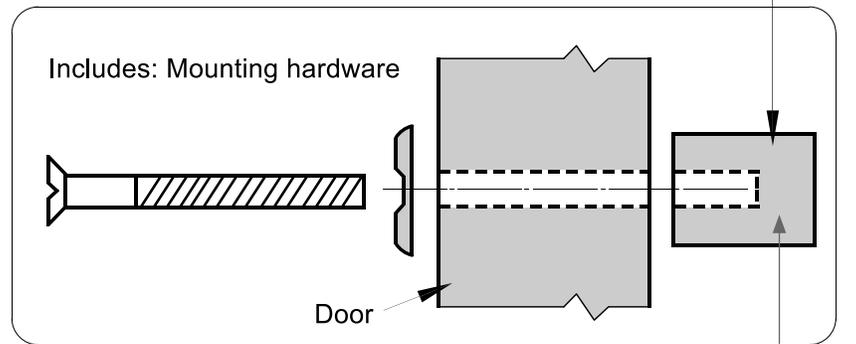
**DPH-4000-1 — Offset Door Pull**

**DPH-4000-2 — Offset Door Pull Set**



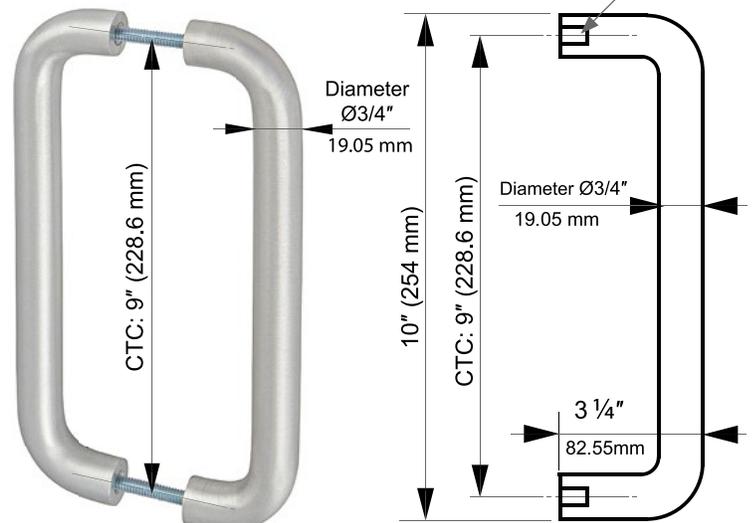
DPH-4000-1  
OFFSET DOOR  
SINGLE PULL

DPH-4000-2  
OFFSET DOOR  
PULL SET



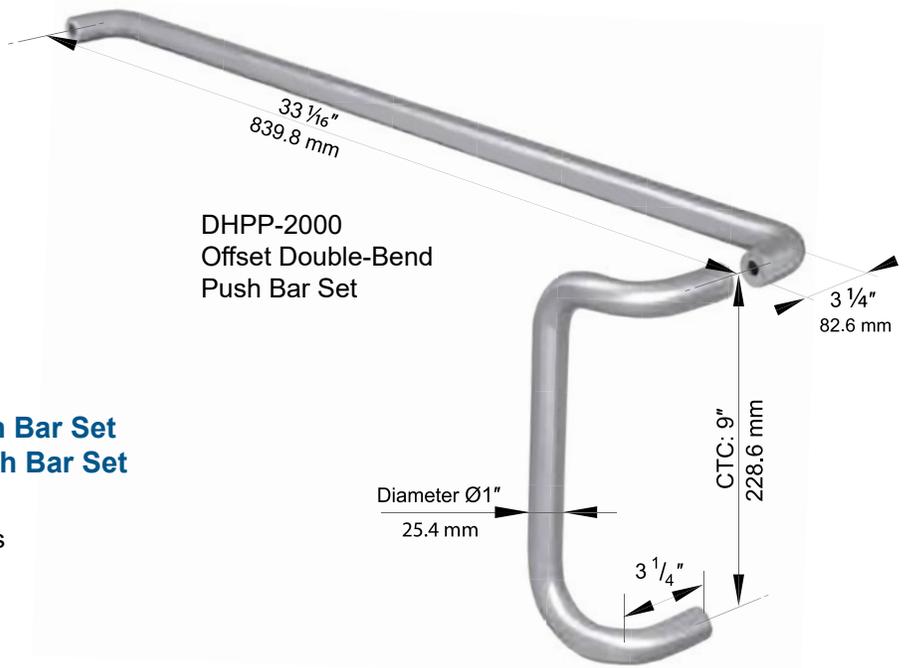
## DPH-4200 — Straight Pull Handle Set

- Material: 3/4" (19.05 mm) solid aluminum round
- Offset: 3 1/4" (82.55 mm)
- Projection: 3 1/4" (82.55 mm)
- Door clearance: 2 1/4" (57.15 mm)
- CTC options: 9", 10", 12"  
(228.6, 254, 304.8 mm)
- Includes: Mounting hardware
- **Finishes:**  
AL (anodized aluminum),  
DU (storefront bronze).  
Other finishes on request





DHPP-1000  
Offset Single-Bend  
Push Bar Set



DHPP-2000  
Offset Double-Bend  
Push Bar Set

**DHPP-1000 — Offset Single-Bend Push Bar Set**  
**DHPP-2000 — Offset Double-Bend Push Bar Set**

- Material: 1" (25.4 mm) solid aluminum round
- Projection: Refer to Pull/Push Specifications
- Includes: Mounting hardware
- **Finishes:**  
 AL (anodized aluminum),  
 DU (storefront bronze).  
 Other finishes on request



DHPB-1000 — Single-Bend Push Bar



DHPB-2000 — Double-Bend Push Bar

**DHPB-1000 — Single-Bend Push Bar**  
**DHPB-2000 — Double-Bend Push Bar**

- Material: 1" (25.4 mm) solid aluminum round
- Projection: 2 1/4" (57.15 mm)
- Door clearance: 1 1/4" (31.75 mm)
- CTC options: 33 1/16", 39 1/16", 45 1/16"  
 (839.8 mm, 992.2 mm, 1144.6 mm)
- Includes: Mounting hardware
- **Finishes:**  
 AL (anodized aluminum),  
 DU (storefront bronze).  
 Other finishes on request

Model	Product Type	Offset	Projection	Door Clearance	CTC Option	Finish Option	Mounting Hardware
DHPH-4000-1	Offset Door Pull	3 1/4" (82.55 mm)	3 1/4" (82.55 mm)	2 1/4" (57.15 mm)	9", 10", 12" (228.6 mm, 254 mm and 304.8 mm)	AL, DU	Included
DHPH-4000-2	Offset Door Pull Set						
DHPH-4200	Straight Pull Handle Set						
DHPP-1000	Offset Single-Bend Push Bar Set	N/A	See Specs	N/A	N/A	AL, DU	Included
DHPP-2000	Offset Double-Bend Push Bar Set						
DHPB-1000	Single-Bend Push Bar	N/A	2 1/4" (57.15 mm)	1 1/4" (31.75 mm)	33 1/16", 39 1/16", 45 1/16" (839.8 mm, 992.2 mm, and 1144.6 mm)	AL, DU	Included
DHPB-2000	Double-Bend Push Bar						

# STRIKE SETS (STAINLESS STEEL • NON-HANDED)



## SC-4510 — Offset Door & Frame (New Install)

- **Use:** New installation with DL-4510 deadlatch on offset door and frame
- **Includes:** Strike plate, dust box, back-up plate, screws

## SC-4540-2 / SC-4545-2 — Center-Hung (Replace MS)

- **Use:** Replaces an MS-type lock with a DL-4510 on center-hung door and frame
- **Door jamb sizes:** SC-4540-2 = 4", SC-4545-2 = 4 1/2"
- **Includes:** Strike plate, dust box, back-up plate, screws



## SC-4520 — Offset Door & Frame (Replace MS)

- **Use:** Replaces an MS-type lock with a DL-4510 on offset door and frame
- **Includes:** Strike plate, dust box, back-up plate, screws
- **Note:** Non-handed

## SS-4510 / SP-4510 — Individual Strikes

- **SS-4510 Standard Strike:**  
Stainless steel; press-formed countersunk mounting holes
- **SP-4510 Special Strike:**  
Stainless steel; flat-back countersunk mounting holes

## SC-4540-1 / SC-4545-1 — Center-Hung (New Install)

- **Use:** New installation with DL-4510 deadlatch on center-hung door and frame
- **Door jamb sizes:** SC-4540-1 = 4", SC-4545-1 = 4 1/2"
- **Includes:** Strike plate, dust box, back-up plate, screws

Use	Door Jamb	Kit
New install • Offset	—	SC-4510
Replace MS • Offset	—	SC-4520
New install • Center-hung	4" or 4 1/2"	SC-4540-1 SC-4545-1
Replace MS • Center-hung	4" or 4 1/2"	SC-4540-2 SC-4545-2

### Specify When Ordering:

- **Model Number** (e.g., SC-4540-2)
- **Door Type** (Offset / Center-hung)
- **Jamb Size** (4" or 4 1/2" where applicable)
- **Finish / Material** if options apply

# DOOR HOLDER

## Kick-Down Door Holder

**Model:** DHHDKD

### What It Does

Foot-operated kick-down holder keeps the door open at a set position; flips up with a toe to release.

### Key Features

- Zinc-alloy construction for strength and corrosion resistance
- Non-marking rubber tip protects floors and thresholds
- 7" body height for easy toe operation and added leverage
- Field-reversible mounting for left or right door edges.
- For wood, metal, or aluminum doors (use included screws)

### Specifications

- Overall height: 7" (178 mm)
- Foot tip diameter: ~1" (25 mm) non-marking rubber
- Material/finish: Die-cast zinc body; see finishes below
- Recommended install height: 1–2" (25–50 mm) above floor at resting position

### Finishes Available

- AL — Aluminum (Satin)
- DU — Storefront Bronze

### Included Mounting Screws (qty 6)

- (2) #10 × 1-1/2" self-drilling / self-tapping (metal doors)
- (2) #10 × 1-1/2" flat-head wood / sheet-metal
- (1) #10 × 1/2" flat-head wood / sheet-metal
- (1) #10 × 1/2" self-drilling / self-tapping

 Tip: Use the longer screws for the body, the 1/2" screws for the rubber-tip guard or where cavity depth is limited.

### Replacement Parts

DHHDKD-HOLDER-TIP — Replacement non-marking rubber tip (black)



### Specify When Ordering

- Model (DHHDKD)
- Finish (AL or DU)
- Door material (wood/metal/aluminum)

# ALUMINUM PIVOTS

## 3/4" Offset for Use with Aluminum Doors and Frames

DH20 SERIES	DH30 SERIES	DH40 SERIES	DH50 SERIES	DH60 SERIES	DH70 SERIES	DH80 SERIES	DH90 SERIES
 <p><b>DH-OP27</b> (Non-Handed) Flush Door</p> <p><b>DH-OP28</b> (Non-Handed) 1/8" Recessed Door</p>	 <p><b>DH-OP30-L</b> Left Flush Door</p> <p><b>DH-OP31-L</b> Left 1/8" Recessed Door</p> <p><b>DH-OP31-R</b> Right 1/8" Recessed Door</p> <p><b>DH-OP30-R</b> Right Flush Door</p>	 <p><b>DH-OP40-L</b> Left Flush Door</p> <p><b>DH-OP40-R</b> Right Flush Door</p>	 <p><b>DH-OP50-L</b> Left 1/8" Recessed Door</p> <p><b>DH-OP50-R</b> Right 1/8" Recessed Door</p>	 <p><b>DH-OP60-L</b> Left 7/64" Recessed Door</p> <p><b>DH-OP60-R</b> Right 7/64" Recessed Door</p>	 <p><b>DH-OP70-L</b> Left 1/8" Recessed Door</p> <p><b>DH-OP70-R</b> Right 1/8" Recessed Door</p>	 <p><b>DH-OP80-L</b> Left 1/8" Recessed Door</p> <p><b>DH-OP80-R</b> Right 1/8" Recessed Door</p>	 <p><b>DH-OP90-L</b> Left 1/8" Recessed Door</p> <p><b>DH-OP90-R</b> Right 1/8" Recessed Door</p>

## DH Pivots Cross References

DH20 SERIES	DH30 SERIES	DH40 SERIES	DH50 SERIES	DH60 SERIES	DH70 SERIES	DH80 SERIES	DH90 SERIES
All American Entrance Tech Jackson 27 Jackson 28 Rebco West Sun Valley Vistawall	All American Arcadia Arch Aluminum Commercial Arch Pacific Western Rebco Southwest Alum Tubelite Vistawall	A Door MFG Entrance Tech Sun Valley Us Aluminum	Aldora	Arch Aluminum Armalite Wells Aluminum	Kawneer	Pitco Pittco/PPG	YKK

## Intermediate Pivot Set

 <p><b>DH-IPS-1900</b> INTERMEDIATE PIVOT SET</p> <p>Ordering Information DH-IPS-1900-L DH-IPS-1900-R</p>	 <p><b>DH-IPS-2200</b> INTERMEDIATE PIVOT SET</p> <p>Ordering Information DH-IPS-2200-L DH-IPS-2200-R</p>
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# DOOR SEALS & WEATHERSTRIPS

	DHDS001 - Triple Blade Vinyl Door Sweep	DHDS002 - Single Blade Vinyl Door Sweep	DHDS011 Nylon Brush Door Sweep	DHWS001 Vinyl Weatherstrip (bulb)
<b>Seal</b>	Extruded vinyl blade on aluminum holder	Tapered vinyl blade for a softer close and tighter contact on smooth sills	Dense nylon brush crimped in aluminum holder	Compressible vinyl bulb on aluminum carrier
<b>Mounting</b>	Surface-mounted to door bottom (pull side)	Door bottom (pull side)	Door bottom (pull side)	Jamb/stop (hinge & strike sides, and head)
<b>Use</b>	Everyday exterior/interior doors with smooth thresholds; drafts, light, dust control	Best where a gentle, quiet seal is preferred; good for modest out-of-level sills	Uneven floors, carpet, or rough thresholds; resists abrasion and lets air move while blocking dust/insects	Perimeter seal to pair with door sweeps for full 3-sided weatherproofing
<b>Finish</b>	AL, DU	AL, DU	AL, DU	AL, DU
<b>Lengths</b>	36" and 48"	36" and 48"	36" and 48"	36" × 84" and 48" × 84"
<b>Includes</b>	Mounting screws	Mounting screws	Mounting screws	Mounting screws

## How to Choose

Smooth threshold → Vinyl blade (DHDS001/002) for tightest seal.

Irregular floor / carpet → Brush (DHDS011) for durability & glide.

Full perimeter → Add DHWS001 on jamb/stop.

## Ordering Information

Specify when ordering:  
Model • Length • Finish

Note: All sweeps/strips are field-trim capable; fasteners included.

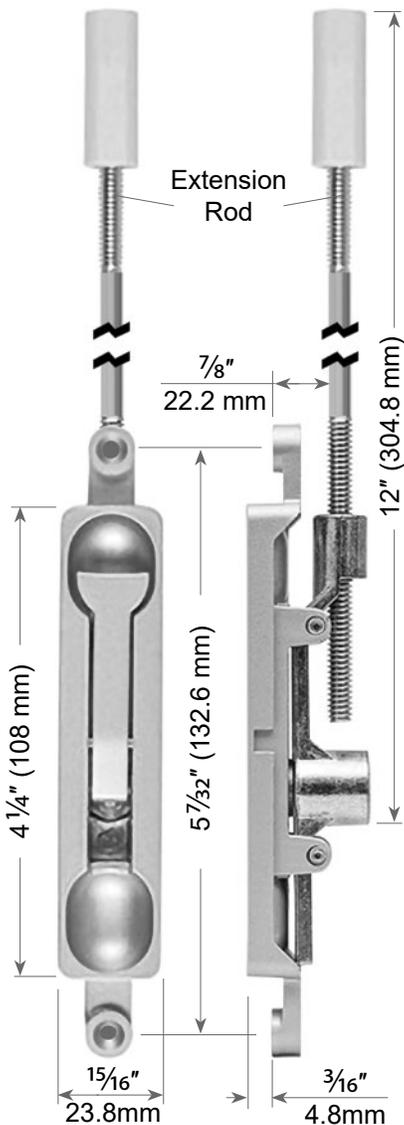
## Install Notes

Set blade/brush to just touch the threshold—do not preload.

Pre-drill aluminum and avoid overtightening.

Clean seal periodically for best performance.

# FLUSHBOLT



## DH FB1 FLUSHBOLT

- Faceplate: 15/16" × 4 1/4" radius corners
- Actuator: Positive "U" joint, 5/8" throw
- Offsets available: 1/8", 3/16", 1/4" (with 7/8" backset)
- Rod: Designed for 12" centerline
- Tip: Square nylon, beveled corners; fits 1/2" square hole
- **Finishes:**  
AL — baked satin aluminum paint  
BK — baked black paint  
DU — baked storefront bronze paint

### Ordering Information

DHFB1 Flushbolt (includes guide)

- 1/8" offset
- 3/16" offset
- 1/4" offset

**Specify:** model number + finish

## ACCESSORIES

### DHFB1 & DHFB2 Flushbolt Extension Rod

- 1/4-20 × 12" threaded rod
- Includes coupler



## DH FB2 FLUSHBOLT

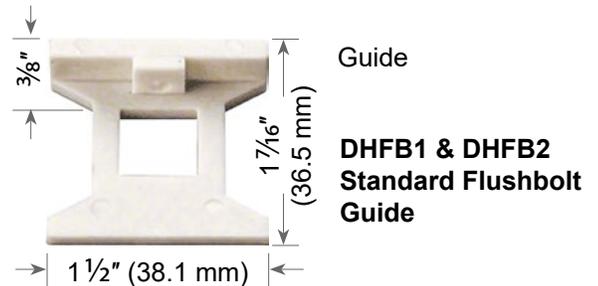
- Faceplate: 15/16" × 4 1/4" radius corners
- Actuator: Positive "U" joint, 7/8" throw
- Offsets available: 1/8", 1/4" (with 7/8" backset)
- Rod: Designed for 12" centerline
- Tip: Square nylon, beveled corners; fits 1/2" square hole
- **Finishes:**  
AL — baked satin aluminum paint  
BK — baked black paint  
DU — baked storefront bronze paint

### Ordering Information

DHFB2 Flushbolt (includes guide)

- 1/8" offset
- 1/4" offset

**Specify:** model number + finish



MODEL	FACEPLATE SIZE	BOLT THROW	OFFSETS AVAILABLE	BACKSET	ROD LENGTH	TIP TYPE	FINISHES
DHFB1	15/16" × 4 1/4"	5/8"	1/8", 3/16", 1/4"	7/8"	12"	Square Nylon	AL, BK, DU
DHFB2	15/16" × 4 1/4"	7/8"	1/8", 1/4"	7/8"	12"	Square Nylon	AL, BK, DU

## Installation Guidelines (Best Practices)

- Ensure alignment. The flushbolt must align with the strike plate to lock and unlock smoothly.
- Drill clean cutouts. Use sharp bits for precise faceplate and bolt pockets.
- Fasten securely. Tighten screws firmly without over-torquing to avoid stripping or misalignment.
- Function test. After install, engage/retract the bolt several times to verify smooth operation.

## Choose the Right Offset

- Measure door edge to strike lip clearance.
- Start with 1/8" offset for tight/standard gaps.
- Use 3/16" or 1/4" if bolt misses/drag; choose the smallest offset that aligns cleanly.

# DH5000 SERIES / GRADE 2 / EXIT DEVICES

Our DH5000 Series Exit Devices meet the demand for superior emergency hardware. These durable devices are designed to meet the needs of modern touch-bar styling for heavy-traffic applications by eliminating the need for lever arms and crossbars.

## Code & Listing

- Devices are UL listed for accident-hazard (panic) and fire-exit applications to applicable UL and UBC standards.
- UL / ULC listed panic hardware – Listed by Underwriters Laboratories (UL in the USA and ULC in Canada) for accident-hazard (panic) installations.
- UL 305 compliant – Meets the requirements of UL 305 for panic hardware.
- Listed fire-exit hardware – Listed as fire-exit hardware in accordance with UL 10C and Uniform Building Code Standard 7-2 “Fire Tests of Door Assemblies” (1997).

## Operation & Life-Safety

- Non-handed design – All devices are non-handed and can be used on right- or left-hand doors.
- Fast, easy egress – Slight pressure on the touch bar retracts the latch(es) for immediate exit.

## Security & Abuse Resistance

- Guarded latch security
  - The auxiliary guarded latch deadlocks the latch bolt automatically when the door is closed.
- Vandal-resistant mechanism
  - High shock-resistant latching mechanism provides protection against vandalism.
- Through-bolted trims
  - All trims feature a through-bolted design for increased security and long-term durability.

## Materials & Corrosion Protection

- Heavy-duty internal components – All internal components are made of highly rust-resistant alloy or heavily electroplated steel to prevent corrosion.

## Trims & Design Options

- Trim choices – Outside trims are available with rose or escutcheon plates and levers or knobs in a variety of styles to suit buyer preference.



## Finishes & Appearance

- Architectural finishes – Baked powder-coat, electroplated, or architectural base-material finishes are available on all exposed surfaces to match a wide range of décors.

## Traffic Management & Service Life

- Dogging function – Optional dogging mechanism allows hex-key or cylinder operation for positive push-pull door action during peak-traffic periods.
- Extended product life – This dogging feature reduces wear on the latching mechanism and helps extend the service life of the exit device (panic models only).

## Typical Applications

- Schools and universities
- Hospitals and medical offices
- Office buildings and warehouses
- Shopping centers and public facilities
- Much more...

# DH5000 SERIES / GRADE 2 / EXIT DEVICES



DH5510S Panic Rim Exit Device  
DH5510F Fire Rim Exit Device



DH5610S Narrow Design  
Panic Rim Exit Device



DH5530S Panic Rim Exit Device  
DH5530F Fire SVR Exit Device



DH5630S Narrow Design  
Panic SVR Exit Device

## DH5510 SERIES RIM EXIT DEVICE DH5530 SERIES SVR EXIT DEVICE

These two series are wide-stile designs,  
UL listed as panic hardware or fire exit hardware.

### Rim Type – Ideally suited for:

- Any single exterior door
- Any panic or fire-rated interior single door, and all exit doors in factories, hospitals, apartments, and office buildings
- Indoor parking garages

### SVR Type – Ideally suited for:

- Any pair of emergency exit doors
- Pairs of doors in cross-corridor applications
- Double-egress applications
- Passage doors in hospitals, factories, or any public buildings.

## DH5610 NARROW DESIGN PANIC RIM DEVICE DH5630 NARROW DESIGN PANIC SVR DEVICE

These two models are narrow-stile designs,  
UL listed as panic hardware.

### Rim type and SVR type

#### – Both types ideally suited for:

- Contemporary glass doors in modern buildings
- Aluminum entrance doors
- Passage doors in courthouses
- Full-glass doors in retail stores and resort hotels

# DH5510 SERIES / GRADE 2 / RIM EXIT DEVICES

**DH5510S Panic-Rated Rim Exit Device — For wide-stile and flush doors**

**DH5510F Fire-Rated Rim Exit Device — For wide-stile fire-labeled doors**



Hex Key dogging Standard, Cylinder dogging is for option

## Application

- For use on single doors or double doors with mullion. Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).



## DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required. Steel, plated.



## DH532 Panic Rim Strike

Surface-applied strike. Standard on DH5000 Series panic rim exit devices. Stainless steel with plated roller.



## DH533 Fire Rim Strike

Surface-applied strike. Standard on DH5000 Series fire rim devices. 100% stainless steel, including the roller.

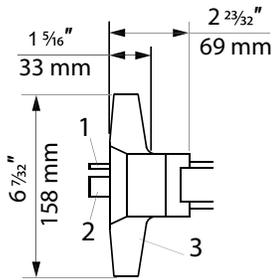
## Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH533 rim (fire-rated); DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 66
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See next page
Device Length	See next page
UL Listed	For panic hardware (original listed model no.: DH500SA); for fire-exit hardware (original listed model no.: DH500AF)

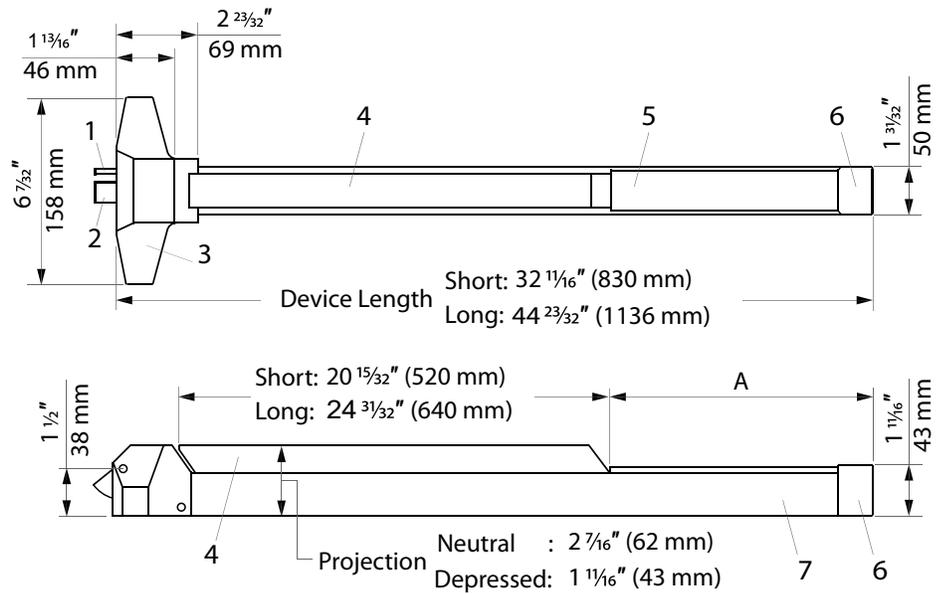
\* Fire-rated rim devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

# DIMENSIONS, PART NAMES & DEVICE LENGTH

## Narrow Stile



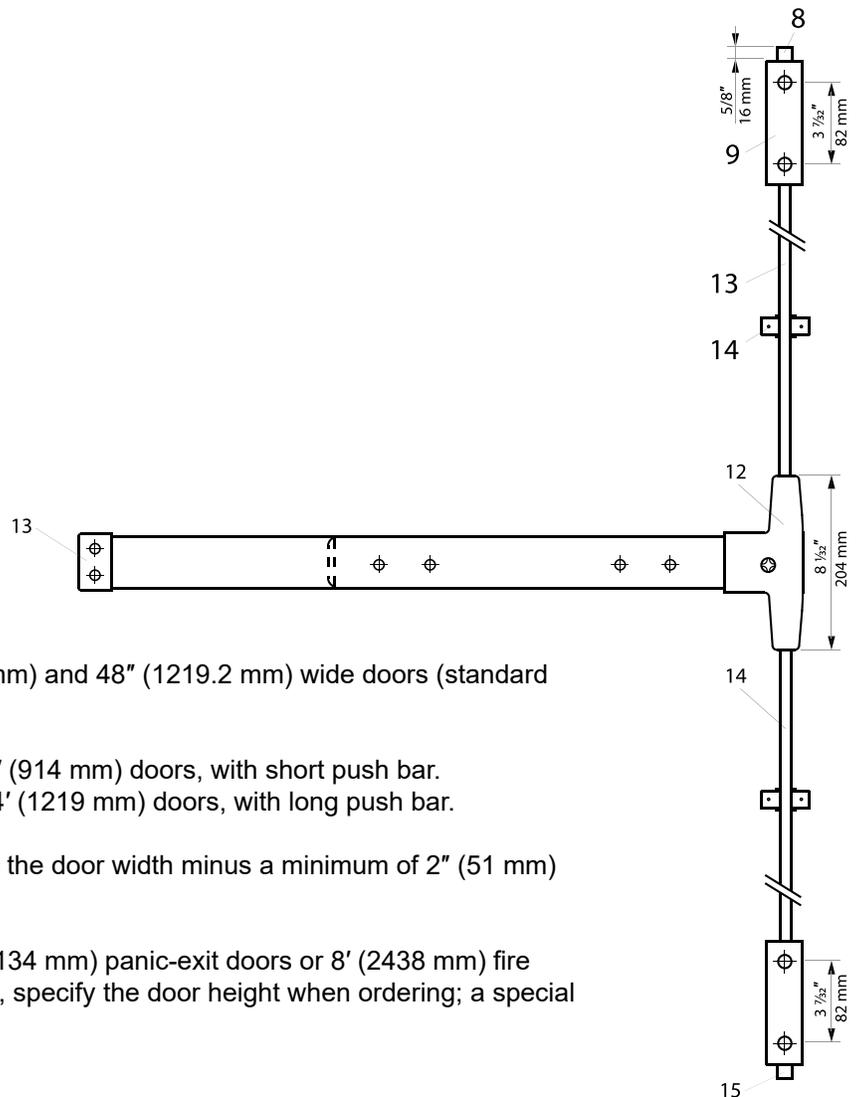
## Wide Stile



## DH5000 Series Exit Device

### Part Names

1. Auxiliary Guarded Latch
2. Latch Bolt
3. Chassis Cover (also called Head Cover)
4. Push Bar
5. Dogging Plate
6. End Cap
7. Mechanism Housing (also called Device Body)
8. Top Latch
9. Latch Assembly Cover
10. Top Vertical Rod
11. Rod Guide
12. Chassis
13. End Cap Bracket
14. Bottom Vertical Rod
15. Bottom Latch



### Device Length

Device lengths are pre-cut for use on 36" (914.4 mm) and 48" (1219.2 mm) wide doors (standard shipping sizes); no additional cutting is required.

Short 36" – Device length is 32 5/8" (830 mm) for 3' (914 mm) doors, with short push bar.

Long 48" – Device length is 44 7/8" (1136 mm) for 4' (1219 mm) doors, with long push bar.

For narrow-door installations, cut dimension "A" to the door width minus a minimum of 2" (51 mm) to ensure a proper fit.

Our standard vertical rod set accommodates 7' (2134 mm) panic-exit doors or 8' (2438 mm) fire doors. For doors higher than these standard sizes, specify the door height when ordering; a special longer top rod will be furnished.

# DH5530 SERIES / GRADE 2 / SVR EXIT DEVICES

**DH5530S Panic-Rated Surface Vertical Rod Exit Device — For wide-stile and flush doors**

**DH5530F Fire-Rated Surface Vertical Rod Exit Device — For wide-stile fire-labeled doors**

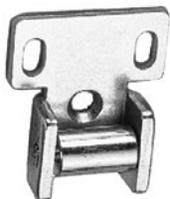
## Application

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).  
Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).

These SVR models cannot omit the bottom rod or be used as Less Bottom Rod (LBR) devices. If an LBR configuration is desired, the device must be retested and approved by a nationally recognized test laboratory.

## DH534 Top Strike

Surface-applied to stop.  
Hardened, plated steel.



## DH537 Bottom Strike

Surface-applied to floor.  
Non-ferrous alloy, plated.



Our model no. DHLBR5530F fire-rated LBR device has been approved by UL individually. It must be used with a UL listed fire latch bolt; see page 66 Model FL001.

## Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 1/2" (13 mm) throw
Vertical Rods	Tubular aluminum with rod guides

Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard; less dogging, see page 64.
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 57
Device Length	See page 57
UL Listed	For panic hardware (original listed model no.: DH900SA) and fire-exit hardware

\* Fire-rated SVR devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

# DH5610S PANIC-RATED / GRADE 2 / RIM EXIT DEVICES

## DH5610S Panic-Rated Rim Exit Device — For narrow-stile doors



Hex Key dogging Standard,  
Cylinder dogging is for option

### Application

- For use on single doors or double doors with mullion. Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 2 1/2" (63 mm).

### Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) are required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 66
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 57
Device Length	See page 57
UL Listed	For panic hardware (original listed model no.: DH500S)



### DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required. Steel, plated.



### DH532 Panic Rim Strike

Surface-applied strike. Standard on DH5000 Series panic rim exit devices. Stainless steel with plated roller.

\* Fire-rated rim devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

# DH5630S PANIC-RATED SVR EXIT DEVICES

## DH5630S Panic-Rated Surface Vertical Rod Exit Device — For narrow-stile exit doors

### Applications

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).  
Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 2 1/2" (63 mm).

### DH534 Top Strike

Surface-applied to stop.  
Hardened, plated steel.



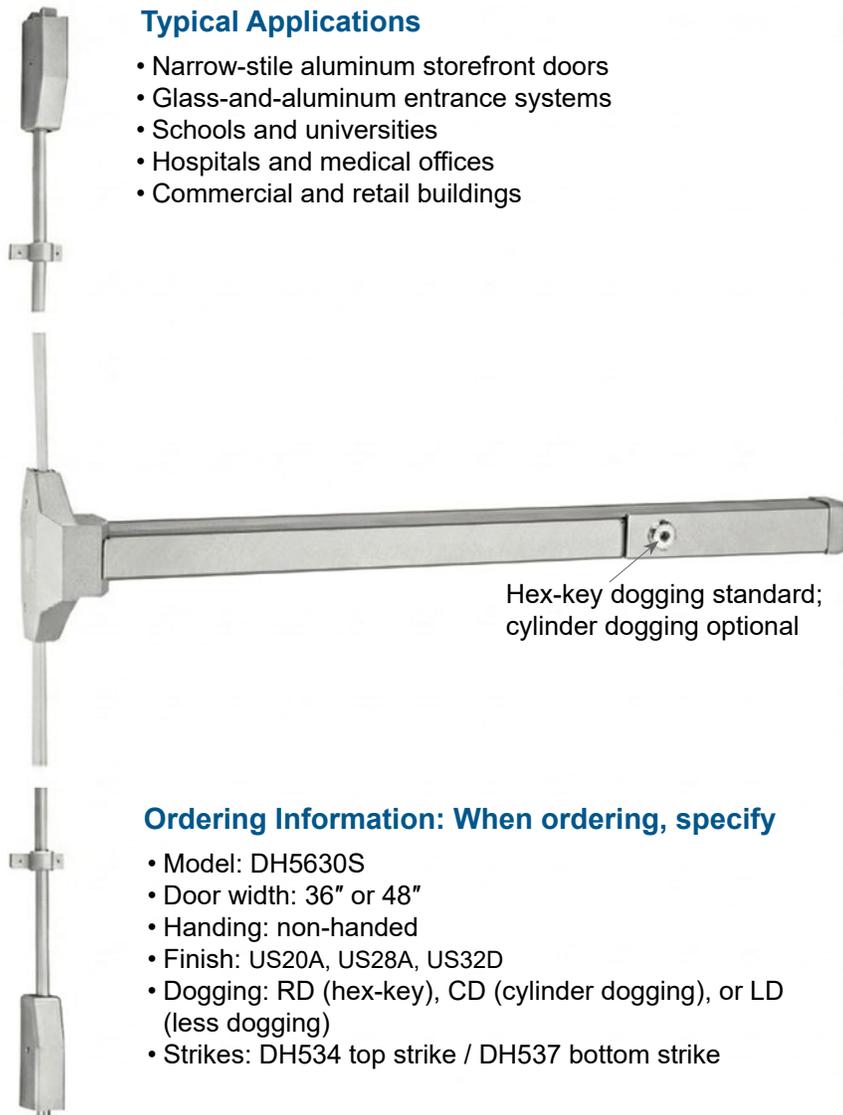
### DH537 Bottom Strike

Surface-applied to floor.  
Non-ferrous alloy, plated.



### Typical Applications

- Narrow-stile aluminum storefront doors
- Glass-and-aluminum entrance systems
- Schools and universities
- Hospitals and medical offices
- Commercial and retail buildings



Hex-key dogging standard;  
cylinder dogging optional

### Ordering Information: When ordering, specify

- Model: DH5630S
- Door width: 36" or 48"
- Handing: non-handed
- Finish: US20A, US28A, US32D
- Dogging: RD (hex-key), CD (cylinder dogging), or LD (less dogging)
- Strikes: DH534 top strike / DH537 bottom strike

### Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, 1/2" (13 mm) throw
Latch Case Covers	Steel or stainless steel
Vertical Rods	Tubular aluminum with rod guides

Strikes	Top DH534, bottom DH537
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging	Dogging — Hex-key dogging standard (Allen-type key furnished)
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 57
Device Length	See page 57
UL Listed	For panic hardware (original listed model no.: DH900S)

# DH5900 SERIES / GRADE 1 / EXIT DEVICES

**DH5910S Panic-Rated Rim Exit Device — For wide-stile and flush doors**

**DH5910F Fire-Rated Rim Exit Device — For wide-stile fire-labeled doors**



## Application

- For use on single doors or on double doors with mullion, where a two-point latch is desired..  
Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).



## Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, deadlocking type, 11/16" (17 mm) throw
Deadlocking Latch	100% stainless steel, 5/8" (16 mm) throw
Strikes	DH533 rim (fire-rated); DH531 and DH532 rim (panic-rated)
Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard (Allen-type key furnished)
Dogging Options	Cylinder dogging or less dogging; see page 66
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 62
Device Length	See page 62
UL Listed	For panic hardware and fire-exit hardware



### DH531 Strike Shim

Furnished with the DH532 strike. This 1/8"-thick shim is used on doors with a 1/2" stop to obtain the correct distance between the device latch and the surface-applied strike when the stop is 1/2" high. If the frame has a 5/8" stop, this shim is not required.  
Steel, plated.



### DH532 Panic Rim Strike

Surface-applied strike.  
Standard on DH5000 Series panic rim exit devices.  
Stainless steel with plated roller.



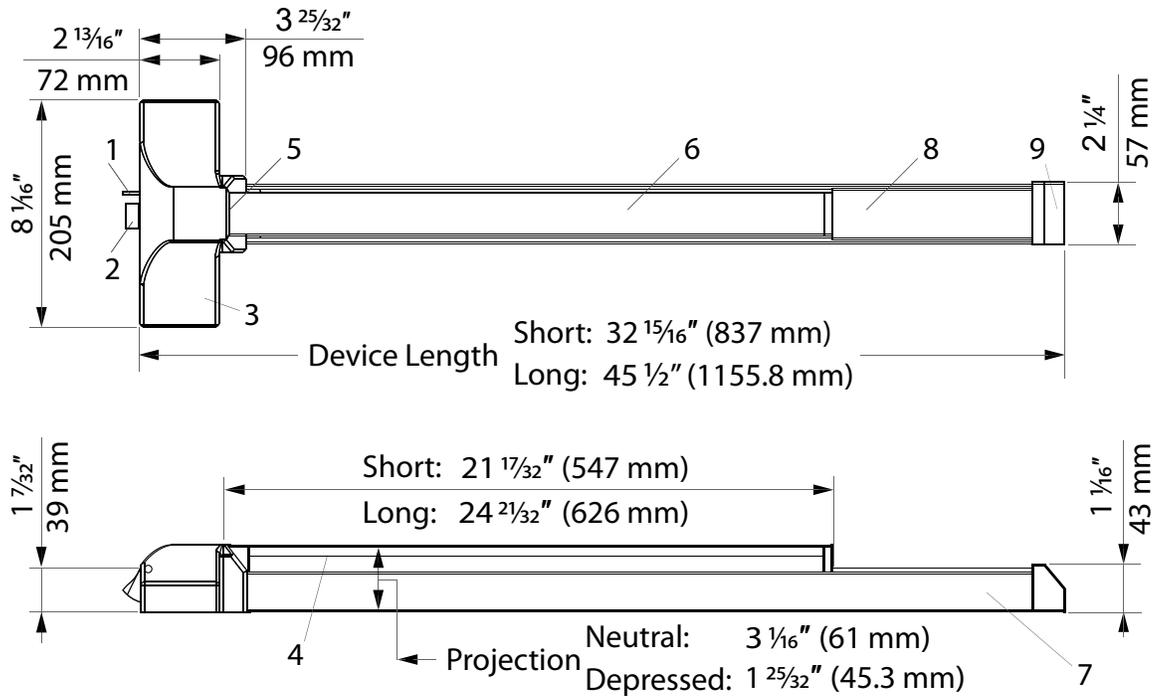
### DH533 Fire Rim Strike

Surface-applied strike.  
Standard on DH5000 Series fire rim devices.  
100% stainless steel, including the roller.

\* Fire-rated rim devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

# DIMENSIONS, PART MATERIALS & DEVICE LENGTH

## Dimensions



## Part Materials

1. Auxiliary Guarded Latch	Stainless steel
2. Latch bolt, 3/4" (19 mm) throw	Stainless steel
3. Chassis Cover	Nonferrous alloy or stainless steel
4. Push Bar	Steel or stainless steel
5. Push Bar End Cap	Steel or stainless steel
6. Push Bar Trim	Steel or stainless steel
7. Mechanism Housing (or Device Body)	Steel or stainless steel
8. Dogging Plate (or Device Body)	Steel or stainless steel
9. End Cap	Steel or stainless steel

## Device Length

Device lengths are pre-cut for use on 36" (914.4 mm) and 48" (1219.2 mm) wide doors (standard shipping sizes); no additional cutting is required.

Short 36" – Device length is 32 15/16" (837 mm) for 3' (914 mm) doors, with short push bar.  
 Long 48" – Device length is 45 1/2" (1155.8 mm) for 4' (1219 mm) doors, with long push bar.

For narrow-door installations, cut dimension "A" to the door width minus a minimum of 2" (51 mm) to ensure a proper fit.

Our standard vertical rod set accommodates 7' (2134 mm) panic-exit doors or 8' (2438 mm) fire doors. For doors higher than these standard sizes, specify the door height when ordering; a special longer top rod will be furnished.

# DH5930 SERIES / GRADE 1 / SVR EXIT DEVICES

**DH5930S Panic-Rated Surface Vertical Rod Exit Device — For wide-stile and flush doors**

**DH5930F Fire-Rated Surface Vertical Rod Exit Device — For wide-stile fire-labeled doors**

## Application

- For use on all single doors and on double doors where two-point latching is desired (for example, on the inactive leaf of a pair in specialty applications).  
Fire-rated devices must be used on 4' x 8' single doors or 8' x 8' double fire-labeled doors.
- Fits 1 3/4" (44 mm) thick standard RHR or LHR hollow metal or wood doors. Other thicknesses are available; specify door thickness when ordering.
- Minimum stile width: 3 1/2" (90 mm).

These SVR models cannot omit the bottom rod or be used as Less Bottom Rod (LBR) devices.

If an LBR configuration is desired, the device must be retested and approved by a nationally recognized test laboratory.



## DH534 Top Strike

Surface-applied to stop.  
Hardened, plated steel.



## DH537 Bottom Strike

Surface-applied to floor.  
Non-ferrous alloy, plated.



## Specifications

Device Head Cover	Stainless steel or non-ferrous alloy
Chassis	Plated steel
Mechanism Housing	Steel or stainless steel
Push Bar	Steel or stainless steel
End Cap	Steel or stainless steel
Latch Bolt	100% stainless steel, 1/2" (13 mm) throw
Vertical Rods	Tubular aluminum with rod guides

Handing	Non-handed
Mounting Fasteners	Machine screws furnished as standard. Sex nut and bolt (SNB) required for wood doors; order SNB separately
Dogging*	Hex-key dogging standard; less dogging, see page 66.
Finish	Standard finishes: US20A, US28A, US32D
Dimension	See page 62
Device Length	See page 62
UL Listed	For panic hardware and fire-exit hardware

\* Fire-rated SVR devices have no mechanical dogging. Dogging mechanisms are not permitted on fire-rated exit devices.

# ESCUTCHEON LEVERS / EXIT DEVICES

## DH58L Series — Escutcheon Levers

- Non handed, easily installed with exit device
- Provides four finishes for user and architect selection: US3 (605), US20A (690), US28 (689), and US32D (630).
- Four trim models are available to meet different functional needs; see the chart below.
- Trim is through-bolted directly to the device chassis with two bolts for increased security and durability. Standard for 1 3/4" (44 mm) thick doors. For 2" (51 mm) or 2 1/4" (57 mm) thick doors, or when used with a shim-mounted exit device, specify door thickness when ordering.

### Models and Functions

Device Head Cover  (Dummy trim is not recommended for fire-rated devices)	Key Locks & Unlocks Lever 	Lever Always Active (No Cylinder) 	Key Retracts Latch Bolt 	Pull When Dogged 
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Escutcheon Lever	Dummy Escutcheon Lever
Model Number and Use	DH58L01A	D58L01B	DH58L01C	DH58L01D
	For DH5500, DH5700, DH5900 Rim, SVR and LBR devices			
Escutcheon Plate Size	8 1/16" x 2 5/8" x 25/32" (205 mm x 67 mm x 21 mm)			
ANSI Function No.	08	14	09	02
Cylinder Type	1 1/4" Mortise	–	Mortise	–

- Escutcheon is made of steel or stainless steel; lever handle is made of zinc alloy.
- When keyed operation is required, the trims can accept cylinders from other manufacturers.
- Cylinder is not supplied as standard. Specify cylinder type (RC – Regular Cylinder, IC – Interchangeable Core, NC – No Cylinder) when a cylinder is required.

**Cylinder Selection** The cylinder has two types as shown below:



Mortise  
Cylinder  
DH526

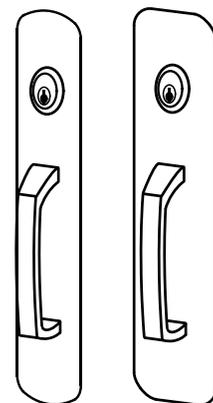


Rim Cylinder  
DH426

# STANDARD AND RAISED-LIP PULL PLATES / EXIT DEVICES

## DH56P and DH54P Series — Standard Pull Plates

Trim Designation	Cylinder Pull Plate (with cylinder)	Dummy Pull Plate (without cylinder)	Flat Plate (without cylinder or grip)
Function	Storeroom (Night Latch)	Dummy	N/A
Operation	Key Retracts Latch Bolt	Pull when dogged (not for use with a fire-rated device)	N/A
Escutcheon Plate Size	DH56P Series – L 11 13/16" × W 3" × T 3/32" (300 mm × 76 mm × 2 mm) DH54P Series – L 11 1/16" × W 1 25/32" × T 3/32" (300 mm × 45 mm × 2 mm)		
Model Number for Wide-Stile Exit Device	DH56P3C	DH56P3D	
	For DH5510 Series Rim devices and DH5530 Series SVR devices.		
ANSI Function No.	03	02	10
Cylinder Type	Rim	–	–



DH54P3C DH56P3C

## DH52R Series – Raised-Lip Pull Plates

Trim Designation	Cylinder RL Type Pull Plate	Blank RL Type Pull Plate	Flat Plate (No Raised Lip)
Function	Storeroom (Night Latch)	Dummy	N/A
Operation	Key Retracts Latch Bolt	Pull when dogged (not for use with a fire-rated device)	N/A
Dimensions	L 7 1/16" × W 3" × T 1/8" (196 mm × 76 mm × 3 mm)		
Model Number for Use with Device Type	DH52R2A	DH52R2B	DH52R2D
	For DH5510 & DH5910 Series rim devices and DH5530 & DH5930 Series SVR devices.		



DH52R2A DH52R2B

## Materials & Construction

- Face plates are steel or stainless steel; lever handles are zinc alloy.
- DH52R & DH56P Series trims can retrofit 1 3/4" steel doors prepped for bored locks (ANSI A115.2).
- DH54P & DH56P Series trims are supplied with mounting through-bolts. DH52R Series trims are supplied with sex nuts and bolts (SNB).

## Compatibility Summary

- DH56P / DH54P – For DH5510 Series rim devices and DH5530 Series surface vertical-rod devices; for DH5610S Series rim devices and DH5630S Series surface vertical-rod devices.
- DH52R – For DH5510 & DH5910 Series rim devices and DH5530 & DH5930 Series surface vertical-rod devices.

## Ordering Information: Specify

- Model number (e.g., DH52R2A, DH56P3C).
- Cylinder type (RC – Regular Cylinder, IC – Interchangeable Core, NC – No Cylinder).
- Finish code (US3/605, US32D/630, US28/689).
- Door thickness if greater than 1 3/4".

## Cylinders & Finishes

- Cylinders are not supplied as standard; trims accept cylinders from other manufacturers.
- Cylinder types: RC – Regular Cylinder, IC – Interchangeable Core, NC – No Cylinder.
- Available finishes: US3 (605), US32D (630), US28 (689).

## Selection Guide

- Use DH56P / DH54P Standard Pull Plates where a traditional pull with or without cylinder is required.
- Use DH52R Raised-Lip Pull Plates where extra hand clearance is desired or where existing bored-lock doors are being retrofitted.
- Night-latch function: keyed locking/unlocking from the exterior.
- Dummy function: pull only, no latch control.

## Related Products

- DH58L Series Escutcheon Levers – For applications requiring lever operation with cylinders.
- DH5000 / DH5900 Series Exit Devices – A complete range of rim and surface vertical-rod exit devices.

# LEVERS / EXIT DEVICES

## DH55K and DH53K Series — Round Rose Levers

- Non-handed; easily installed with exit devices.
- Easy-operating lever handle allows convenient one-hand operation.
- Available finishes: US3 (605), US20A (690), US28 (689), and US32D (630).
- Clutch freewheeling design – when the door is locked, the lever rotates freely to prevent excessive force from being applied to the horizontal lever.
- Trim is through-bolted directly to the device chassis for increased security and durability.
- The actuating shaft of this trim is made of hardened steel bar. It fits 1 ¾" (44 mm) doors as standard, and can be used with 2" (51 mm) or 2 ¼" (57 mm) thick doors or shim-mounted exit devices—please specify door thickness when ordering.

### Models and Functions

Operation Options		Key Locks & Unlocks Lever	Key Retracts Latch Bolt	Lever Always Active (No Cylinder)	Pull When Dogged
					
Function		Classroom	Storeroom (Night Latch)	Passage	Dummy
Trim Designation		Cylinder Round Rose Lever	Night Latch Round Rose Lever	Blank Round Rose Lever	Dummy Round Rose Lever
Model Number and Use		DH55K01A	DH55K01C	DH55K01B	DH55K01D
		DH53K01A	DH53K01C	DH53K01B	DH53K01D
For Rim and Surface Vertical-Rod exit devices					
Dimensions	DH55 Series	Rose diameter 3 ⅝" (86 mm). Lever length 4 ¾" (121 mm). Projection 3" (76 mm)			
	DH53 Series	Rose diameter 3 ⅙" (78 mm). Lever length 4 ¾" (121 mm). Projection 3" (76 mm)			
ANSI Function Numbers		08	03	14	02

### Additional Features & Notes

- Rose trim is made of steel or stainless steel; lever handle is made of zinc alloy.
- When keyed operation is required, the trims can accept cylinders from other manufacturers.
- Cylinder is not furnished standard. Specify cylinder type (RC-Regular Cylinder, IC - Interchangeable Core, NC - No Cylinder) when the cylinder is required.
- DH55K Series trims fit and cover cutouts on 1 ¾" steel doors prepped for bored locks with lever handles (per ANSI/BHMA A156.115).

### Typical Applications

- Schools and universities (classroom and corridor doors).
- Hospitals and medical offices.
- Commercial offices and public buildings.
- Retail stores and shopping centers.

### How to Order DH55K or DH53K Series Trims

Example format (varies by device series)

**DH53K-17-A-RC-630**

Trim Model No. \_\_\_\_\_  
 Lever Design \_\_\_\_\_  
 \_\_\_\_\_ BHMA Finish Code  
 \_\_\_\_\_ Cylinder Type  
 \_\_\_\_\_ Function Code

### Function Code:

- A -Classroom
- B-Passage
- C-Storeroom
- D-Dummy

# ACCESSORIES / EXIT DEVICES

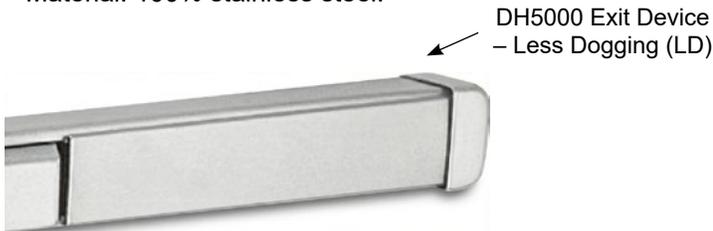
## Fire Latch Bolt / Model FL001

The fire latch bolt is used in pairs with UL-listed fire-rated LBR exit devices. It includes a spring and a stainless steel bolt that installs in the bottom edge of the door, replacing the bottom vertical rods of two SVR exit devices on a pair of doors.

This UL listed fire latch bolt is temperature-actuated: when the fusible link reaches its rated temperature during a fire, the bolt releases from one door leaf and engages the opposite door leaf. Once engaged, the fire latch bolt keeps the doors aligned and held closed throughout the fire event.

### Specifications

- UL listed; furnished with LBR device.
- Faceplate: 1 <sup>25</sup>/<sub>32</sub>" x 1" (45 mm x 25.6 mm).
- Bolt diameter: 27/32" (21.6 mm).
- Latch-bolt length: 3 <sup>5</sup>/<sub>32</sub>" (80 mm).
- Material: 100% stainless steel.



### Less Dogging / LD

Less dogging is available on all DH5000 Series panic exit devices for applications where the dogging function is not required.



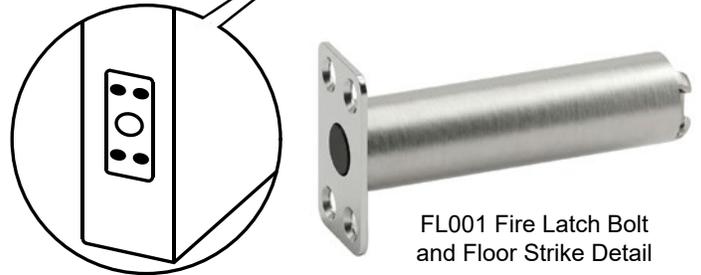
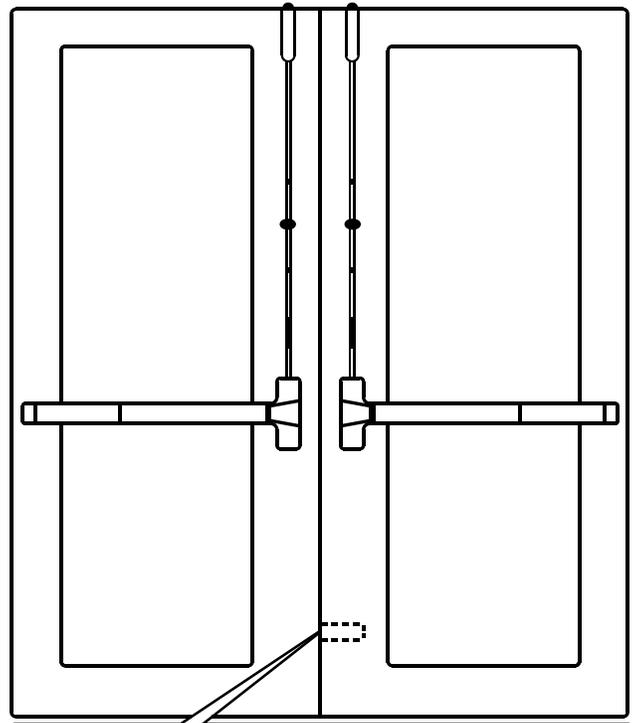
### Cylinder / CD

Cylinder dogging is available on all DH5000 Series panic exit devices as a replacement for standard hex-key dogging. The unit requires a standard 1 <sup>1</sup>/<sub>4</sub>" (32 mm) mortise cylinder with a straight cam.

### Cylinder Options

Cylinders are not furnished with the device or trim and must be specified when required. Refer to the trim pages for the correct cylinder type.

Model FL001 Fire Latch Bolt  
– Typical Double-Door Installation



	Mortise Cylinder	Rim Cylinder
Regular Type	 DH526	 DH426
Interchangeable Core Type	 DH208	 DH308

# DH8000 SERIES / GRADE 1 / EXIT DEVICES

## Heavy-Duty Rim, CVR, SVR and Alarm Exit Devices

DH8000 Series exit devices are heavy-duty units designed for high-traffic applications.

The devices are listed by Underwriters Laboratories (UL in the USA and ULC in Canada) for panic hardware or fire-exit hardware and are certified to ANSI A156.3-2020, Grade 1.

The DH8000 Series is a heavy-duty push-bar exit device available in two body styles: smooth device body and grooved device body. The DH8500 and DH8600 Series use the smooth body style, while the DH8700 and DH8800 Series use the grooved body style. Together, these options provide a wide range of aesthetic choices for architects and building owners.

- All devices are non-handed.
- Slight pressure on the touch bar retracts the latch(es) for immediate exit.
- The auxiliary guarded latch deadlocks the latch bolt automatically when the door is closed.
- High shock-resistant latching mechanism provides protection against vandalism.
- All internal components are made of highly rust-resistant alloys or heavily electroplated steel.
- Anti-fading electroplated or architectural base-material finishes are available on all exposed surfaces.

- An optional dogging mechanism allows hex-key or cylinder operation for positive push-pull door action during peak traffic periods. This dogging feature reduces wear on the latching mechanism and helps extend the service life of the exit device (panic models only).



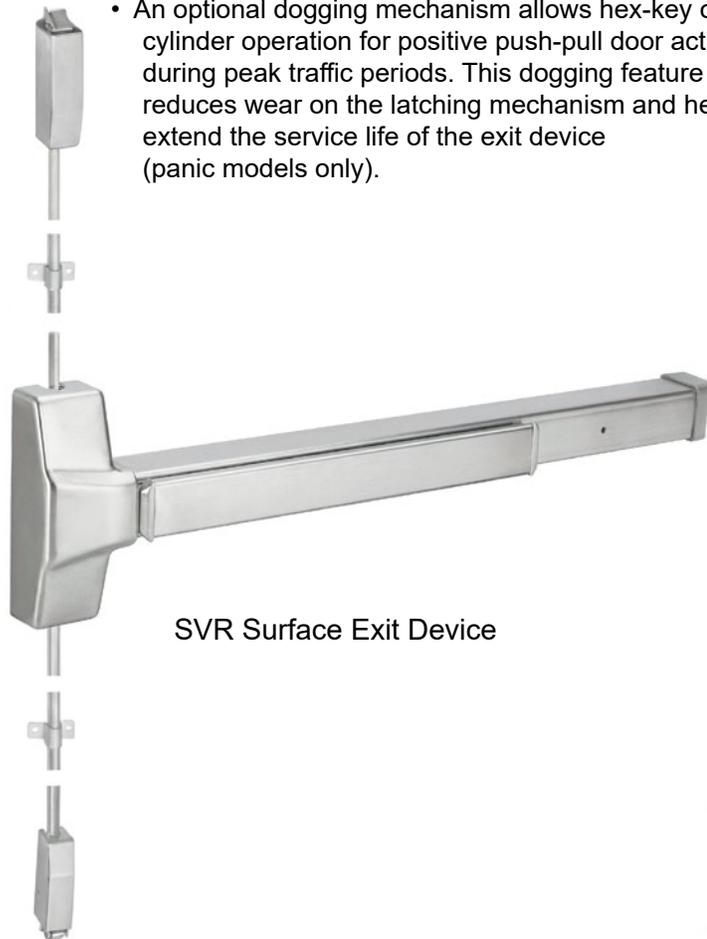
DH8000 Series Exit Device, Smooth Body, with Escutcheon Lever



Rim Exit Device



Mortise Exit Device



SVR Surface Exit Device

## Typical Applications

- Schools and universities
- Hospitals/medical offices
- Commercial buildings
- Industrial facilities
- Public buildings
- Transit centers.

## Body Style Selection Note

- Smooth body style – clean, contemporary look suited for most commercial interiors.
- Grooved body style – adds visual detail and coordinates well with industrial or heavy-duty aesthetics.



Alarm Exit Device

# NARROW-STILE RIM EXIT DEVICES / GRADE 1

**DH8510S / DH8710S — Narrow Panic-Rated Rim Exit Devices**

**DH8510F / DH8710F — Narrow Fire-Rated Rim Exit Devices**



DH8500 / DH8700 Series heavy-duty narrow-stile rim exit devices are designed for contemporary glass, aluminum, wood and metal doors.

## Finishes

Standard finishes: US10B and US32D

## Certifications

- **UL/cUL Listed:** Listed as panic exit hardware or 3-hour fire exit hardware
- **ANSI certified:** ANSI A156.3-2020 Grade 1

## Application

- DH8510S / DH8710S narrow-design rim exit devices are used on aluminum-framed full-glass doors and narrow-stile aluminum doors.
- DH8510F / DH8710F narrow-design rim exit devices are used where a narrow stile look is desired on wide-stile single doors up to 4' x 8' (1219 mm x 2438 mm) or 8' x 8' (2438 mm x 2438 mm) double metal or wood doors with mullions.
- Narrow-stile aluminum storefront doors in retail and commercial buildings.
- Glass-and-aluminum entrance systems in offices, schools and healthcare facilities.
- Narrow-stile metal or wood doors where a slim, contemporary look is required.

## Specifications

Device Length	Short (36"): 34 1/2" (872 mm); Long (48"): 46 5/16" (1176 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	2 1/32" (66 mm)
Latch Bolt	3/4" (19 mm) throw, deadlocking design
Strikes	801 (panic), 802 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 69
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 1/32" (66 mm)

## Selection Guide (panic/fire, dogging options)

- Choose panic-rated devices (DH8510S / DH8710S) for non-fire-rated doors where fast egress is required.
- Choose fire-rated devices (DH8510F / DH8710F) for 3-hour fire doors; note that fire devices have no mechanical dogging (ND).
- Specify cylinder dogging (CD) when key-controlled pushbar hold-back is required, or less dogging (LD) when no dogging function is desired.

## Code & Compliance

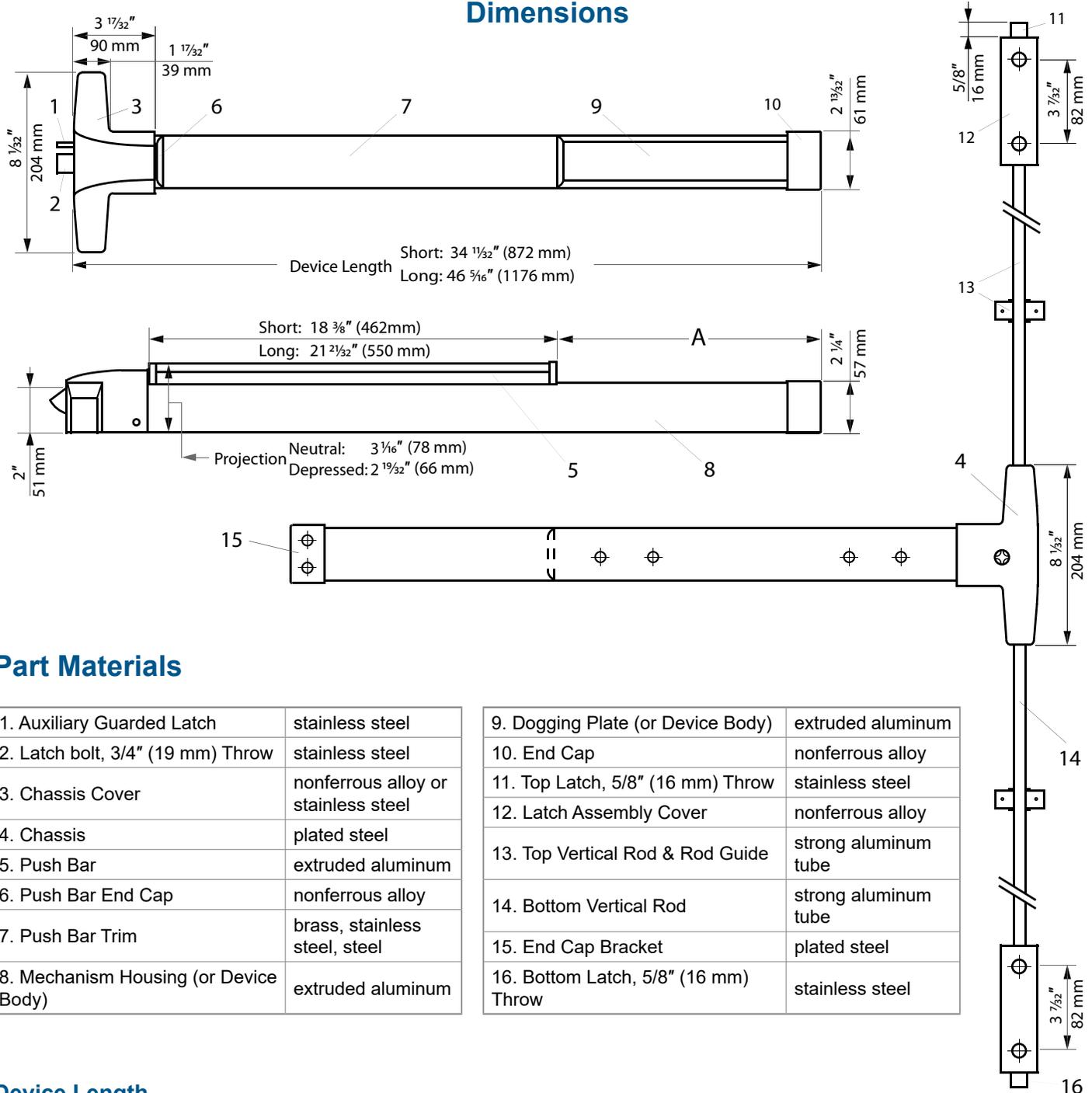
Always verify local building and fire codes to ensure that panic and fire-exit hardware selections meet jurisdictional requirements.

## Ordering Information

When ordering, specify: device model (DH8510 or DH8710), panic-rated or fire-rated, door width, finish code, strike type (801 or 802) and dogging option (RD, CD or LD).

# DIMENSIONS, MATERIALS AND DEVICE LENGTH

## Dimensions



## Part Materials

1. Auxiliary Guarded Latch	stainless steel	9. Dogging Plate (or Device Body)	extruded aluminum
2. Latch bolt, 3/4" (19 mm) Throw	stainless steel	10. End Cap	nonferrous alloy
3. Chassis Cover	nonferrous alloy or stainless steel	11. Top Latch, 5/8" (16 mm) Throw	stainless steel
4. Chassis	plated steel	12. Latch Assembly Cover	nonferrous alloy
5. Push Bar	extruded aluminum	13. Top Vertical Rod & Rod Guide	strong aluminum tube
6. Push Bar End Cap	nonferrous alloy	14. Bottom Vertical Rod	strong aluminum tube
7. Push Bar Trim	brass, stainless steel, steel	15. End Cap Bracket	plated steel
8. Mechanism Housing (or Device Body)	extruded aluminum	16. Bottom Latch, 5/8" (16 mm) Throw	stainless steel

## Device Length

Device lengths are pre-cut for use on 36" (914.4 mm) and 48" (1219.2 mm) wide doors (standard shipping sizes); no additional cutting is required.

Short 36" – Device length is  $34 \frac{1}{2}$ " (872 mm) for 3' doors, with short push bar.

Long 48" – Device length is  $46 \frac{5}{16}$ " (1176 mm) for 4' doors, with long push bar.

For narrow-door installations, cut dimension "A" to the door width minus a minimum of 2" to ensure a proper fit.

Our standard vertical rod set accommodates 7' (2134 mm) panic-exit doors or 8' (2438 mm) fire doors. For doors higher than these standard sizes, specify the door height when ordering; a special longer top rod will be furnished.

# NARROW SVR EXIT DEVICES / GRADE 1



## DH8530S / DH8730S — Narrow Panic-Rated Surface Vertical Rod (SVR) Exit Devices DH8530F / DH8730F — Narrow Fire-Rated Surface Vertical Rod (SVR) Exit Devices

### Certifications

- **UL / cUL Listed:** Panic exit hardware or 3-hour fire-exit hardware
- **ANSI certified:** ANSI A156.3 - 2020 Grade 1

### Application

- Narrow-design panic SVR exit devices are used on aluminum-framed full-glass doors and narrow-stile aluminum doors.
- Narrow-design fire-rated SVR exit devices are used when a wide-stile appearance is desired on double doors up to 8' x 8' (2438 mm x 2438 mm).
- Aluminum-framed full-glass entrance doors for retail and commercial storefronts.
- Narrow-stile aluminum doors in office towers and mixed-use buildings.
- Double doors in schools, healthcare facilities and public buildings where secure two-point latching is required.
- Interior fire-rated corridor doors requiring 3-hour hardware (fire-rated models only).

### Specifications

Device Length	Short (36"): 34 1/2" (872 mm); Long (48"): 46 5/16" (1176 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	2 1/32" (66 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw, can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw, held retracted during door swing.
Strikes	Top: 812 (panic), 822 (fire). Bottom: 815 (panic), 825 (fire).
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 69
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' option available.
Vertical Rods	1/2" (13 mm) diameter tubular rods with rod guides. Top rod is two-piece to accommodate 7' or 8' doors. Bottom rod is one piece, length 31 1/4" (794 mm).
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 1/32" (66 mm)

### Finishes

Standard finishes: US10B and US32D

### Features & Benefits

- Two-point latching (top and bottom) provides enhanced security and door alignment on tall doors.
- Non-handed design simplifies stocking and reduces installation errors.
- Heavy-duty vertical rods and latches are engineered for high-traffic commercial use.
- Compatible with the same trims and cylinders as DH8000 rim devices, simplifying hardware scheduling and inventory.

### Ordering Information & Selection Guide

- When ordering, specify: device model (DH8530 or DH8730), panic-rated (S) or fire-rated (F), door width (36" or 48"), finish, strike type (812/822 or 815/825), and dogging option (RD, CD or LD).
- For fire-rated devices, remember that mechanical dogging (RD) is not available; use CD or LD as required.
- For projects mixing rim and SVR devices, confirm that trims and cylinders are coordinated across all opening types.

# NARROW-DESIGN CVR EXIT DEVICES / GRADE 1



## DH8550S / DH8750S — Narrow Panic-Rated Concealed Vertical Rod Exit Devices DH8550F / DH8750F — Narrow Fire-Rated Concealed Vertical Rod Exit Devices

### Certifications

- **UL / cUL Listed:** Panic exit hardware or 3-hour fire-exit hardware
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

### Application

- Narrow-design panic CVR exit devices are used on aluminum-framed full-glass doors and narrow-stile aluminum doors.
- Narrow-design fire-rated CVR exit devices are used where a wide-stile appearance is desired on paired steel doors up to 8' x 8' (2438 mm x 2438 mm).
- Aluminum-framed full-glass doors in retail and commercial buildings.
- Narrow-stile aluminum doors in offices, schools, and healthcare facilities.
- Paired wide-stile steel doors where a clean, contemporary look is desired.

### Specifications

Device Length	Short (36"): 34 1/32" (872 mm); Long (48"): 46 5/16" (1176 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	2 19/32" (66 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw, can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw, held retracted during door swing.
Strikes	Top: 813 (panic), 823 (fire). Bottom: 815 (panic), 825 (fire).
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 69
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' option available.
Vertical Rods	1/2" (13 mm) diameter tubular rods with rod guides. Top rod is two-piece to accommodate 7' or 8' doors. Bottom rod is one piece, length 31 1/4" (794 mm).
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)

### Finishes

Standard finishes: US10B and US32D

### Selection Guide (panic / fire / dogging)

- Use panic-rated models (DH8550S / DH8750S) for non-fire-rated doors where fast egress is required.
- Use fire-rated models (DH8550F / DH8750F) for 3-hour fire doors; note that fire-rated devices have no mechanical dogging (ND).
- Specify cylinder dogging (CD) when key-controlled hold-back is required, or less dogging (LD) when dogging is not desired.

### Ordering Information & Selection Guide

- When ordering, specify: device model (DH8550 or DH8750), panic-rated (S) or fire-rated (F), door width (36" or 48"), finish code, strike type (813/823 or 815/825), and dogging option (RD, CD or LD).
- For fire-rated devices, remember that mechanical dogging (RD) is not available; use CD or LD as required.
- For projects mixing rim and CVR devices, confirm that trims and cylinders are coordinated across all opening types.

# WIDE-STILE RIM EXIT DEVICES / GRADE 1

**DH8610S / DH8810S — Panic-Rated Rim Exit Devices**

**DH8610F / DH8810F — Fire-Rated Rim Exit Devices**



The DH8600 and DH8800 Series provide a full line of heavy-duty wide-stile panic and fire-rated exit hardware. These devices offer durability and safety, and they meet today's security and access-control requirements.

## Specifications

Device Length	Short (36"): 33 <sup>5</sup> / <sub>32</sub> " (842 mm); Long (48"): 45 <sup>1</sup> / <sub>8</sub> " (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 <sup>1</sup> / <sub>4</sub> " (108 mm)
Latch Bolt	3/4" (19 mm) throw, deadlocking design
Strikes	801 (panic), 802 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 73
Mounting Fasteners	Panic device: machine screws furnished as standard; optional SNB available (order SNB separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard door height is 7'; 8' option available.
Projection	Pushbar neutral: 3 <sup>1</sup> / <sub>16</sub> " (78 mm); pushbar depressed: 2 <sup>19</sup> / <sub>32</sub> " (66 mm)

## Certifications

- **UL / cUL Listed:** Panic exit or 3-hour fire-exit hardware
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

## Finishes

Standard finishes: US10B and US32D

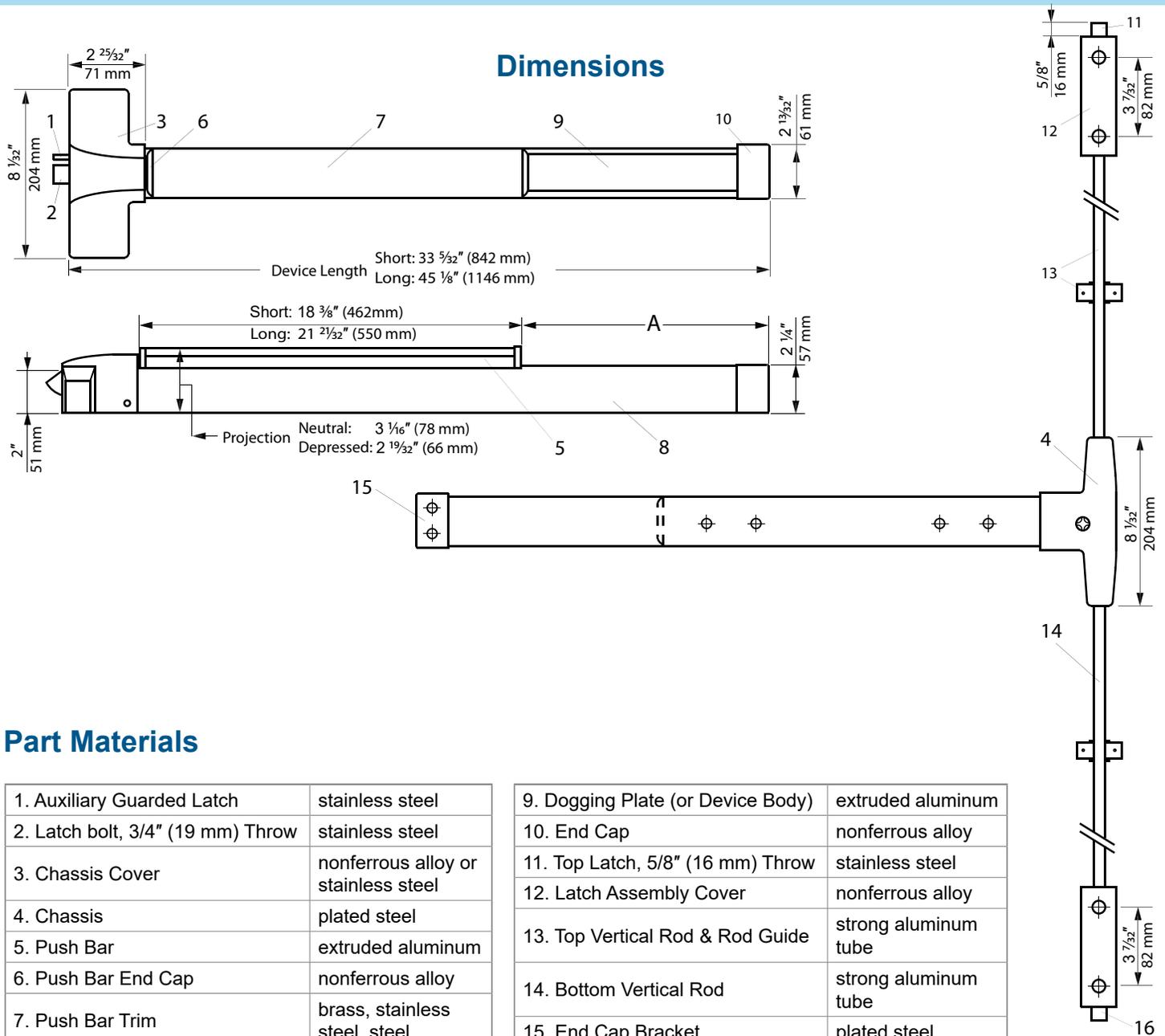
## Applications

- DH8610S / DH8810S panic devices are suitable for all types of single and double doors with mullions.
- DH8610F / DH8810F fire-rated devices are UL-listed for use on fire-labeled single doors up to 4' x 8' (1219 mm x 2438 mm) or double doors up to 8' x 8' (2438 mm x 2438 mm) with mullions.
- Pairs require a mullion; pairs without a mullion typically use SVR/CVR devices.

## Ordering Information & Selection Guide

- When ordering, specify: device model (DH8610 or DH8810), panic-rated (S) or fire-rated (F), door width (36" or 48"), finish code, strike type (801 or 802), and dogging option (RD or ND).
- For fire-rated devices, remember that mechanical dogging (RD) is not available; use ND as required.
- For projects mixing rim and CVR devices, confirm that trims and cylinders are coordinated across all opening types.
- Example: DH8610S-36-RD-US32D-801

# DIMENSIONS, MATERIALS AND DEVICE LENGTH



## Part Materials

1. Auxiliary Guarded Latch	stainless steel	9. Dogging Plate (or Device Body)	extruded aluminum
2. Latch bolt, 3/4" (19 mm) Throw	stainless steel	10. End Cap	nonferrous alloy
3. Chassis Cover	nonferrous alloy or stainless steel	11. Top Latch, 5/8" (16 mm) Throw	stainless steel
4. Chassis	plated steel	12. Latch Assembly Cover	nonferrous alloy
5. Push Bar	extruded aluminum	13. Top Vertical Rod & Rod Guide	strong aluminum tube
6. Push Bar End Cap	nonferrous alloy	14. Bottom Vertical Rod	strong aluminum tube
7. Push Bar Trim	brass, stainless steel, steel	15. End Cap Bracket	plated steel
8. Mechanism Housing (or Device Body)	extruded aluminum	16. Bottom Latch, 5/8" (16 mm) Throw	stainless steel

## Device Length

Device lengths are pre-cut for use on 36" (914.4 mm) and 48" (1219.2 mm) wide doors (standard shipping sizes); no additional cutting is required.

Short 36" – Device length is 33  $\frac{5}{32}$ " (842 mm) for 3' doors, with short push bar.

Long 48" – Device length is 45  $\frac{1}{8}$ " (1146 mm) for 4' doors, with long push bar.

For narrow-door installations, cut dimension "A" to the door width minus a minimum of 2" to ensure a proper fit.

Our standard vertical rod set accommodates 7' (2134 mm) panic-exit doors or 8' (2438 mm) fire doors. For doors higher than these standard sizes, specify the door height when ordering; a special longer top rod will be furnished.

# WIDE MORTISE LOCK EXIT DEVICES / GRADE 1

**DH8620S / DH8820S — Panic-Rated Mortise Lock Exit Devices**

**DH8620F / DH8820F — Fire-Rated Mortise Lock Exit Devices**



## Certifications

- **UL/cUL Listed:** Panic exit or 3-hour fire-exit hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

## Specifications

Device Length	Short (36"): 33 <sup>5</sup> / <sub>32</sub> " (842 mm); Long (48"): 45 <sup>1</sup> / <sub>8</sub> " (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 <sup>1</sup> / <sub>4</sub> " (108 mm)
Latch Bolt	Stainless steel, two-piece, 3/4" (19 mm) throw, with anti-friction insert and auxiliary deadlocking latch
Strikes	Standard strikes: 818 (panic) / 828 (fire) — universal curved lip, non-handed. Optional flat ANSI strikes for pairs with overlapping astragal (7/8" lip): 831 (panic) / 832 (fire)
Dogging	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 73
Mounting Fasteners	Panic device: machine screws furnished as standard; SNB required for wood doors (order separately). Fire device: sex nuts and bolts (SNB) furnished as standard.
Electric Strikes	Compatible with ANSI/BHMA electric strikes (per frame preparation and handing)
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Projection	Pushbar neutral: 3 <sup>1</sup> / <sub>16</sub> " (78 mm); pushbar depressed: 2 <sup>19</sup> / <sub>32</sub> " (66 mm)

## Applications

- DH8620S / DH8820S (Panic-Rated): Suitable for single doors and pairs of doors (use with mullions where required).
- DH8620F / DH8820F (Fire-Rated): For use on UL-listed fire-labeled doors. Fire door applications require self-latching operation; mechanical dogging is not permitted (ND).

## Finishes

Standard finishes: US10B and US32D

## Typical Use Cases

- Schools, offices, retail, and multi-tenant buildings
- High-traffic interior openings and perimeter egress doors (as permitted by door labeling and local codes).

## Key Features

- Grade 1 heavy-duty construction
- Non-handed / field reversible handing
- Stainless steel latchbolt with auxiliary deadlatch
- Panic: RD standard; Fire: ND required
- Compatible with ANSI/BHMA electric strikes (prep dependent).

## Ordering Information

- When ordering a Mortise Lock Exit Device, you must select a trim model and specify the lever design and finish. Examples:  
DH8620S-36-RD-US32D-818  
DH8620F-48-ND-US10B-828

# WIDE SURFACE VERTICAL ROD EXIT DEVICES / GRADE 1



## DH8630S / DH8830S — Panic-Rated Surface Vertical Rod (SVR) Exit Devices

## DH8630F / DH8830F — Fire-Rated Surface Vertical Rod (SVR) Exit Devices

### Certifications

- **UL/cUL Listed:** Panic Exit Hardware or 3-hour Fire Exit Hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

### Finishes

Standard finishes: US10B and US32D

### Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw; held retracted during door swing
Strikes	Top: 812 (panic) / 822 (fire) Bottom: 815 (panic) / 825 (fire)
Dogging	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 73
Mounting Fasteners	Panic-rated: machine screws standard for device; SNB furnished for top & bottom latches. Fire-rated: sex nuts and bolts (SNB) supplied as standard. For wood doors where SNB is required: order SNB separately.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard: 7'; 8' option available (see Door Height note for 10FT models)
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'–8' door heights. Bottom rod: one-piece; length 31 1/4"
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)

### Applications

- DH8630S / DH8830S (Panic-Rated SVR): For single doors and pairs of doors.
- DH8630F / DH8830F (Fire-Rated SVR): For use on UL-listed fire-labeled door openings (where applicable by door labeling and local codes). Fire door applications require self-latching operation; mechanical dogging is not permitted (ND).
- LBR note: These SVR models are not available in Less Bottom Rod (LBR) configuration. If LBR is required, specify an LBR model.

### Typical Use Cases

- Schools, offices, retail, and multi-tenant buildings.
- High-traffic interior openings and perimeter egress doors (as permitted by door labeling and local codes)

### Door Height

- Standard door height: 7'; 8' option available.
- 9' and 10' door height applications require 10FT models.
- 10FT (Panic): 10FT-DH8630S / 10FT-DH8830S
- 10FT (Fire): 10FT-DH8630F / 10FT-DH8830F
- 10FT Fire-rated models must be UL listed/certified as required.

### Highlights

- Grade 1 construction designed for demanding commercial openings.
- SVR configuration supports pairs without a mullion (project dependent).
- Clear panic vs fire-rated configurations for common egress requirements.
- Multiple finishes and device lengths to match building aesthetics.

### Ordering Examples

DH8630S–36–RD–US32D–Top 812/Bottom 815–7'  
DH8630F–36–ND–US10B–Top 822/Bottom 825–8'

RD = hex-key dogging (panic only).

ND = no mechanical dogging (fire required)

# WIDE LESS BOTTOM ROD SVR EXIT DEVICES / GRADE 1

## DHLBR8630S / DHLBR8830S — Panic-Rated (SVR) Exit Devices Less Bottom Rod DHLBR8630F / DHLBR8830F — Fire-Rated SVR Exit Devices Less Bottom Rod



### Certifications

- **Warmock Hersey Listed:** Panic Exit Hardware
- **UL/cUL Listed:** 3-hour Fire Exit Hardware
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

### Compliance Note

These LBR devices have been re-tested and evaluated by nationally recognized testing laboratories. For fire-rated applications, use a UL-listed fire latchbolt to maintain self-latching operation.

### LBR Advantages

- Reduces bottom-rod trip hazard
- Preferred for high-traffic corridors, carts, and house-keeping equipment
- Fire-rated applications must maintain self-latching per code
- Bottom latch eliminated to reduce trip hazard (LBR)
- Confirm strikes/frame prep before ordering

### Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically.
Strikes	Top: 812 (panic) / 822 (fire)
Dogging	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND)
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 73
Mounting Fasteners	Panic-rated: machine screws standard for device; SNB furnished for top & bottom latches. Fire-rated: sex nuts and bolts (SNB) supplied as standard. For wood doors where SNB is required: order SNB separately.
Mounting Height	Device centerline 40" (1016 mm) above finished floor (standard)
Door Opening Height	Standard: 7'; 8' option available (see Door Height note for 10FT models)
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'-8' door heights.
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)

### Applications

- Panic-Rated LBR (DHLBR8630S / DHLBR8830S):  
For single doors and pairs of doors.
- Fire-Rated LBR (DHLBR8630F / DHLBR8830F):  
For use on UL-listed fire-labeled doors (as permitted by door labeling and local codes).  
Fire door applications require self-latching operation; mechanical dogging is not permitted (ND).

### Finishes

Standard finishes: US10B and US32D

### Typical Use Cases

- Hospitals
- Supermarkets
- Corridors/passage doors
- High-traffic openings

### Ordering Examples

- DHLBR8630S-36-RD-US32D-Top 812
- DHLBR8630F-36-ND-US10B-Top 822

RD = hex-key dogging (panic only).

ND = no mechanical dogging (fire required)

# WIDE CONCEALED VERTICAL ROD EXIT DEVICES / GRADE 1

## DH8650S / DH8850S — Panic-Rated Concealed Vertical Rod (CVR) Exit Devices

## DH8650F / DH8850F — Fire-Rated Concealed Vertical Rod (CVR) Exit Devices

### Certifications

- **UL/cUL Listed:** Panic Exit Hardware or 3-hour Fire Exit Hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

### Applications

- Panic-Rated CVR (DH8650S / DH8850S):  
For single doors and pairs of doors
- Fire-Rated CVR (DH8650F / DH8850F):  
For UL-listed fire-labeled doors  
(as permitted by door labeling and local codes).  
Fire door applications require self-latching operation;  
mechanical dogging is not permitted (ND).
- These CVR models are not available in LBR  
(Less Bottom Rod) configuration

### Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw; held retracted during door swing
Strikes	Top: 813 (panic) / 823 (fire) Bottom: 815 (panic) / 825 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND).
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 73
Mounting Fasteners	Panic-rated: Machine screws standard; SNB as required by door type/prep. Fire-rated: SNB as required by door type/prep (supplied standard where applicable).
Mounting Height	Device centerline 40" (1016 mm) standard
Door Opening Height	Standard: 7'; 8' option available
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'–8' door heights. Bottom rod: one-piece; length 31 1/4" (794 mm)
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)



### Door Height

- 7' standard; 8' option available.
- 9' and 10' door heights require 10FT models.
- 10FT (Panic): 10FT-DH8650S / 10FT-DH8850S
- 10FT (Fire): 10FT-DH8650F / 10FT-DH8850F  
(UL listed/certified as required)

### Finishes

Standard finishes: US10B and US32D

### Typical Use Cases

- Hospitals
- Schools
- Retail
- Multi-tenant buildings
- High-traffic egress doors

### Cross-References

- Compatible trims & cylinders: see page \_\_
- Electric strikes: see page \_\_
- SVR wide stile: see page \_\_

### Ordering Examples

- DH8650S-36-RD-US32D-Top 812/Bottom 815-7'
- DH8650F-36-ND-US10B-Top 822/Bottom 825-8'

RD = hex-key dogging (panic only).  
ND = no mechanical dogging (fire required)

# WOOD DOOR CVR EXIT DEVICES / GRADE 1

## DHWD8650S / DHWD8850S — Panic-Rated Wide Wood Door CVR Exit Devices

## DHWD8650F / DHWD8850F — Fire-Rated Wide Wood Door CVR Exit Devices

### Certifications

- **UL/cUL Listed:** Panic Exit Hardware or 3-hour Fire Exit Hardware.
- **ANSI certified:** ANSI A156.3 - 2020, Grade 1

### Applications

- **Panic-Rated CVR (DHWD8650S / DHWD8850S):**  
For wood single doors and pairs of doors (door/frame preparation dependent).
- **Fire-Rated CVR (DHWD8650F / DHWD8850F):**  
For UL-listed fire-labeled doors (as permitted by door labeling and local codes). Fire door applications require self-latching operation; mechanical dogging is not permitted (ND).
- These CVR models are not available in LBR (Less Bottom Rod) configuration

### Specifications

Device Length	Short (36"): 33 5/32" (842 mm); Long (48"): 45 1/8" (1146 mm)
Door Widths	36": for 29" to 36" (736 mm to 914 mm) doors; 48": for 33" to 48" (838 mm to 1219 mm) doors
Minimum Stile Width	4 1/4" (108 mm)
Latch Bolt	Top latch: 5/8" (16 mm) throw; can be dead-locked automatically. Bottom latch: 5/8" (16 mm) throw; held retracted during door swing
Strikes	Top: 813 (panic) / 823 (fire) Bottom: 815 (panic) / 825 (fire)
Dogging Kit	Panic device: hex-key dogging (RD) standard. Fire device: no mechanical dogging (ND).
Dogging Options	(Panic-Rated only) Cylinder dogging (CD) or less dogging (LD)
Dimensions	See page 73
Mounting Fasteners	Panic-rated: Machine screws standard; SNB as required by door type/prep. Fire-rated: SNB as required by door type/prep (supplied standard where applicable).
Mounting Height	Device centerline 40" (1016 mm) standard
Door Opening Height	Standard: 7'; 8' option available
Vertical Rods	1/2" (13 mm) diameter tubular rods with guides. Top rod: two-piece design for 7'–8' door heights. Bottom rod: one-piece; length 31 1/4" (794 mm)
Projection	Pushbar neutral: 3 1/16" (78 mm); pushbar depressed: 2 19/32" (66 mm)



### Door Height

- 7' standard; 8' option available.
- 9' and 10' door heights require 10FT models.

#### For 9' and 10' doors, specify 10FT models:

- 10FT (Panic): 10FT-DHWD8650S / 10FT-DHWD8850S
- 10FT (Fire): 10FT-DHWD8650F / 10FT-DHWD8850F (UL listed/certified as required)

### Reinforced Plates

Includes (2) reinforced plates for wood-door top and bottom reinforcement.

### Finishes

Standard finishes: US10B and US32D

### Typical Use Cases

- Hospitals
- Schools
- Retail
- Multi-tenant buildings
- High-traffic egress doors

### Cross-References

- Compatible trims & cylinders: see page \_\_\_
- Electric strikes: see page \_\_\_
- SVR wide stile: see page \_\_\_

### Ordering Examples

- DHWD8650S–36–RD–US32D–Top 812/Bottom 815–7'
- DHWD8650F–36–ND–US10B–Top 822/Bottom 825–8'

RD = hex-key dogging (panic only).  
ND = no mechanical dogging (fire required)

# ELECTRIFIED ALARM EXIT DEVICES



All DH8000 Series exit devices can be equipped with an alarm option to deter unauthorized egress; when actuated, the device sounds an audible alarm and displays 'EMERGENCY EXIT ONLY / PUSH TO OPEN / ALARM WILL SOUND' on the touchbar.

## Power + Types

The alarm option is powered by a 9-volt battery and is available in two modes:

- **Type A — Monitors: pushbar**  
Alarm sounds when the pushbar is depressed. Recommended for exit-only openings without outside trim.
- **Type B — Monitors: pushbar + latch bolt**  
Alarm sounds when the pushbar is depressed or when the latch is retracted by outside trim.

## Ordering Format + Examples

**Ordering Format:** AL + (base model) + (A or B) + (device length: 36 or 48) + (finish code)

**Examples** (format illustration):

- AL8810SA-36-630 (Example meaning: Panic-Rated Rim Exit Device + Type A Alarm, 36", 630)
- AL8830SB-48-626 (Example meaning: Panic-Rated SVR Exit Device + Type B Alarm, 48", 626)

Note: When a panic-rated device is configured with the alarm option, mechanical dogging is not available.

## Delayed Egress Exit Device

Delayed egress is code-controlled and available only where permitted. Delay time and signaling depend on code requirements and approved hardware configuration. The delayed egress exit device can provide a controlled egress for opening. When the exit device is in the arming stage, it will deny exit to unauthorized persons for 15 - 30 seconds. If depressed for 3 seconds or longer, the device will sound a local and a remote audible alarm. The remote monitor signal will alert the security personnel. The delayed egress device is furnished with a sticker in red letters which states:

**EMERGENCY EXIT ONLY**  
PUSH UNTIL ALARM SOUND  
DOOR CAN BE OPENED IN 15 SECONDS

When the exit device is in the arming mode, turning the key clockwise to the bypass position will allow authorized personnel to exit for maintenance or egress without sounding the alarm. If the exit device is in the arming mode, turn the key switch counter clockwise to the reset position and it will release the device without sounding the alarm for egress and will rearm after 10 seconds.

# SQUARE ESCUTCHEON LEVER TRIMS / EXIT DEVICES

## Square Outside Trims (Exit Device Trims)

### Model 88L and 88E Series — Escutcheon Lever Trims (Square Design)

#### Features

- Non-handed; installs easily with compatible exit devices.
- Smooth lever operation supports convenient one-handed use.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- 88L escutcheons are forged bronze; levers are zinc alloy castings.
- Trim mounts with (4) through-bolts directly to the device chassis for added security and durability.
  - Standard door thickness: 1 3/4" (44 mm).
  - For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted exit devices, specify door thickness when order.
- Anti-vandal design helps protect the trim from damage when the lever is locked/unlocked by key.

#### Models and Functions

Operation Options	Key Locks & Unlocks Lever	Lever Always Active (No Cylinder)	Key Retracts Latch Bolt (Rigid Lever)	Pull Only (Dummy)
<b>Ordering:</b> choose function + finish + cylinder				
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Escutcheon Lever	Dummy Escutcheon Lever
Model Number and Use	88L01A	88L01B	88L01C	88L01D
	88L for Rim, Surface/Concealed Vertical Rod and LBR Exit Devices Use <b>Escutcheon Plate Size: 9 7/16" x 2 15/8" x 13/16" (240 mm x 75 mm x 21 mm)</b>			
	88E01A	88E01B	88E01C	88E01D
	88E for Mortise Lock Exit Devices Use Only <b>Escutcheon Plate Size: 8" x 2 9/16" x 1/2" (203 mm x 65 mm x 12.5 mm)</b>			
ANSI Function No.	08	14	09	02
Cylinder Type	1 1/4" Mortise	–	Rim	–

- Specify function (01A/01B/01C/01D), finish, and cylinder type (DH426/DH526) when required.
- Handing: Non-handed. Specify function and cylinder type when required.
- When keyed trim is required, cylinders may be supplied by other manufacturers per project requirements.
- Cylinder is not furnished as standard. Specify cylinder type when required:
  - Rim cylinder (DH426) or Mortise cylinder (DH526), or Less cylinder (no cylinder).
  - Specify keyway / keying requirements (KA/KD/MK/GMK as applicable).

#### Cylinder Selection (Two Types)



# ROUND ESCUTCHEON LEVER TRIMS / EXIT DEVICES

## Round Outside Trims (Exit Device Trims)

### Model 89L and 89E Series — Escutcheon Lever Trims (Round Design)

#### Features

- Non-handed; installs easily with compatible exit devices.
- Smooth lever operation supports convenient one-handed use.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Freewheeling clutch design helps protect the trim: lever rotates when locked to reduce forced-entry damage.
- Trim mounts with (4) through-bolts directly to the device chassis for added security and durability.
- Standard door thickness: 1 3/4" (44 mm).
- For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted exit devices, specify door thickness when order.
- Anti-vandal design helps protect the trim from damage when the lever is locked/unlocked by key.

#### Models and Functions

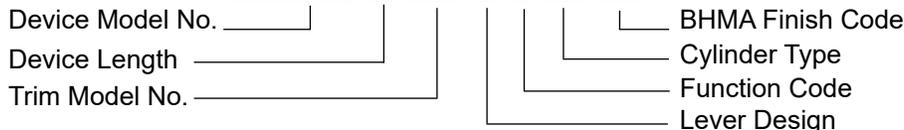
Operation Options	Key Locks & Unlocks Lever	Lever Always Active (No Cylinder)	Key Retracts Latch Bolt (Rigid Lever)	Pull Only (Dummy)
<b>Ordering:</b> choose function + finish + cylinder				
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Escutcheon Lever	Blank Escutcheon Lever	Night Escutcheon Lever	Dummy Escutcheon Lever
Model Number and Use	89L01A	89L01B	89L01C	89L01D
	89L* for Rim, Surface/Concealed Vertical Rod and LBR Exit Devices Use			
	89E01A	89E01B	89E01C	89E01D
	89E* for Mortise Lock Exit Devices Use Only			
Escutcheon Plate Size	<b>Same for 89L* and 89E*: 10 1/16" x 2 15/16" x 15/16" (255 mm x 75 mm x 24 mm)</b>			
ANSI Function No.	08	14	09	02
Cylinder Type	1 1/4" Mortise	—	Rim	—

- To meet keying requirements, cylinders may be supplied by other manufacturers per project specification.
- Cylinder is not furnished as standard. Specify cylinder option when required: Rim cylinder (DH426 or equivalent); Mortise cylinder (DH526 or equivalent); IC (interchangeable core), if applicable; NC (no cylinder).
- 88E or 89E Series trims are for mortise lock exit devices only and are packaged with the mortise lock exit device when ordered (not sold separately).

#### Order Information

Example format (varies by device series)

**DH8820S-36-89E-17-A-RC-626**



#### Function Code:

- A -Classroom
- B-Passage
- C-Storeroom
- D-Dummy

# SQUARE PULL PLATE OUTSIDE TRIMS / EXIT DEVICES

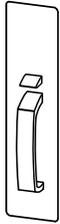
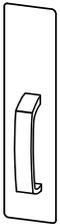
## Square Pull Plate Outside Trims (Exit Device Trims)

### Model 86P Series / Pull Plates — For Wide Stile Exit Devices (Square Design)

#### Features

- Non-handed; installs easily with compatible exit devices.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Trim mounts with (4) through-bolts directly to the device chassis for improved security and durability.
- Standard door thickness: 1 3/4" (44 mm).
- For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted applications, specify door thickness when ordering.

#### Models and Functions

Operation Options <b>Ordering:</b> choose  function + finish + cylinder	Key Locks & Unlocks Thumbpiece 	Lever Always Active (No Cylinder) 	Key Retracts Latch Bolt 	Pull Only (Dummy) 
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Pull Plate with Thumbpiece	Blank Pull Plate with Thumbpiece	Cylinder Pull Plate	Dummy Pull Plate
Model Number and Use	86P-5A	86P-5B	86P-5C	86P-5D
	86P-5* for Rim, Surface Vertical Rod and LBR Exit Devices Use			
	86P-6A	86P-6B	86P-6C	86P-6D
86P-6* for Concealed Vertical Rod Exit Devices Use Only				
Escutcheon Plate Size	14 1/16" x 3" x 3/32" (373 mm x 76 mm x 2 mm)		14" x 3" x 3/32" (355 mm x 76 mm x 2 mm)	
ANSI Function No.	05	15	03	02
Cylinder Type	1 1/4" Mortise	—	Rim	—

- To meet keying requirements, cylinders may be supplied by other manufacturers based on project specifications/availability.
- Cylinder is not furnished as standard. Specify cylinder option when required: Rim cylinder (DH426 or equivalent); Mortise cylinder (DH526 or equivalent); IC (interchangeable core), if applicable; NC (no cylinder).

#### Order Information

Example format (varies by device series)

**DH8810S-36-86P-5A-RC-626**

Device Model No. \_\_\_\_\_  
 Device Length \_\_\_\_\_  
 Trim Model No. \_\_\_\_\_  
 \_\_\_\_\_ BHMA Finish Code  
 \_\_\_\_\_ Cylinder Type  
 \_\_\_\_\_ Function Code

#### Function Code:

- A-Classroom
- B-Passage
- C-Storeroom
- D-Dummy

To order the 86P Series Trims: Specify model series number, trim designation, function code (A, B, C, D), cylinder type and BHMA finish code.

# SQUARE PULL PLATE OUTSIDE TRIMS / EXIT DEVICES

## Square Pull Plate Outside Trims (Exit Device Trims)

### Model 84P and 84E Series / Pull Plates — For Narrow Stile Exit Devices (Square Design)

#### Features

- Non-handed; installs easily with compatible exit devices.
- Finishes available: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Trim mounts with (4) through-bolts directly to the device chassis for improved security and durability.
- Standard door thickness: 1 3/4" (44 mm).
- For 2" (51 mm) and 2 1/4" (57 mm) doors, or shim-mounted applications, specify door thickness when ordering.

#### Models and Functions

Operation Options <b>Ordering:</b> choose  function + finish + cylinder	Key Locks & Unlocks Thumbpiece 	Lever Always Active (No Cylinder) 	Key Retracts Latch Bolt 	Pull Only (Dummy) 
Function	Classroom	Passage	Storeroom (Night Latch)	Dummy
Trim Designation	Cylinder Pull Plate with Thumbpiece	Blank Pull Plate with Thumbpiece	Cylinder Pull Plate	Dummy Pull Plate
Model Number and Use	84P-5A	84P-5B	84P-5C	84P-5D
	84P-5* for Rim, Surface Vertical Rod and LBR Exit Devices Use			
	84P-6A	84P-6B	84P-6C	84P-6D
84P-4* for Concealed Vertical Rod Exit Devices Use Only				
Escutcheon Plate Size	14 11/16" x 1 25/32" x 3/32" (373 mm x 45 mm x 2 mm)		14" x 1 25/32" x 3/32" (355 mm x 45 mm x 2 mm)	
ANSI Function No.	05	15	03	02
Cylinder Type	1 1/4" Mortise	—	Rim	—

- To meet keying requirements, cylinders may be supplied by other manufacturers based on project specifications/availability.
- Cylinder is not furnished as standard. Specify cylinder option when required: Rim cylinder (DH426 or equivalent); Mortise cylinder (DH526 or equivalent); IC (interchangeable core), if applicable; NC (no cylinder).
- 84E Series trims are for mortise lock exit devices only and are not sold separately. When ordering an 84E trim, it must be packaged with a mortise lock exit device (ordered together).

#### Order Information

Example format (varies by device series)

**DH8510S-36-84P-5A-RC-626**

Device Model No. \_\_\_\_\_ BHMA Finish Code \_\_\_\_\_  
 Device Length \_\_\_\_\_  
 Trim Model No. \_\_\_\_\_ Function Code \_\_\_\_\_

#### Function Code:

- A -Classroom
- B-Passage
- C-Storeroom
- D-Dummy

To order the 84P Series Trims: Specify model series number, trim designation, function code (A, B, C, D), cylinder type and BHMA finish code.

## DH7000 Series — Keyed Removable Mullions

Designed for use with DH5000 and DH8000 rim exit devices on pairs of doors (non-fire-rated or fire-rated, as applicable). The keyed top bracket allows quick mullion removal using a rim cylinder key—ideal when a clear opening is needed for carts, gurneys, forklifts, or large equipment.

When reinstalled, the mullion assembly locks back into position. Cylinder requirements vary by application; specify the required cylinder type when ordering.

## Non-Fire Rated Keyed Removable Mullions, Model 7100

For use with panic-rated rim exit devices on non-fire-rated pairs of doors.

### Specifications

Mullion Tube	2" (51 mm) wide × 3" (76 mm) deep; wall thickness 1/8" (3 mm); 11-gauge steel tube
Mullion Size	<ul style="list-style-type: none"> <li>• 7 ft (2134 mm), 8 ft (2438 mm), or 10 ft (3048 mm) (three sizes);</li> <li>• Mullion may be field-cut to size</li> </ul>
Rim Cylinder	Use a 1 1/4" (31.75 mm) solid brass 6-pin rim cylinder, Model 426; or an interchangeable core (IC), Model 308 (sold separately)
Top Bracket	<ul style="list-style-type: none"> <li>• 7100: Steel; keyed top bracket allows the mullion to be removed in seconds.</li> <li>• Mullion can be secured in the top bracket without using the key after installation.</li> </ul>
Bottom Bracket	Steel; secured with four (4) hex bolts and stainless steel anchors
Shims	1/2" (13 mm) and 5/8" (16 mm) shims included
Fasteners	<ul style="list-style-type: none"> <li>• (2) Flat head machine screws, #5/16"-18P × 1-1/2", zinc-plated steel</li> <li>• (4) Flat head machine screws, #5/16"-18P × 5/8", zinc-plated steel</li> <li>• (4) Hex head machine screws, #5/16"-18P × 1-1/2", black steel</li> <li>• (4) Expansion anchors, #5/16"-18P, non-ferrous alloy.</li> </ul>
Strikes	Use two (2) standard rim strikes (801), not included
Finish	Available in gray or black powder coating

## Fire-Rated Keyed Removable Mullions, Model 7200

For use with fire-rated rim exit devices on fire-rated pairs of doors.

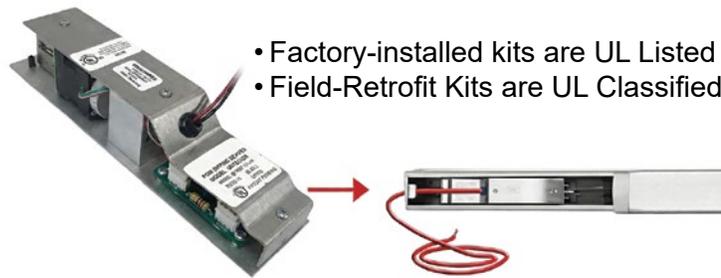
### Specifications

Mullion Tube	2" (51 mm) wide × 3" (76 mm) deep; wall thickness 1/8" (3 mm); 11-gauge steel tube
Mullion Size	<ul style="list-style-type: none"> <li>• 7 ft (2134 mm), or 8 ft (2438 mm)</li> <li>• Mullion may be field-cut to size</li> </ul>
Rim Cylinder	User a 1 1/4" (31.75 mm) solid brass 6-pin rim cylinder, Model 426; or an interchangeable core (IC), Model 308 (sold separately)
Top Bracket	<ul style="list-style-type: none"> <li>• Stainless steel; keyed top bracket allows the mullion to be removed in seconds.</li> <li>• Mullion can be secured in the top bracket without using the key after installation.</li> </ul>
Bottom Bracket	Steel; secured with four (4) hex bolts and stainless steel anchors
Shims	1/2" (13 mm) and 5/8" (16 mm) shims included
Fasteners	<ul style="list-style-type: none"> <li>• (2) Flat head machine screws, #5/16-18 × 1-1/2", stainless steel</li> <li>• (4) Flat head machine screws, #5/16-18 × 5/8", stainless steel</li> <li>• (4) Flat head machine screws, #5/16-18 × 1-1/4", stainless steel</li> <li>• (4) Expansion anchors, #5/16"-18P, steel</li> </ul>
Strikes	Use two (2) sets of mullion strikes (688) and strike hooks (689), sold separately
Finish	Available in gray or black powder coating

# QUIET DUO™ LR100 SERIES / EXIT DEVICES

## 700 mA Dual Latch Retraction / Dogging Kit

### Quiet Duo™ LR100 Series

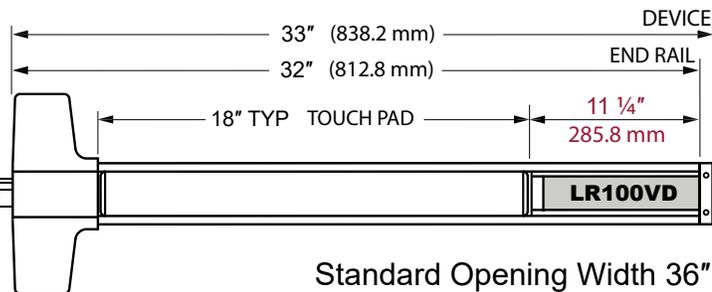


- Factory-installed kits are UL Listed
- Field-Retrofit Kits are UL Classified

For use with 3-hour fire-rated and non-fire-rated mechanical exit devices (as permitted by listing).  
24 VDC: 700 mA inrush / 200 mA continuous.  
Provides simultaneous latch retraction; dogging (hold-open) is model- and application-dependent.

The Quiet Duo™ LR100 Series electric latch retraction kit enables electric access control and (where permitted) dogging of mechanical exit devices. When energized, the motor retracts the latch and pulls the pushpad into the depressed position, enabling momentary or sustained push/pull operation.

Latch retraction can be triggered by an access control system, remote control device, or building automation system. The exit device continues to provide uninhibited egress at all times.



Standard Opening Width 36"

### Field-Installed Retrofit Kit

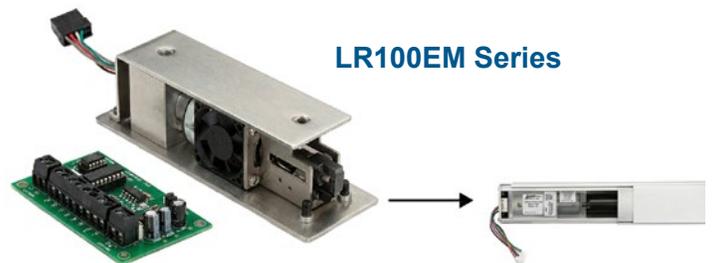
- UL Classified for use with 3-hour fire-rated and non-fire-rated exit devices.

### DH Factory-Installed Kit

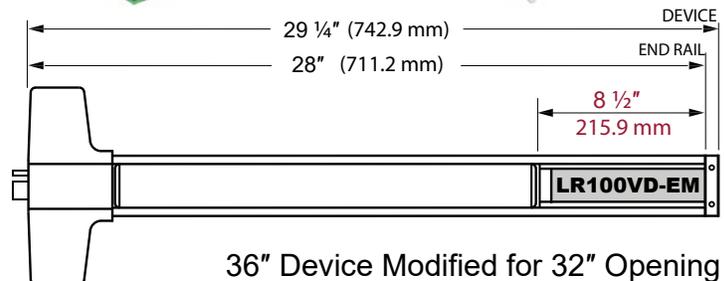
- UL Listed for use with 3-hour fire-rated and non-fire-rated exit devices.
- Distributor ships the exit device to DH for kit installation.

### Features

- 700 mA inrush, 200 mA continuous @ 24 VDC
- For access control and sustained dogging applications
- Simultaneous latch retraction; dogging (pushpad depressed) on compatible devices (model-dependent)
- Electrically depresses the pushpad for quieter push/pull operation
- Automatic re-trigger on designated models if the device does not pull on the first attempt
- Helps avoid costly replacement of existing exit devices
- Lower labor and cost compared with typical retrofit kits
- Low current allows longer wire runs using smaller gauge wire
- No door sequencers required for pairs of manual doors in many applications
- Installs in select Von Duprin non-fire-rated panic devices without removing the device from the door (model-dependent)
- Compatibility varies by device model and fire rating —confirm prior to order



### LR100EM Series



36" Device Modified for 32" Opening

### Available for These Brands

DH	TownSteel	Marshall Best
Von Duprin	Arrow	Sargent
Yale	PHI	SDC
Corbin Russwin	Falcon	Detex
Dor-O-Matic	Cal-Royal	Dorma
Hager	PDQ	Jackson
Adam Rite	Falcon IR	Stanley K2

### How to Specify (Quick Guide)

Select Voltage + Exit Device Brand/Series + Fire Rating + Kit Type (Field Retrofit or Factory Installed) + Options (e.g., REX/ Latch Status).

Example:  
24 VDC / Von Duprin 99 (Non-Fire) / Field Retrofit ELR / REX option

See the Ordering Matrix on the next pages for part numbers.

# LR100™ ORDERING INFORMATION — MAJOR BRANDS & SERIES (1)

Use these tables to select the correct LR100 latch retraction/dogging kit by brand/series and door opening width.

## DIRECT HARDWARE 8000 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100DHK	LR100DH
30"	LR100DHKEM	LR100DHEM
Options		
LRDH1L	Latch Status Kit	
LRDH1R	Pushpad/Dogging Status or REX Status Kit	

## DH 8000 SERIES — MODEL NUMBERS

Standard Stile	Device Type	Narrow Stile
8610/8810	Rim Mount	8510/8710
8630/8830	Surface Vertical Rod	8530/8730
8620/8820	Mortise	—
8650/8850	Concealed Vertical Rod	8550/8750

**Note:** Use this crosswalk to confirm standard vs. narrow-stile model numbers by device type. Narrow-stile availability varies by application—verify before ordering.

## VON DUPRIN 22 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100VDK-22	LR100VD-22
30"	LR100VDK-22-EM	LR100VD-22-EM
Models		
22	Rim Mount	
2227	Surface Vertical Rod	
Options		
LRVD1L	Latch Status Kit for 22 Series	
LRVD2R	REX Status or Pushpad/Dogging Status for 22 Series	

## YALE 7000 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36"	LR100YDK	LR100YD
30"	LR100YDK-EM	LR100YD-EM
42" – 48"	LR100YDK-42/48	LR100YD-42/48
Models		
7100, 7102, 7200	Rim Mount	
7110, 7210	Surface Vertical Rod	
7120, 7220	Concealed Vertical Rod	
Options		
LRY1L	Latch Status Kit	
LRY1R	REX Status Kit	

**Note:** Select the kit by opening width first, then confirm device function and fire rating. Options shown are kit add-ons—confirm compatibility with the exact model.

## VON DUPRIN 98/99 & 33/35 SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100VDK	LR100VD
30"	LR100VDK-EM	LR100VD-EM
Models		
98 / 99	33A / 35A	Rim Mount
9827 / 9927	3327A / 3527A	Surface Vertical Rod
9847 / 9947	3347A / 3547A	Concealed Vertical Rod
9875 / 9975	—	Mortise
9857 / 9957	—	Three Point latching

## CORBIN RUSSWIN • ED SERIES EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36"	LR100CRK	LR100CR
30"	LR100CRK-EM	LR100CR-EM
42" – 48"	LR100CRK 42/48	LR100CR42/48
Models		
ED5200 / ED4200	Rim Mount	
ED5400	Surface Vertical Rod	
ED4800 / ED4800	Concealed Vertical Rod	
Options		
LRCR1L	Latch Status Kit	
LRY1R	REX Status Kit	

**Note:** 42"–48" kits are opening-specific—order only when the device is built for that opening range. Confirm model, trim, and handing prior to release.

## DORMA EXIT DEVICES

Electric Latch Retraction / Dogging Device		
Opening Width	Field-Retrofit Kit	Factory-Installed
36"	LR100DAK	LR100DA
Models		
9300 / F9300	Rim Mount	
9400 / F9400	Surface Vertical Rod	

## HAGER 4500 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100HK	LR100H
30"	LR100HK-EM	LR100H-EM
<b>Models</b>		
4501 - Rim	Rim Mount	
4501 - SVR	Surface Vertical Rod	
<b>Options</b>		
LRH1L	Latch Status Kit	
LRH1R	Pushpad/Dogging Status or REX Status Kit	

## ADAMS RITE EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100ARK	LR100AR
30"	LR100ARK-EM	LR100AR-EM
<b>Models</b>		
8700** / 8800 / 3700	Rim Mount	
8100 / 8200 / 3100	Surface Vertical Rod	
8500 / 8600 / 3600	Concealed Vertical Rod	
<b>Options</b>		
LRARIR	REX Status Kit	

## STANLEY K2 QED SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100K2K	LR100K2
30"	LR100K2K-EM	LR100K2-EM
<b>Models</b>		
QED111	Rim Mount	
QED114	Surface Vertical Rod	
QED124	Concealed Vertical Rod	
<b>Options</b>		
LRK2R	Latch Status & REX Status or Pushpad/Dogging Status Kit	

## ARROW 1000 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100AWK	LR100AW
<b>Models</b>		
S1250	Rim Mount	
S1150	Surface Vertical Rod	
<b>Opening</b>		
36"	LR100AWK-ED910	LR100AW-ED910
<b>Models</b>		
S1250	Rim Mount	

## TOWNSTEEL ED1100 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100TSK	LR100TS
30"	LR100TSKEM	LR100TSEM
<b>Models</b>		
ED1100	Rim Mount	
ED1200	Surface Vertical Rod	
ED1300	Concealed Vertical Rod	
<b>Options</b>		
LRTS1R	REX Status or Pushpad/Dogging Status Kit	
<b>Opening</b>		
36"	LR100TSK-55/56	LR100TS-55/56
<b>Models</b>		
ED5500	Rim Mount	
ED5600	Surface Vertical Rod	
<b>Options</b>		
LRTS2R	REX Status or Pushpad/Dogging Status Kit	
<b>Opening</b>		
36"	LR100TSK-65/67	R100TS-65/67
<b>Models</b>		
ED6500	Rim Mount	
ED6700	Surface Vertical Rod	

## PHI (PRECISION HARDWARE) EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100PDK	LR100PD
<b>Models</b>		
2100 / 2400	Rim Mount	
2200 LBR	Surface Vertical Rod	
2800 LBR / 2600	Concealed Vertical Rod	
5100	Rim Mount	
5200 LBR	Surface Vertical Rod	
<b>Options</b>		
LRP1L	Latch Status Kit for PHI Rim2000 Series	
LRP2L	Concealed Vertical Rod	
LRP1R	REX Status or Pushpad/Dogging Status for PHI 2000	

## TELL MFG. EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100TEK	LR100TE
<b>Models</b>		
9500	Rim Mount	
9400	Surface Vertical Rod	

## FALCON DOR-O-MATIC EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100FAK	LR100FA
30"	LR100FAK-EM	LR100FA-EM
Models		
1790	Rim Mount	
1690	Concealed Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100DMK	LR100DM
Models		
1590	Rim Mount	
1490	Concealed Vertical Rod	

## CAL-ROYAL EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100CAK	LR100CA
Models		
7700 / F7700	Rim Mount	
7760 / F7760	Surface Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100CAK-9800	LR100CA-9800
Models		
GLS9800	Rim Mount	
GLSCVR9800	Concealed Vertical Rod	
Opening	Field-Retrofit Kit	Factory-Installed
30"	LR100CAK-EM	LR100CA-EM
Models		
2200 / F2200 / 9800 / F9800	Rim Mount	
2260 / F2260 / 9860 / F9860	Surface Vertical Rod	

## SDC 6000 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100SDCK	LR100SDC
30"	LR100SDCKEM	LR100ISDEM
Models		
S6100	Rim Mount	
S6200	Surface Vertical Rod	
S6300	Mortise	
S6800	Concealed Vertical Rod	
Models		
LRSDC1L	Latch Status Kit	
LRSDC1R	Pushpad/Dogging Status or REX Status Kit	

## FALCON 24/25 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100FRK	LR100FR
Models		
25-R / F-25-R 24-R / F-24-R	Rim Mount	
25-V / F-25-V 24-V / F-24-V	Surface Vertical Rod	
25-C / F-25-C 24-C / F-24-C	Concealed Vertical Rod	

## MARSHALL BEST EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100MBSK	LR100MBS
30"	LR100MBSK-EM	LR100MBS-EM
Models		
Q1100 / QF1100	Rim Mount	
Q1200 / QF1200	Surface Vertical Rod	

## PDQ EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100PDQK	LR100PDQ
Models		
6200R	Rim Mount	
6200V	Surface Vertical Rod	

## TELL EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100TEK	LR100TE
Models		
9500	Rim Mount	
9400	Surface Vertical Rod	

## JACKSON 2000 SERIES EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100JAK	LR100FR
Models		
2095	Rim Mount	
2085	Concealed Vertical Rod (top latch)	
2086	Concealed Vertical Rod (top latch)	

# LR100™ ORDERING INFORMATION— BRANDS (4) & ACCESSORIES

## DETEX EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100DXK	LR100DX
<b>Models</b>		
10 / 40 Series	Rim Mount	
20 / 50 Series	Surface Vertical Rod	
80 / 81 / 62 / 63 Series	Concealed Vertical Rod	
<b>Options</b>		
LRDX1R	REX Status Kit	

## SARGENT EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100SGK	LR100SG
30"	LR100SGK-EM	LR100SG-EM
<b>Models</b>		
8500 / 8800	Rim Mount	
8700	Surface Vertical Rod	
8400 / 8600	Concealed Vertical Rod	
8300 / 8900	Mortise	
<b>Options</b>		
LRS2R	Latch Status & REX Status or Pushpad/Dogging Status Kit	

## MARKS EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36"	LR100MDK	LR100MD
<b>Models</b>		
M9900	Rim Mount	
M9900VR	Surface Vertical Rod	

## PAMEX EXIT DEVICES

Opening	Field-Retrofit Kit	Factory-Installed
36" – 48"	LR100PAK	LR100PA
30"	LR100PAK-EM	LR100PA-EM
<b>Models</b>		
EF9000	Rim Mount	
EF9000V	Surface Vertical Rod	
EF9020V	Concealed Vertical Rod	

## ACCESSORIES (Applies to all LR100 kits)

### 1) Power Supplies (UL 294)

- **602RF** — 1 Amp Power Supply, UL 294 Listed, for 1–2 exit devices
- **632RF** — 2 Amp Power Supply, UL 294 Listed, for 3–4 exit devices

### 2) Door Sequencing / Control Modules

- **EMC** — 2 Station Automatic Door Sequence; Each EMC provides interface and sequencing for two single or one double automatic door

### 3) Electrified Hinges (Power Transfer Hinges)

- **PTH-4Q** — 4-wire Electric Hinge, 1 Amp max UL 10B
- **PTH-4QDPS** — 4-wire, Electric Hinge 1 Amp max UL 10B. With concealed Door Status Contact
- **PTH-2+4Q** — 6-wire electric hinge (listed as 1-pair 16A inrush + 4A continuous; plus additional pairs @ 12/24V)

### 4) Power Transfer Hinges / Multi-Conductor Transfer Devices

- **PTH-10Q** — Ten (10) Conductor Power Transfer Hinge, 1 Amp @ 12/24V per pair
- **PTM-2AL** — Two (2) Conductor Power Transfer Device: Two (2) 18 Ga. wires 5 Amp @ 12/24V AC/DC, Aluminum Powder Coat, US28 equivalent
- **PTM-2BZ** — Two (2) Conductor Power Transfer Device: Two (2) 18 Ga. wires 5 Amp @ 12/24V AC/DC, Dark Brown Powder Coat, US10B equivalent
- **PTM-10AL** — Ten (10) Conductor Power Transfer Device: Ten (10) 24 Ga. wire 1 Amp @ 12/24V AC/DC, Aluminum Powder Coat, US28 equivalent
- **PTM-10BZ** — Ten (10) Conductor Power Transfer Device: Ten (10) 24 Ga. wire 1 Amp @ 12/24V AC/DC, Dark Brown Powder Coat, US10B equivalent

### 5) Concealed Mortise Power Transfer (Fire Door Accessory)

- **PT-5** — Concealed mortise power transfer device, UL 10B fire door accessory

### 6) Door Loops / Surface Wire Transfer

- **PT-3V** — Stainless steel door loop with surface wire junction

### 7) Signaling / Indicator Components

- **400U-L2** — Two LEDs, specify lens color, standard finish, 1-gang plate
- **400NU-L2** — Two LEDs, specify lens color, standard finish, narrow plate

## Ordering Notes (for Accessories)

- Confirm voltage/current (12/24V; inrush/continuous; amps) and match accessory ratings to all electrified hardware on the opening.
- Verify code/listing needs (e.g., UL 294, UL 10B/10C) and any local requirements.
- Choose the right power transfer method (electric hinge / transfer hinge / mortise transfer / door loop) based on door/frame conditions and aesthetics.
- Confirm conductor count for power + signals (REX, latch status, DPS, LEDs) and add spares if future expansion is likely.
- For paired doors/auto operators, confirm sequencing module compatibility and coordinate with the access control/auto-door integrator.
- For LED indicators, specify lens color and plate type (standard vs narrow) and confirm behavior with the control system.
- Before release, verify handling, trim, and prep—especially for hinges/transfers. When unsure, send full opening details (brand/series, model, width, function, fire rating, voltage, required options).

# NON-LATCHING SWITCH BAR / EXIT DEVICES

## DHMSB550 — Mechanical Switch Bar

Building codes generally require that egress through access-controlled openings does not require prior knowledge or special operation. The DHMSB550 helps meet this requirement by releasing electromagnetic locks for immediate, uninhibited egress. Light pressure actuates an internal mechanical switch to release the maglock—fast, quiet operation.

### Features

- UL Listed (as applicable)
- Alarm shunt
- Magnetic lock release
- Delayed egress trigger
- Access control request-to-exit (REX)
- CCTV or alarm activation
- Burglary-resistant construction



Listed 4J82

Access Control Systems Unit  
Burglary Resistant Electronic  
Locking Mechanism



CSFM Listed  
Exit Door  
Accessories

### Bar Movement: 1/8" Total (0.125", 3.2 mm)

The DHMSB550 requires only 1/8" total movement to trigger activation. This short travel helps deliver fast response and quiet operation.

### Construction / Heavy Duty

The DHMSB550 features a heavy-duty aluminum extrusion with rugged end caps. The all-metal mounting assembly helps prevent malfunction due to door sag, warpage, or misalignment—including in glass-door stile applications.

### Narrow Profile / Minimum Projection

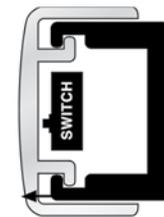
With a narrow profile and only 1-7/8" (47 mm) projection from the door face, DHMSB550 provides generous clearance while maintaining a clean, unobtrusive appearance—ideal for high-profile glass openings.

### Models / Standard Length for 36" Door (DHPT-2U Power Transfer Included)

- DHMSB550V – 628 Aluminum Anodized
- DHMSB550Y – 335 Black Anodized
- DHMSB550C – 605 Polished Brass
- DHMSB550S – 629 Polished Stainless Steel
- DHMSB550U – 630 Brushed Stainless Steel

Only 1/8" movement for quiet operation

1/8" →



1 7/8" →

One of the smallest profile in the industry to provide ample clearance for egress and maintain superior aesthetics of high profile openings.

### When Ordering How to Specify?

DHMSB550 + Finish (BHMA) + Door Width (36/42/48) + Mounting (Standard/Glass) + Options (Shim Kit, Power Transfer)

Contacts:	(2) SPDT, 5A rated contacts
Bars for Wide Doors:	42" for 42" (1,067 mm) doors; 48" for 48" (1,219 mm) doors; bars may be field-cut by installer
Rim Cylinder	User a 1 1/4" (31.75 mm) solid brass 6-pin rim cylinder, Model 426; or an interchangeable core (IC), Model 308 (sold separately)
Glass Mounting Kit:	DH500GL (for full-glass/Herculite doors with stiles; includes adhesive and (2) mounting blocks)
Shim Kit:	DH500SK (raises bar from door surface; recommended for wood or hollow-metal doors)

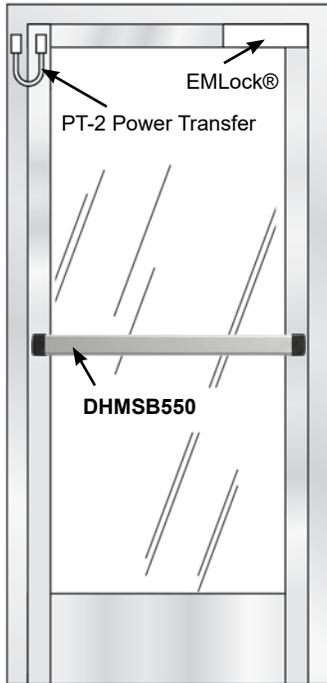
# NON-LATCHING SWITCH BAR INSTALLATION / EXIT DEVICES

## DHMSB550 — Mechanical Switch Bar

Choose Your Mounting Method: Standard Installation or GL Glass-Mount Kit Installation

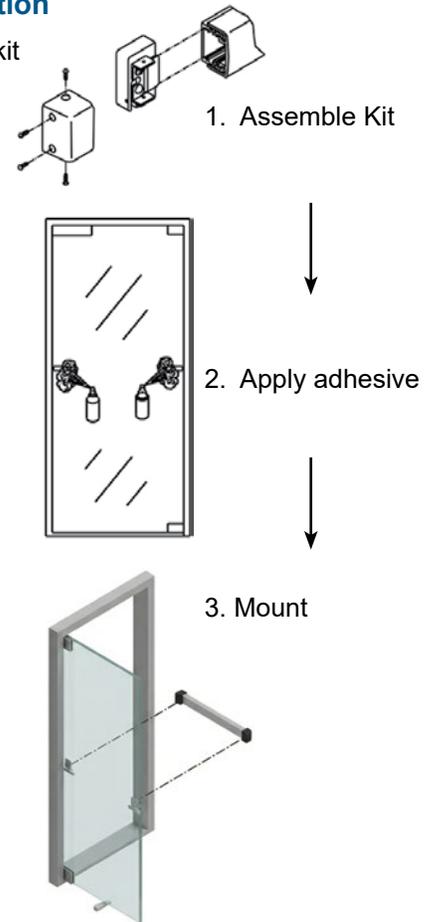
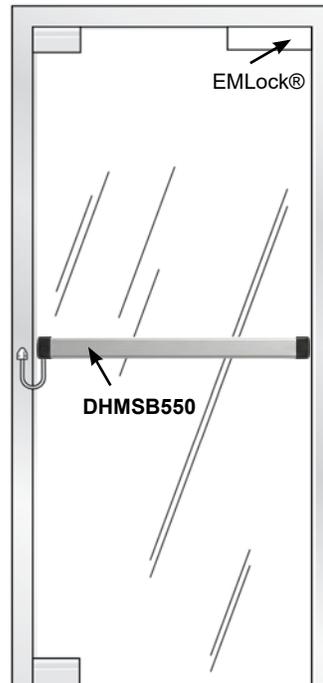
### Standard Installation

with standard mounting hardware for metal- or wood-framed doors



### GL Glass-Mount Kit Installation

Use the DH500GL glass-mount kit for a clean, secure installation



### Electrical Specifications

Contacts	Standard	SPDT, 5 Amp @ 30VDC
	Optional	Two, SPDT, 5 Amp @ 30VDC

### Mechanical Specifications

Height	2.375" (60.3 mm)
Projection (Depth)	1.875" (47.6 mm)
Door Width	42" (1,067 mm)
	48" (1,219 mm)

Bars may be field-cut (verify minimum length before cutting)

### Power Transfer Accessories

Stainless-steel flex conduit provides a protected wiring path from the door to the frame—ideal for electrified locks and access control.



DHPT-2U

Stainless steel flex conduit (included with bar)



DHPT-3V

Stainless steel flex conduit with surface aluminum wire junction

# NON-LATCHING PRESSURE-SENSE BAR / EXIT DEVICES

## Sure Exit® DHPSB560 REX — Pressure-Sense Bar

Sure Exit® DHPSB560 REX is a non-latching pressure-sense bar designed to release electromagnetic locks for immediate, uninhibited egress on access-controlled openings.

When light pressure is applied to the bar, either of two redundant solid-state pressure sensors is activated, triggering the electronics to instantly release the electromagnetic lock(s).

### Stable and Reliable Pressure-Sense Technology

- Magnetic Lock Release
- Access Control Request-to-Exit (REX)
- Delayed-Egress Trigger
- Alarm Shunt
- CCTV / Alarm Activation



### Features

- **Tri-FailSafe.** A third redundant microswitch provides emergency release if both sensors or the electronics fail. The emergency release does not require prior knowledge to locate or use, helping maintain egress even during service conditions.
- **No Moving Parts** — Quick and Quiet Operation. Solid-state pressure-sense technology minimizes wear and provides fast, quiet activation.
- **Temperature Tolerant.** Operates from 0°F to 150°F and tolerates sudden temperature changes.
- **Human Touch Not Required.** Activation can be accomplished while wearing gloves, using a hip through a coat, or with objects such as a briefcase—helpful for users who cannot reliably touch a small switch.
- **No Sensor Calibration Required.** Stable pressure sensing typically does not require adjustment or tuning. Where desired, pressure sensitivity can be increased (up to 15 lb) to help inhibit tampering for higher-security applications.
- **Heavy-Duty Construction.** Heavy-duty aluminum extrusion with rugged end caps and an all-metal mounting assembly. Rigid construction helps prevent malfunction due to door sag, warpage, or misaligned glass door stiles.
- **Narrow, Low-Profile Design.** Narrow profile with minimum projection of only 1.875" (47 mm), ideal for aesthetically superior glass openings.
- **Two Outputs.** Two dry contact outputs support lock release, REX, alarm shunt, CCTV, or alarm activation functions (application dependent).
- **Armored Power Loop.** Includes an 18" stainless-steel flex conduit; PT-2 enables protected wiring from the door to the frame.
- **10 ft Cable Included.** Includes an 8-conductor cable.
- **Easy Installation and Service.** Wiring plugs into the PCB after the bar is mounted. The extruded cover slides on after connections are made, and can be removed for service without taking the bar off the door.

### How to Specify (Ordering)

DHPSB560 REX | Door type | Opening width | Function(s) | Power transfer | Signage



CSFM Listed  
Exit Door  
Accessories



Listed 4J82  
Access Control Systems Unit  
Burglery Resistant Electronic  
Locking Mechanism



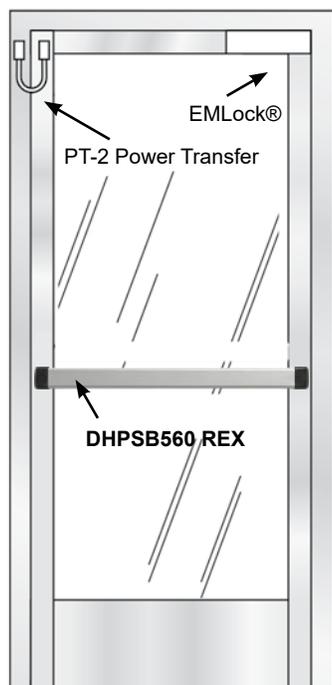
Protected by the U.S.  
Patent: 5,969,440

## Sure Exit® DHPSB560 REX — Pressure-Sense Bar

Choose Your Mounting Method: Standard Installation or GL Glass-Mount Kit Installation

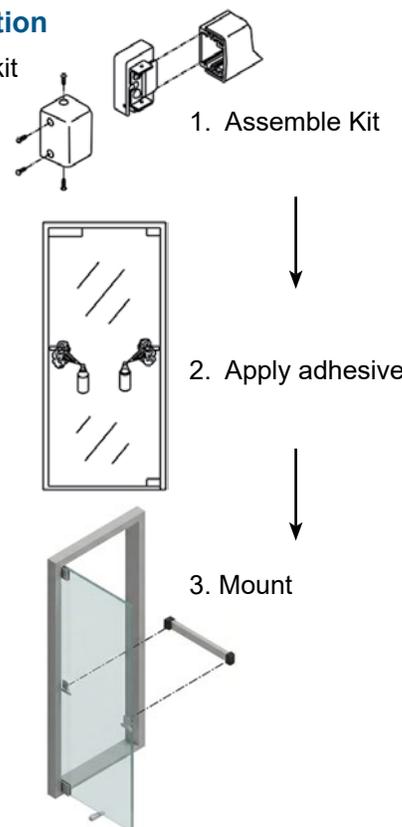
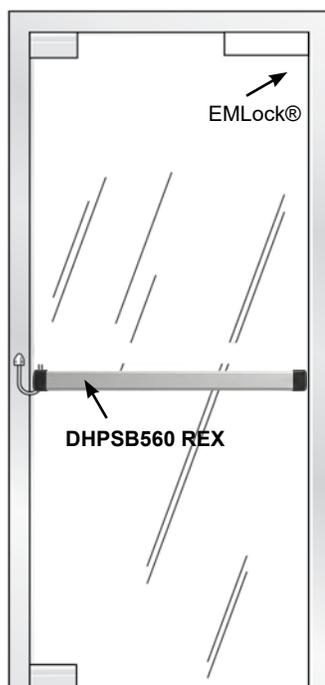
### Standard Installation

with standard mounting hardware for metal- or wood-framed doors



### GL Glass-Mount Kit Installation

Use the DH500GL glass-mount kit for a clean, secure installation



### Finishes

- V** 628 Clear Anodized Aluminum (standard)
- S** 629 Bright Stainless Steel
- U** 630 Brushed Stainless Steel
- C** 605 Bright Brass
- Y** 335 Black Anodized Aluminum

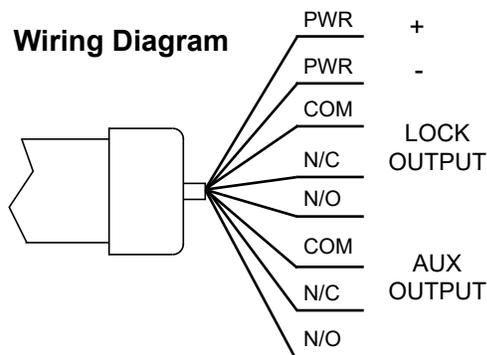
### Options

- DH500GL-KIT** Glass-mount kit for full-glass (Herculite-style) doors with stiles; includes (2) mounting blocks and adhesive
- DH500GL-MB** Additional mounting blocks (set of 2)
- DH500-SK** Shim kit to increase bar stand-off; recommended for wood or hollow-metal doors
- DHPT-3V** Power transfer loop with surface aluminum wire junction
- 42** For 42" (1,067 mm) door width
- 48** For 48" (1,219 mm) door width

Note: Bars may be field-cut

### Specifications

- Height** 2.375" (60.3 mm)
- Depth** 1.875" (47.6 mm) Projection
- Width** 36" (914 mm) standard; 42" (1,067 mm); 48" (1,219 mm)
- Input Voltage** 12/24 VDC, voltage-sensing (no field adjustment required)
- Current** 20 mA standby; 115 mA active
- Outputs** (2) SPDT dry contacts, 3 A @ 28 VDC
- Operating Temp** 0° to 150°F (-18° to 65°C)
- Activation Force**
  - Factory Set: 5 lb (2.2 kg)
  - Field Adjustable: up to 15 lb (6.8 kg) max



# LOW-ENERGY AUTOMATIC OPERATORS

## QUAD 28K®

Non-handed, patented automatic swing-door operator design for left- or right-hand swing doors.

### Key Features

Designed for power-assist and low-energy power-operated door applications.

Maximum door width: 48" (1220 mm); maximum door weight: 230 lb (104 kg).



## QUAD 4000

Heavy-Duty & Outdoor Applications.

Designed for demanding environments and heavier-duty door applications.

### Key Features



## QUAD 7000

Indoor Applications.

Engineered for smooth operation in interior openings.

### Key Features

Designed for power-assist and low-energy power-operated door applications.

Maximum door width: 48" (1220 mm); maximum door weight: 230 lb (104 kg).



# HOLLOW METAL DOORS & FRAMES

## DHHM-DF — Hollow Metal Door & Frame

## DHHM-D — Hollow Metal Door

## DHHM-F — Hollow Metal Frame

### Gauge and Construction

- 18 gauge (standard)
- Optional gauges: 14, 16, and 20 gauge

### Core Options

- Polystyrene core (standard)
- Optional cores: honeycomb, fiberboard, urethane

### Steel Type and Coating Options

- Cold-rolled steel (standard)
- Optional materials/coatings:
  - A40 and A60 galvanized
  - G90 galvanized

### Finish Options

- Gray primer (standard)
- Optional finishes: unprimed (galvanized), or factory prefinished in thousands of colors

### Face Style and Cutout Options

- Flush face (standard)
- Available options: vision lite kits, louvers, panel designs, including wood-grain styles

### Design and Reinforcement Features

- Exclusive door design includes: mechanically interlocking pan-and-lid construction
- Hinge reinforcement: 7-gauge hinge reinforcements, with an extra-long top hinge reinforcement (standard)

### Hardware Prep and Fire Rating

- Closer reinforcement: standard (available with flush top)
- Fire rating: up to 3-hour fire rating available



### Door Sizes

2'0 x 6'8	2'6 x 7'0
2'4 x 6'8	2'8 x 7'0
2'6 x 6'8	2'10 x 7'0
2'8 x 6'8	3'0 x 7'0
2'10 x 6'8	3'4 x 7'0
3'4 x 6'8	3'6 x 7'0
3'6 x 6'8	3'8 x 7.0
3'8 x 6'8	4'0 x 7'0
4'0 x 6'8	3'0 x 8'0
2'0 x 7'0	4'0 x 8'0
2'4 x 7'0	3'0 x 9'0

### Frame Sizes

4 3/4"
5 3/4"
5 7/8"
6 3/4"
7 1/8"
7 3/4"
8 1/4"
8 3/4"

**Throat size** is 1" smaller than the frame size

### Ordering Information

- Door size (W x H), hand, swing
- Gauge and core
- Steel/coating (CRS / A40/A60 / G90)
- Finish (primer / prefinished color)
- Cutouts (vision lite / louver)
- Fire rating requirement (if any)
- Frame throat size / wall condition