

Product Catalog



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and more open world

Adams Rite Product Catalog 2025

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Adams Rite MS® Prep

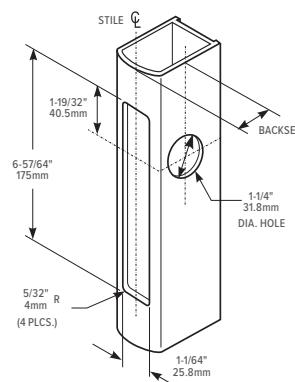
What is the MS® Prep?

The MS® Prep is the industry standard lock prep and dominant locking solution for aluminum openings. The MS Prep is identified by the 6-7/8" x 1" cut-out with radius corners and is designed to fit Adams Rite MS deadlocks and deadlatches.

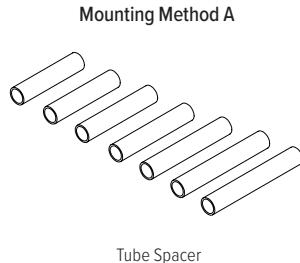
Look for the **MS® Prep** symbol throughout this catalog to help identify these products.

When ordering and installing an Adams Rite lockset, here is some important information to keep in mind:

Stile Prep for Aluminum
Indicates lockbody cutout and cylinder hole.



Mounting Methods
How to mount the lockbody within the Prep.



Tube Spacers



Mounting Tab

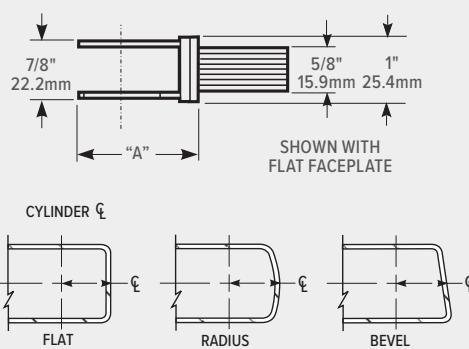


Mounting Bridge

Backset

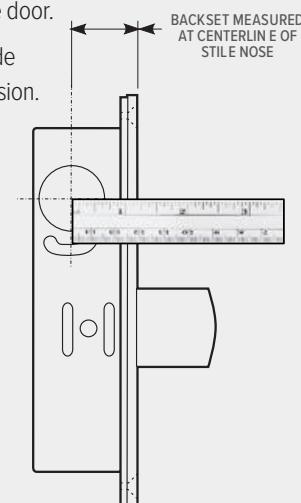
It's important to know the backset used on the stile as this will change the overall depth of the desired lock body. For example, if the backset on the opening is 1-1/8", you will need to ensure that the desired lock body has a matching 1-1/8" backset in order to align properly with the prep on the door.

Backset is the measured distance from the centerline of the cylinder hole to the outside of the stile wall or nose. Use a tape measure or ruler to measure this horizontal dimension.



Backset is engraved on the side of MS1850 lock body.

BACKSET	"A"
7/8"	1-9/16"
22mm	34.7mm
31/32"	1-5/8"
24.6mm	41.3mm
1-1/8"	1-25/32"
28.6mm	45.2mm
1-1/2"	2-1/4"
38.1mm	57.2mm



Mechanical to Electrical Upgrade Path

How does Adams Rite fit in?

As an architectural brand, Adams Rite offers an effective and affordable mechanical to electrical upgrade path.

Since the launch of the MS1850, Adams Rite has taken this foundational MS® door prep and designed a modular portfolio of mechanical and electromechanical products that provide easy installation and offer simple retrofit solutions for aluminum applications to easily enhance and improve the safety and security of your opening.



A Range of Upgrade Options*

Deadlocks & Deadlatches: A progression of mechanical to electrified to wireless.

- Backward compatibility allows for the replacement of a mechanical lock with a latch that builds off of the base MS prep
- Electrified deadlatches can be the simplest way to electrify an opening and provide flexible traffic control. They also can be paired in conjunction with an auto-operator.
- Provide compliance to ADA and Single Motion to Egress (ANSI/BHMA A156.41) code requirements when paired with compatible Adams Rite lever or paddle

Electric Strikes: Compatible with Adams Rite deadlocks, exit devices and power supplies for an easy electrified upgrade path.

- Quickly electrifies an opening and can be tied into an existing access control system in conjunction with a card reader or keypad
- Address preload conditions with the preload-capable 7400 Series

Trim: Integrates with existing mechanical Adams Rite deadlocks and deadlatches.

- Electrified trim is great for applications where reusing the existing mechanical lockset is preferred
- Battery operated products provide an simple upgrade when pulling wires is cost prohibitive but access control is required



Exit Devices: Offering access control and code-compliant accessibility; Secure any single or double door application

- Pair with existing trim and an electric strike
- Electrification options include solenoid Electrified Latching (EL & LR) and Motorized Latch Retraction (MLR)

*Functionality and code compliance must always be considered with upgrades.
Always consult with your local AHJ for more information.



Dedolocks



1830 Series

Swing Bolt Bottom Rail Deadlock



Aluminium



Glass



Swinging Door

1830 Bottom Rail Deadlock provides bottom rail locking in ultra-narrow stile aluminum or tempered glass doors. Tamper resistant with an armored faceplate, it protects with a minimum threshold strike opening.



Function

For bottom rail locking of ultra-narrow stile or tempered glass doors whose bottom rail (shoe) is too shallow for the MS1861 Bottom Rail Deadbolt. Mechanism is similar to the MS1850S Deadlock, but with the bolt size reduced. This keeps the threshold strike opening to a practical minimum, avoiding collection of debris or snagging on high-heeled shoes. Armored faceplate protects cylinder setscrews from tampering and keeps them from loosening. Not designed for wood door applications.

Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumturn, available separately. Lock accepts cylinder from either or both sides.

Features

Cylinder Height

31/32" [24.6 mm] and 1-1/8" [28.6 mm] only.

Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth] where depth varies with cylinder height. Steel with corrosion-resistant plating.

Bolt

15/32" x 5/8" x 2-1/8" [11.9 mm x 15.9 mm x 54.0 mm] with 5/8" [15.9 mm] throw. Six-ply laminated steel with eight plies within case. Center ply has alumina-ceramic core to deter hacksaw attack.

Strike

See back page for dimensions of strike slot which can be cut in metal thresholds. 4006 Strike, shown, available separately with stainless steel trim plate and plastic box.

Standard Package

Individually boxed with mounting screws. Cylinder and/or thumbturn available separately.

Shipping weight

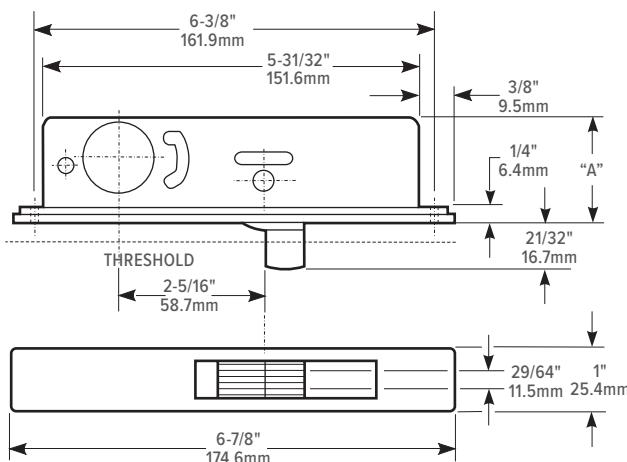
1-1/2 lbs [0.68 kg]

Options

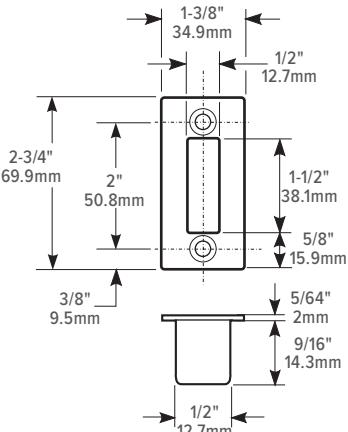
- 4006 Strike, cylinder, thumbturn available separately
- Available in choice of 313 Dark bronze anodized, 628 Clear anodized

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

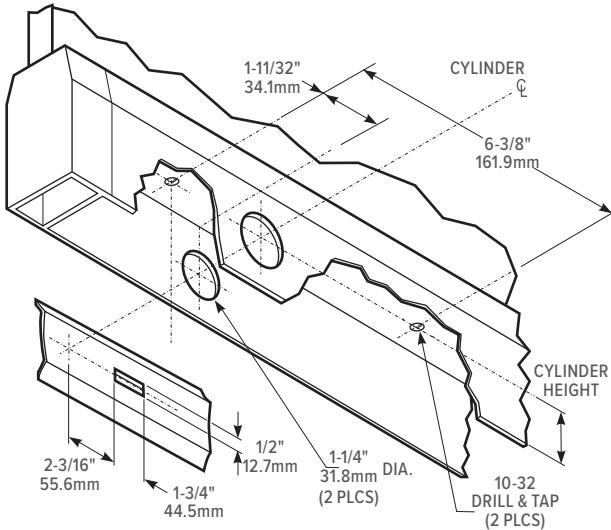
Dimensions



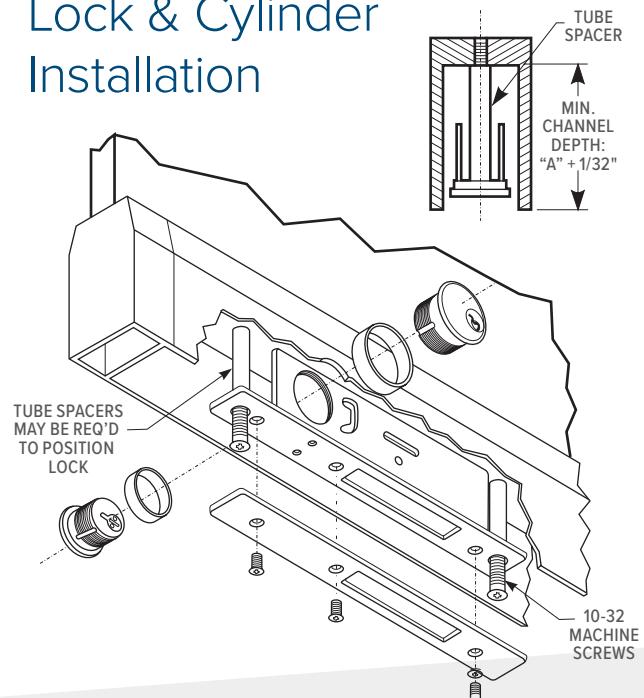
4006 Strike Dimensions



Stile & Threshold Preparation



Lock & Cylinder Installation



How to Order & Related Products

1830 Bottom Rail Deadlock (Swingbolt): Specify quantity and the following information. Order related products separately.

PRODUCT NO.	DASH NO. (SPECIFY FOR CYLINDER HEIGHT AND LOCK DEPTH)	FINISH
1830	-02	-628
	-02 Cylinder Height 31/32" Dim. "A" 1-5/8"	313 Dark Bronze Anodized
	-03 Cylinder Height 1-1/8" Dim. "A" 1-25/32"	628 Clear Anodized

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn; MS4043 Cylinder Guard	4006 strike



MS1837 Series

MS® Two-Point Deadlock

Maximum security for wood door pairs is provided with the MS1837 Two-Point Deadlock. A single turn drops a bolt into the threshold and pivots the MS bolt.

Function

Maximum security for wood door pairs is provided by the MS1837 deadlock with a single turn of a key. Simultaneously dropping a stainless steel hexbolt into the threshold and pivoting the massive MS bolt into the opposite leaf, the MS1837 eliminates inconvenient and sometimes forgotten flushbolts in the inactive leaf.

Operation

360° turn of key or thumbturn projects counterbalanced bolt into opposite door and drops bolt into threshold. Key can be removed only when bolts are in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



Concealed vertical rod not shown

Features

Cylinder Backset

1-1/2" [38.1 mm] only.

Cylinder Height

36" [914.4 mm] standard. Other cylinder heights available on special order, specify exact height from bottom of door to cylinder center. Maximum cylinder height 65" [1651 mm].

Case

Measures 1" x 6" x 2-3/16" [25.4 mm x 152.4 mm x 55.6 mm]. Steel with corrosion-resistant plate.

Pivoted Bolt

5/8" x 1-3/4" x 2-7/8" [15.9 mm x 44.5 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw. Eight-ply laminated steel with alumina-ceramic core to deter hacksaw attack.

Threshold Bolt

Hexagonal 3/8" [9.5 mm], flat to flat. Stainless steel.

Armored Faceplate

Flat, two-piece plate extends to bottom of door.

Strike

For MS bolt, a 4001-011 Strike Plate with dust box is furnished. Threshold bolt strike can be 1/2" [12.7 mm] diameter hole in metal threshold or, if threshold is wood, 4005 Strike is available separately.

Standard Package

MS lock individually boxed with mounting screws. Hexbolt and rod packed separately with face extension plate, screws, bottom bolt guide, and attachment pin. Cylinder and/or thumbturn available separately.

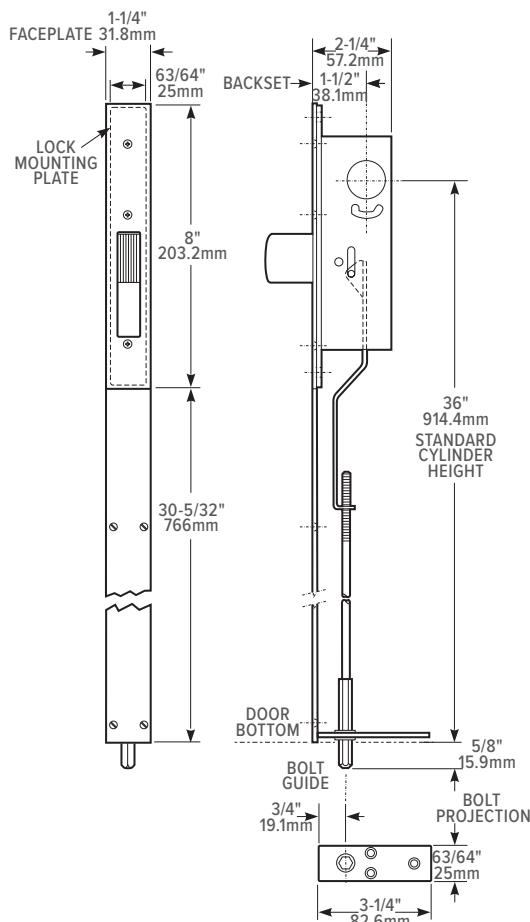
Shipping weight

3 lbs [1.36 kg]

Options

- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized, US3 (605) Bright brass, US26D (626) Satin chrome

Dimensions



Installation

Install adaptor arm in lock from rear with bolt retracted as shown.

Drive pin through slots in lock side plates, passing through hole in the adaptor arm.

#12 X 1-1/4" FLAT HEAD WOOD SCREW

#8-32 X 1/4" FLAT HEAD MACHINES SCREWS (3)

#12 X 3" FLAT HEAD WOOD SCREW

#6 X 3/4" FLAT HEAD WOOD SCREWS (6)

NOSE OF DOOR

DOOR Q

BOLT GUIDE

#8 X 1" FLAT HEAD WOOD SCREWS (3)

1/2" 12.7mm DIA.

How to Order & Related Products

MS1837 Two Point Deadlock Specify quantity and the following information. Order related products separately.

PRODUCT NO.	FACEPLATE
MS1837	-313
	313 Dark Bronze Anodized
	335 Black Anodized
	605 Bright Brass
	626 Satin Chrome
	628 Clear Anodized

If cylinder height other than 36" is required, specify exact height from bottom of door to cylinder center.

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn MS4043 cylinder guard	4005 Strike for wooden threshold



MS1847 Series

MS® Deadlock/Deadlatch

The MS1847 Deadlock/Latch for ultra-narrow stile aluminum sliding doors features a self-protecting bolt with adjustable bolt projection.

Function

A compact lock designed to fit within very narrow sliding door stiles without compromising the high degree of security that these doors need. The sturdy stainless steel bolt has two important features not usually found in sliding door hardware. First, it is adjustable: a full 3/16" [4.8 mm] lengthening or shortening of bolt projection is possible by turning an exposed screw in the face of the lock. This can compensate for considerable misalignment between door and jamb. Second, the bolt is self-protecting: if the door is closed with the bolt in the locked position, the bolt will retract immediately upon contact with the jamb, thus preventing damage or accidental lockout.



Operation

Cylinder pulls are available separately for keyed operation. Three hub slot positions allow installation even where jamb and stile design provides severely limited turn clearance.

Features

Case

Measures 1/2" x 3-3/16" x 1-1/8" [12.7 mm x 80.97 mm x 28.6 mm].
Stainless steel.

Bolt

Three-ply laminated stainless steel. Designed to withstand approximately one-half ton of either horizontal or vertical force. Anti-lift bolt stops both door-from-jamb pry bar attacks and attempts to lift the door from its track.

Faceplate

Rectangular face or full radiused ends (see how-to-order table on back of page for dash numbers).

Latch Version

The MS1847-11 and MS1847-13 feature the same stainless steel hookbolt, but the bolt is spring-loaded for automatic latching. All dimensions and available accessories for the MS1847 Deadlocks also apply to MS1847 Deadlatches.

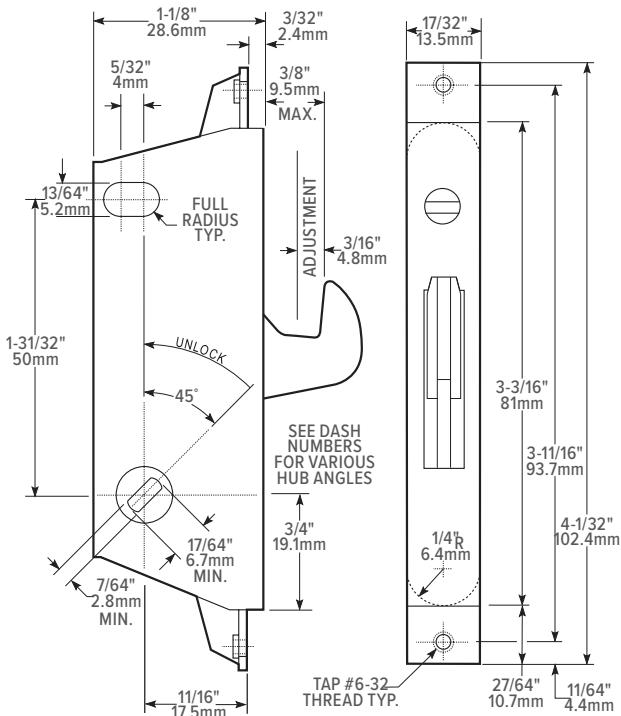
Standard Package

Case-packed with mounting screws. Turn and cylinder pull available separately.

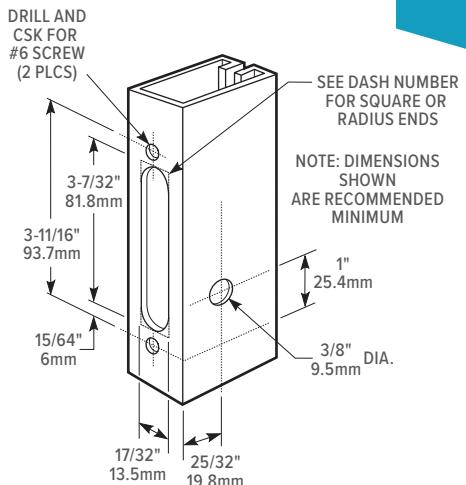
Shipping weight

1/2 lb [0.23 kg].

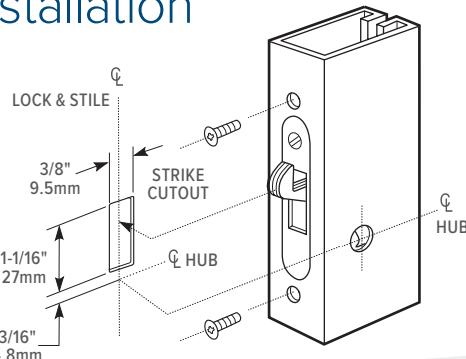
Dimensions



Stile Preparation



Installation



How to Order & Related Products

MS1847 Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	FACE SHAPE, HUB ANGLE, LOCK OR LATCH	BACKSET
MS1847	-02	-630
	 	 
	 	 
	 	 
	 	 

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES
1000 Series Turn	4024, 4025, 4026 Cylinder Pulls	4800 Strike



Aluminum

Swinging
DoorMS1850S-
X5X only

MS1850S, MS1850S-X5X Series MS® Deadlocks

The **MS1850S Series MS® Deadlock** utilizes a laminated stainless steel bolt to provide maximum security for a single leaf narrow stile aluminum door. The **MS1850S-X5X Series MS® Deadlock** utilizes a laminated stainless steel hookbolt to provide maximum security for a sliding narrow stile aluminum door. Both are activated by a pivot mechanism.

Function

A huge bolt of laminated stainless steel, nearly 3" long, activated by an uncomplicated pivot mechanism, has made the basic **MS1850S Series MS® Deadlock** the standard of the narrow stile aluminum door industry. The length of this bolt provides maximum security for a single leaf door, even a very tall and flexible one or an installation where the gap between the door and jamb is greater than it should be.

The **MS1850S-X5X Series MS® Deadlock** answers the security need of sliding narrow stile aluminum doors in commercial, industrial, and institutional buildings. The locking mechanism is identical to the MS1850S Series MS Deadlock, except that the massive laminated bolt is provided in a hook shape to resist the parting motion of sliding door and jamb. The over-center maximum security (MS) locking action assures that forced entry attempts to pry the door in any direction, up, down, or sideways will be defeated.

Special configuration: The 1850S-X2X Series Short Throw Deadlock utilizes a laminated stainless steel short bolt, activated by a pivot mechanism to secure a single leaf narrow stile aluminum door.



MS1850S



MS1850S-X5X

Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumturn, available separately. Lock accepts cylinder from either or both sides.

Features

Backset

7/8" [22.2 mm], 31/32" [24.6 mm], 1-1/8" [28.6 mm], and 1-1/2" [38.1 mm]. 1850S-X2X not available with 7/8" backset.

Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth], depth varies by backset (see table on left). Steel with corrosion-resistant plating.

Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm].

Strike

See below for dimensions of strike slot which can be cut in metal jamb. Trim plate, box strike, and armored strike are available separately.

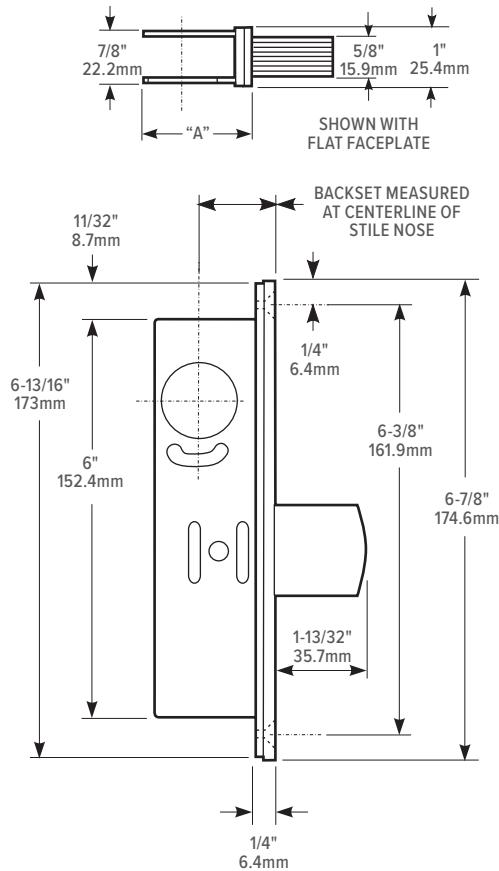
Bolt

Eight-ply laminated stainless steel. Center ply has alumina-ceramic core to defeat any hacksaw attack, including rod-type "super" hacksaws.

MS1850S: Standard straight bolt measures 5/8" x 1-3/8" x 2-7/8" [15.9 mm x 34.9 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw.

All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

MS1850S Dimensions



MS1850S-X5X: Hookbolt measures 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.6 mm] throw. Hook shaped bolt repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

1850S-X2X: Short bolt measures 5/8" x 1-3/8" x 2-3/8" [15.9 mm x 34.9 mm x 60.3 mm] with 13/16" [20.6 mm] throw.

Standard Package

Individually boxed with faceplate and mounting screws. Strike plates, cylinders and/or thumbturns available separately.

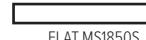
Shipping Weight

1-1/2 lbs [0.68 kg].

Options

- “SCHOOLHOUSE” version, also available, is modified so that operation from inside is “unlock only”. This lock is handed and must be specified LH or RH. Specify SCH1850S or SCH1850S-X5X (for standard or hook), SCH1850S-X2X (for short)..

ARMORED FACEPLATE
1" X 6-7/8"



RADIUS MS1851S



RADIUS W/ WEATHERSTRIP
MS1851SW

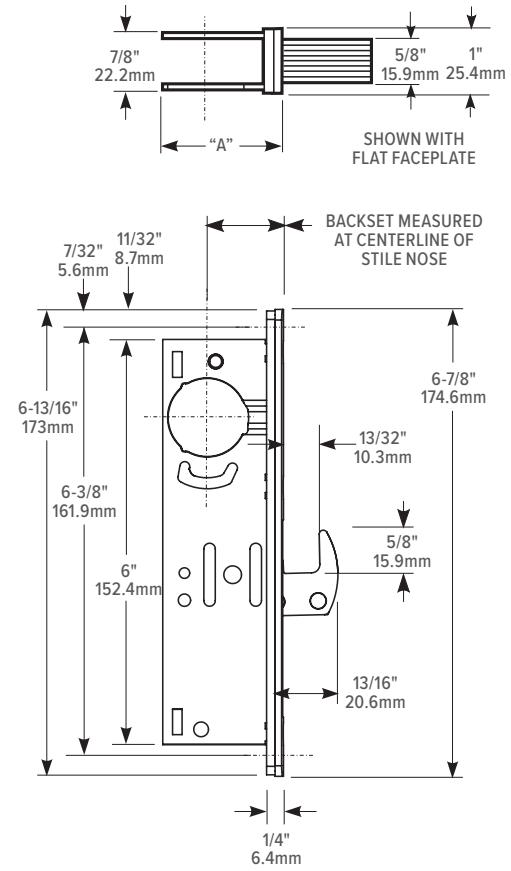


LH BEVEL MS1852S-X15



RH BEVEL MS1852S-X16

MS1850S-X5X Dimensions



BACKSET	“A”
7/8" 22mm	1-9/16" 34.7mm
31/32" 24.6mm	1-5/8" 41.3mm
1-1/8" 28.6mm	1-25/32" 45.2mm
1-1/2" 38.1mm	2-1/4" 57.2mm

HOW BACKSET IS MEASURED:

CYLINDER 

FLAT 

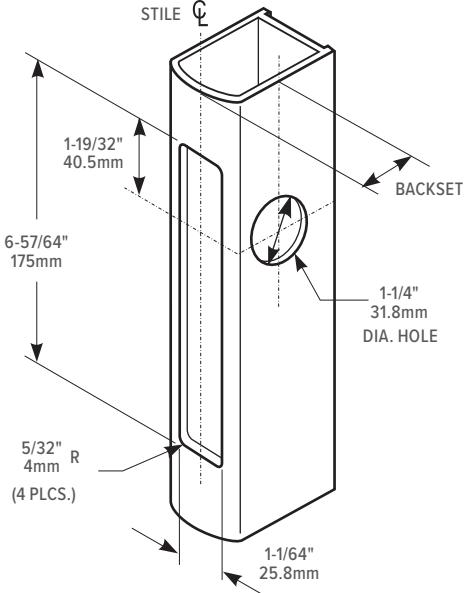
RADIUS 

BEVEL 

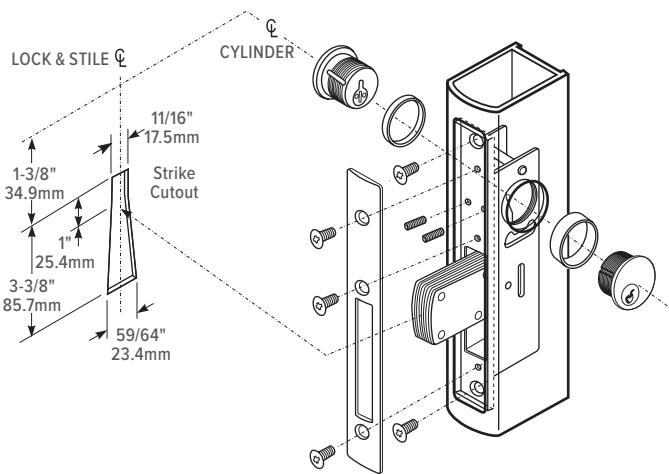
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

MS1850S

Stile Preparation

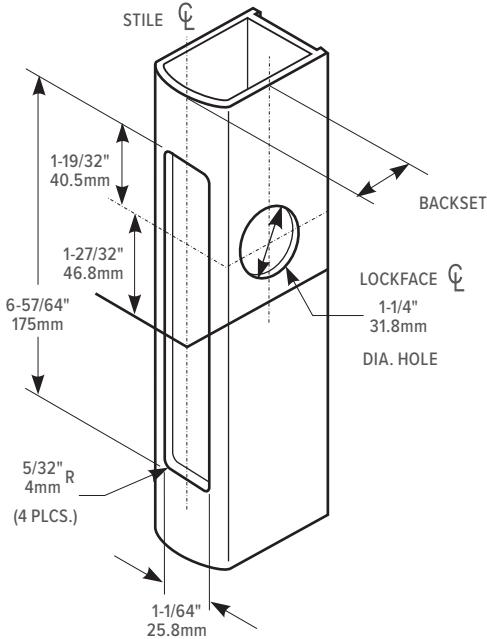


Lock & Cylinder Installation

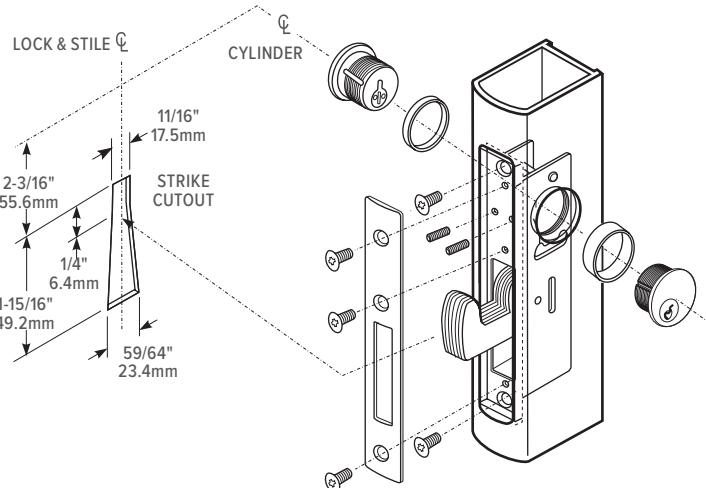


MS1850S-X5X

Stile Preparation



Lock & Cylinder Installation



How to Order & Related Products

MS185S, MS185S-X5X Series MS® Deadlock: Specify quantity and the following information. Order related products separately.

PRODUCT NO.	FACEPLATE	BACKSET	BOLT SHAPE	HANDING	FINISH
MS185	OS	-2	1	0	-628
	OS Flat	1 7/8"	1 Straight bolt	0 Non-Handed*	313 Dark Bronze Anodized
	1S Radius	2 31/32"	5 Hookbolt	5 LH or RHR	335 Black Anodized
	1SW Radius with weatherstrip	3 1-1/8"		6 RH or LHR	628 Clear Anodized
	2S Bevel	4 1-1/2"			

*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only. "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". This lock is handed and must be specified LH or RH. Specify SCH1850S or SCH1850S-X5X Series. Same faceplate and backset options as MS1850S and MS1850S-X5X Series.

1850S-X2X Series Short Throw Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	BOLT SHAPE	HANDING	FINISH
185	OS	-2	2	0	-628
	OS Flat	2 31/32"	2 Short Throw	0 Non-Handed*	313 Dark Bronze Anodized
	1S Radius	3 1-1/8"		5 LH or RHR	335 Black Anodized
	2S Bevel	4 1-1/2"		6 RH or LHR	628 Clear Anodized

*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only. "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". This lock is handed and must be specified LH or RH. Specify SCH1850S-X2X. Same faceplate and backset options as MS1850S-X2X.

RELATED PRODUCTS — MS1850S & MS1850S-X5X

When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES	SPECIAL ORDER OPTIONS
3090-150, 4550 Deadlock Lever	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbrturn; MS4043 Cylinder Guard	4000, 4001, MS4002 Deadlock Strikes 4015 Threshold Bolt, 4016 Header Bolt for multi-point locking. 4085 Header Bolt for pairs of doors Lock mounting accessories and options 4089 Exit Indicator	Schoolhouse function available as special order.



Hollow Metal



Wood



Swinging Door

MS1850SN450
only

MS® Prep

MS1850SN410, MS1850SN450 Series MS® Deadlocks

The ANSI size **MS1850SN410 Series MS® Deadlock** utilizes a laminated stainless steel bolt and the ANSI size **MS1850SN450 Series MS Deadlock** utilizes a stainless steel hookbolt, both activated by a pivot mechanism to provide maximum security for hollow metal or wood doors.

Function

For hollow metal or wood doors prepared for hardware according to the specifications of the American National Standards Institute (ANSI), the **MS1850SN410 Series MS® Deadlock** provides maximum security and ease of installation. Its standard 1-1/2" [38.1 mm] backset dimension provides adequate clearance for the deep stop on the door jamb of hollow metal entrances.

The ANSI size **MS1850SN450 Series MS® Deadlock** provides maximum security and ease of installation for hollow metal or wood sliding doors. Its standard 1-1/2" [38.1 mm] backset dimension provides adequate clearance for the deep jamb "pocket" of many commercial and industrial entrances. The locking mechanism is identical to the widely used MS1850S Series MS Deadlock, except that the massive laminated bolt is provided in a hook shape to resist the parting motion of sliding door and jamb. The over-center maximum security (MS) locking action assures that forced entry attempts to pry the door in any direction, up, down, or sideways will be defeated. Also useful for swinging doors closing against jambs too shallow for the 1-3/8" [34.9 mm] throw of the MS1850SN410 Series MS® Deadlock.



MS1850SN410



MS1850SN450

Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.

Features

Backset

1-1/2" [38.1 mm] available only

Case

Measures 1" x 6" x 2-1/4"
[25.4 mm x 152.4 mm x 57.2 mm]. Steel
with corrosion-resistant plating.

Bolt

Eight-ply laminated stainless steel. Center ply
has alumina-ceramic core to defeat any hacksaw
attack, including rod-type "super" hacksaws.

MS1850SN410: Standard straight bolt measures
5/8" x 1-3/8" x 2-7/8" [15.9 mm x 34.9 mm x
73.0 mm] with 1-3/8" [34.9 mm] throw.

MS1850SN450: Hookbolt measures 5/8" x 1-3/8"
[15.9 mm x 34.9 mm] with 13/16" [20.6 mm] throw.
Hook shape repels pry bar attempts to "spread"
the door from its jamb or lift it off its track.

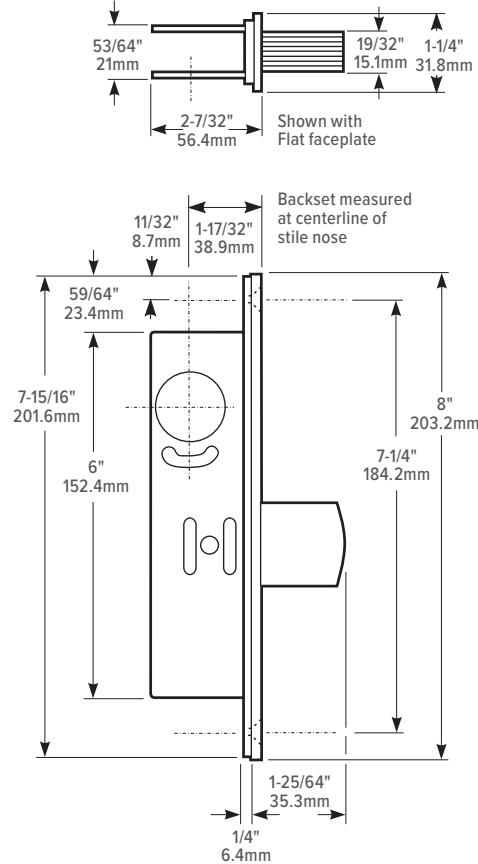
Faceplate

Measures 1-1/4" x 8" [31.8 mm x 203.2 mm].

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

MS1850SN410

Dimensions



Strike

See below for dimensions of strike slot which
can be cut in metal jamb. Lipped, ANSI-spec,
and other strike plates available separately.

Standard Package

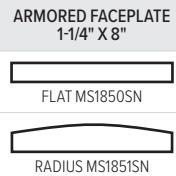
Individually boxed with faceplate and
mounting screws. Strike plates, cylinders and/
or thumbturns available separately.

Shipping Weight

1-1/2 lbs [0.68 kg].

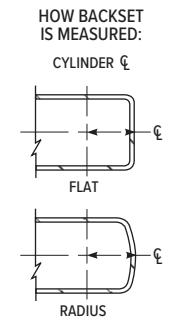
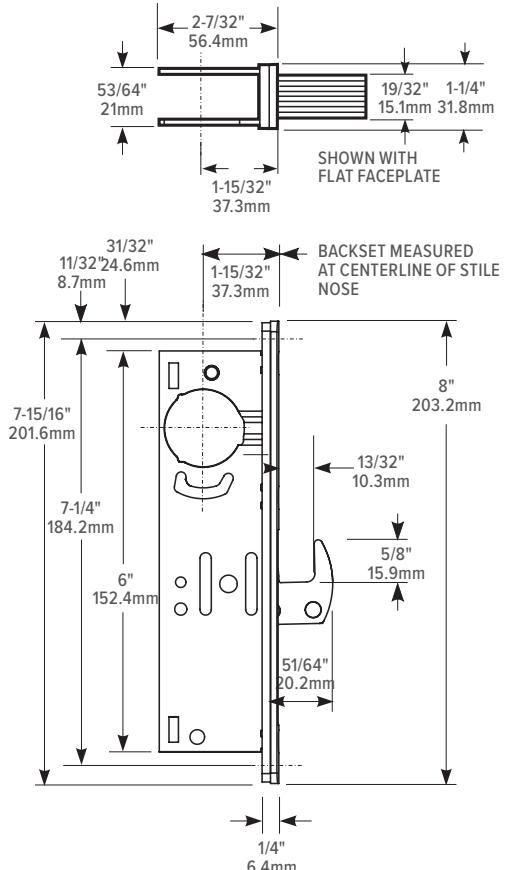
Options

- "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". Specify SCH1850SN410 or SCH1850SN450 Series. Same faceplate and backset options as MS1850SN410 or MS1850SN450 Series.



MS1850SN450

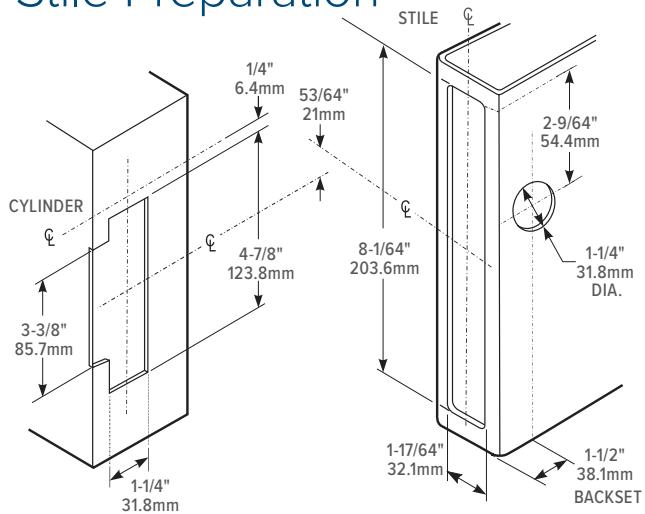
Dimensions



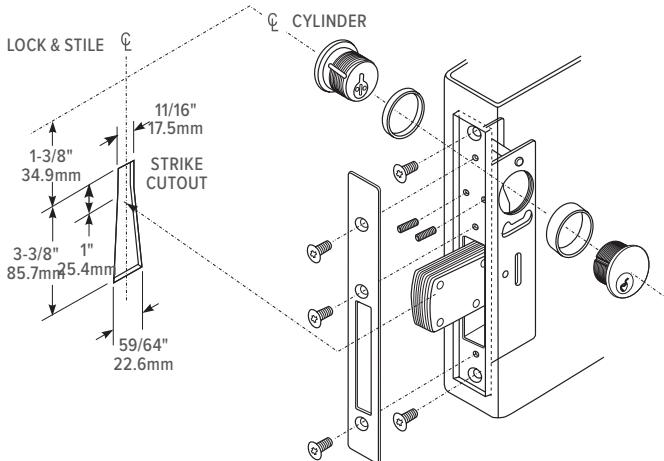
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

MS1850SN410

Stile Preparation

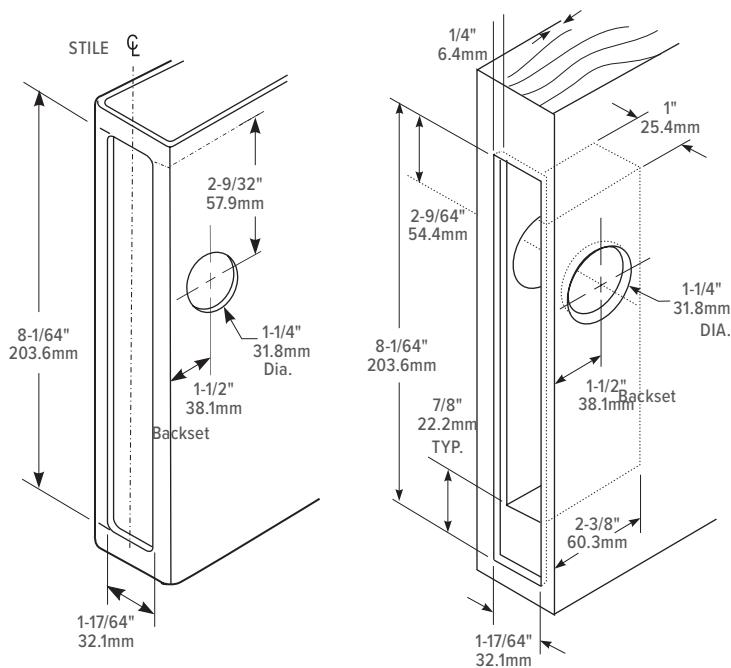


Lock & Cylinder Installation



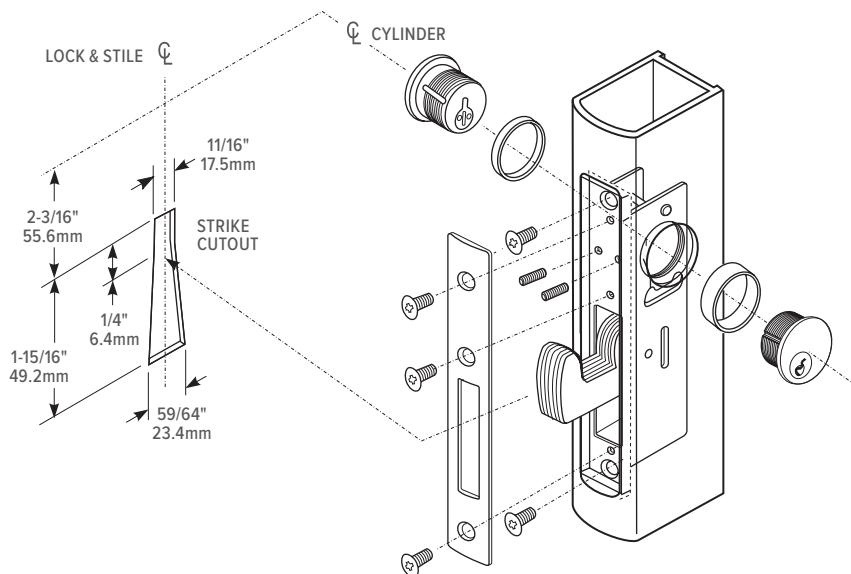
MS1850S450

Stile & Wood Preparation



MS1850S450

Lock & Cylinder Installation



How to Order & Related Products

MS1850SN410, MS1850SN450 Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	ANSI SIZE	BOLT SHAPE	FINISH
MS185	0	SN	410	628
	0 Flat		410 Straight bolt	313 Dark Bronze Anodized
	1 Radius		450 Hookbolt	335 Black Anodized
				628 Clear Anodized

*Any flat or radius faceplate, except Schoolhouse. "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". Specify SCH1850SN410 or SCH1850SN450 Series. Same faceplate and backset options as MS1850SN410 or MS1850SN450 Series.

RELATED PRODUCTS – MS1850SN410 & MS1850SN450

When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES	SPECIAL ORDER OPTIONS
3090-150, 4550 Deadlock Lever	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbrturn; MS4043 Cylinder Guard	4000, 4001, MS4002 Deadlock Strikes 4015 Threshold Bolt, 4016 Header Bolt for multi-point locking. 4085 Header Bolt for pairs of doors Lock mounting accessories and options 4089 Exit Indicator	Schoolhouse function available as special order.

MS1861 Series

MS® Bottom Rail Deadbolt

MS1861 Bottom Rail Deadbolt

provides maximum security with MS deadbolt locking mechanism. It utilizes hardened steel bolts for the limited space of ultra-narrow stile doors.



Function

The MS1861 lies horizontally in the bottom rail of ultra-narrow stile doors which have insufficient vertical space for a lock, or tempered glass doors which have no stile at all. The hardened steel cylindrical bolts allow simple drilled strike holes of a relatively small size to minimize the nuisance and danger presented by some threshold strikes in collecting debris or snagging on high-heeled shoes. MS1861-02 locks either single-leaf or pairs of doors. Not recommended for wood doors.

Operation

360° turn of key or thumbturn projects or retracts bolt(s). Key can be removed only when bolts are in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.

Features

Cylinder Backset

Minimum backset is approximately 2-1/4" [57.2 mm] for the MS1861-01 configuration with vertical bolt only. The MS1861-02 configuration with both vertical and horizontal bolts requires placement of cylinder center line 5-3/4" [146.1 mm] from nose of door. Both have cylinder center 1-7/8" [47.6 mm] above bottom edge of door.

Case

Measures 1" x 6" x 1-13/16" [25.4 mm x 152.4 mm x 46.0 mm]. Steel with corrosion-resistant plating.

Bolt

3/8" [9.5 mm] diameter. Stainless steel vertical threshold bolt has 13/16" [20.6 mm] throw. Hardened steel horizontal bolt has 1-1/8" [28.6 mm] throw.

Strike

In metal installation, 7/16" [11.1 mm] drilled holes in threshold are required. For MS1861-02 configuration with both vertical and horizontal bolts, drilled holes are also required in jamb or opposite door.

Standard Package

Individually boxed with mounting screws. Cylinder and/or thumbturn available separately. If required, tube spacers are available separately.

Shipping weight

MS1861-01: 1-3/4 lbs [0.79 kg],
MS1861-02: 2 lbs [0.91 kg]

Options

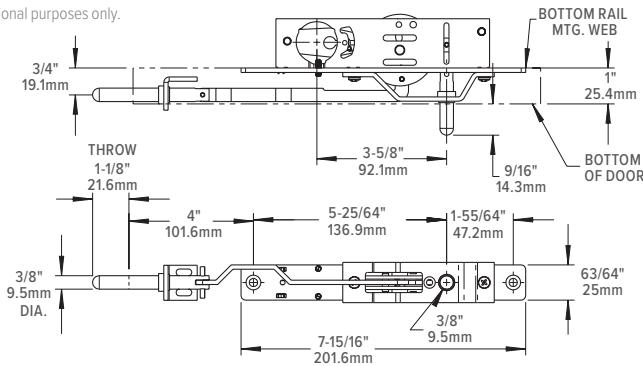
- Vertical bolt only (-01)
- Vertical and horizontal bolts (-02)

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions

Unit illustrated is MS1861-02. (Both horizontal & vertical bolts included)
Part number for vertical bolt operation only is MS1861-01. Conversion Kit no.

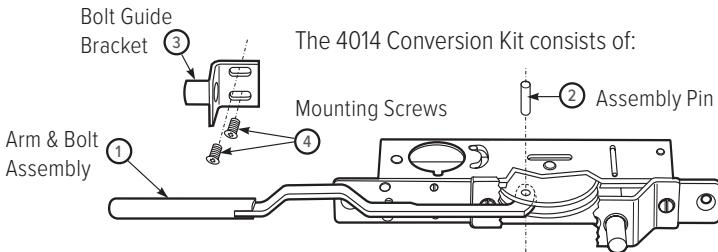
4014 available to convert
MS1861-01 to MS1861-02.



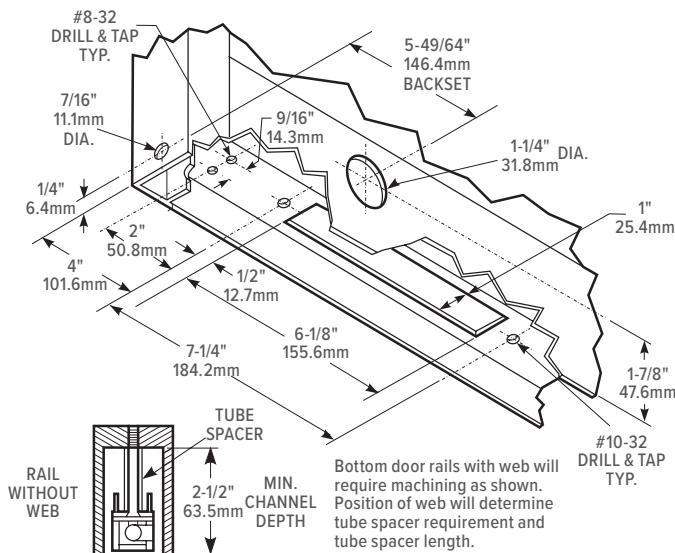
4014 Conversion Kit

To convert MS1861-01 to MS1861-02, 4014 Conversion Kit provides horizontal bolt assembly with guide and attachment fittings.

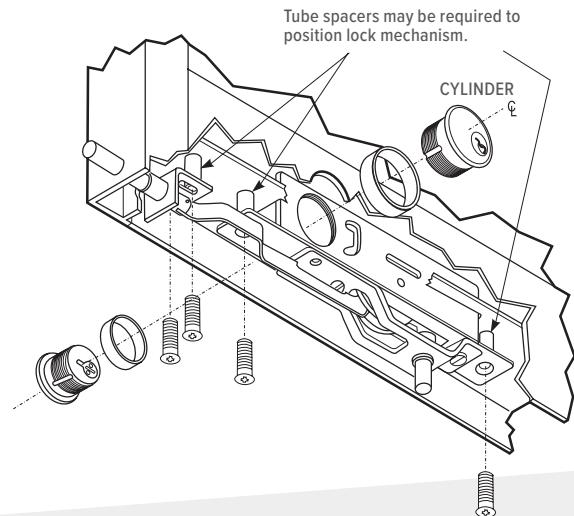
To assemble, press pin through disc and arm.



Rail Preparation



Lock & Cylinder Installation



How to Order & Related Products

MS1861 Series MS® Bottom Rail Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	BOLT OPERATION	FINISH	PACKAGING
MS1861	-01	-603	-IB
	01 Vertical Bolt Only	603 Zinc plated steel	IB Individually Boxed
	02 Vertical and Horizontal Bolts		

If tube spacers are required, specify QUANTITY and LENGTH..

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn MS4043 Cylinder guard	4014 Conversion Kit for multi-point locking. MS1861 may be ordered with vertical and horizontal bolts (Bolt Operation option 2). Tube spacers (26-00090XX)"



1875

Two-Point Deadlock

1875 Two-Point Deadlock provides security for roll-up doors, security screens, or similar doors. Two-point locking is achieved using two bolts, which are operational from either or both sides of the deadlock.



Function

For overhead doors, roll-up security screens, or similar doors. Provides turn operation of two bolts from either or both sides. Accepts standard mortise cylinders for key control of bolts to secure them in either projected or retracted position.

Operation

90° rotation of turn projects or retracts bolts. 360° turn of key deadlocks mechanism, preventing operation of the turn in either locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.

Features

Cylinder Backset

Bolt arms require inside stile clearance of 1-11/16" [42.9 mm] on one side of cylinder center, 1" [25.4 mm] on the other.

Case

Measures 1" x 6" x 2-5/8" [25.4 mm x 152.4 mm x 66.7 mm]. Steel with corrosion-resistant plating.

Bolt Arms

1-1/32" [26.2 mm] throw. Threaded for 1/4" – 20 rods. Because of design variations in this type of door, no standard bolt can be offered to fit all makes of doors. Please contact factory for more information on bolts, rods, bolt guides, and strikes to fit individual door designs.

Turn

4060 Turn: Available separately. Zinc alloy escutcheon and handle. Available in 130 to match 628 Clear Anodized finish. Steel spindle is also available to accommodate various door thicknesses.

Standard Package

Individually boxed. Cylinder and/or thumbturn available separately.

Shipping weight

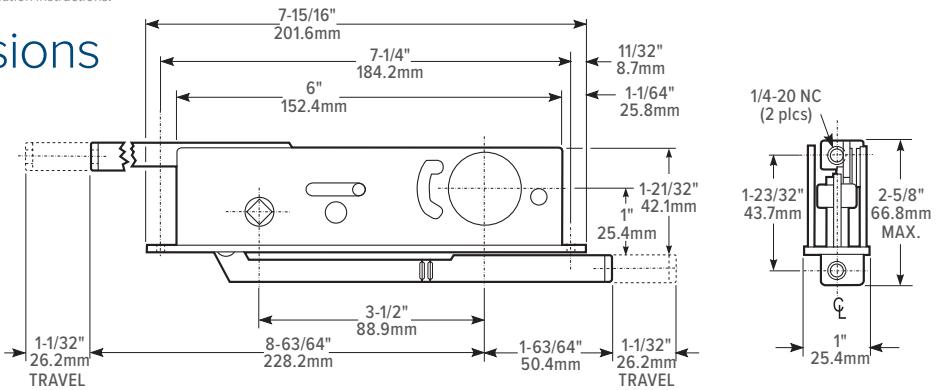
1-1/2 lbs [0.68 kg]

Options

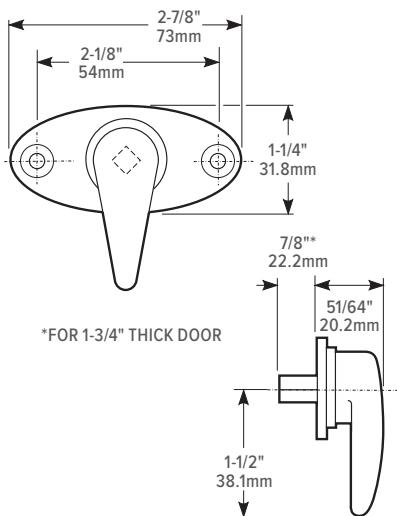
- 4060 Turn available separately with choice of spindle lengths
- Bolt, connecting rod, bolt guide, strike available separately by special order

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

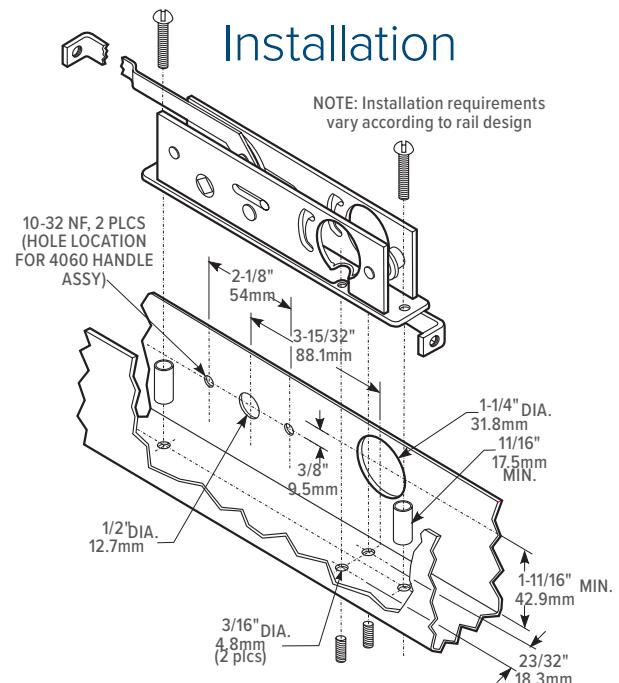
Dimensions



4060 Turn



Installation



How to Order & Related Products

1875 Two Point Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	PACKAGING
1875	-IB
	IB Individually Boxed

4060 Turn: Specify quantity and the following information. Order related products separately.

MODEL	DOOR THICKNESS	FINISH
4060	-05	-130
	05 1-1/2"	
	06 1-3/4"	
	07 2"	130 To match 628 Clear Anodized

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES	SPECIAL ORDER OPTIONS
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn	MS4043 Cylinder guard	31-0278-XX Bolt and Connecting Rod Assembly by special order only.



Aluminum



Swinging Door

MS® Prep

MS+1890 Series

MS® Deadlock/Deadlatch

MS+1890 Series MS Deadlock/Deadlatch provides a maximum security deadlock for after hour and traffic control with deadlatch convenience during business hours.

Function

Maximum security MS+ deadlock after hours, plus the convenience of traffic control management during the business day. Typical installation is a bank or store requiring three modes of door control:

1. Both lock and latchbolts retracted for unrestricted entry and exit during business hours
2. Handle-operated latch for exit-only traffic just after closing
3. Maximum security MS hookbolt for overnight lockup. When using trim (available separately) to activate, handle or paddle operates latchbolt only.



Operation

360° turn of key or thumbturn projects or retracts the hookbolt. 120° further turn retracts latchbolt as well. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides. When using trim (available separately) to activate, handle retracts spring-loaded latchbolt only. For door thickness other than 1-3/4", please contact factory.

Features

Cylinder Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" [38.1 mm].

Case

Measures 1" x 7-3/8" x depth [25.4 mm x 187.3 mm x depth], depth varies by backset (see table on back of page). Steel with corrosion-resistant plating.

Bolt

Deadlock bolt: 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.6 mm] throw. Eight-ply laminated stainless steel. Center ply has alumina-ceramic core to defeat any hacksaw attack, including rod-type "super" hacksaws, while hook shape repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

Latchbolt: Measures 5/8" x 5/8" [15.9 mm x 15.9 mm] with 7/16" [11.1 mm] throw. Zinc alloy with Delrin

face for smooth, quiet action. Handing easily reversible. Bolt can be held fully retracted to allow door to be free swinging (see illustration on back of page).

Strike

Armored strike with satin stainless steel trimplate with steel mounting plate and dust box. Flat strike furnished. Also available for pairs of doors in radius shape, or flat with square corners for ANSI hollow metal jambs. Flat strikes also available with longer lip.

MS+1890 Deadlock/Latch cannot be used with electric strikes.

Standard Package

Individually boxed with strike and machine screws for mounting. Cylinder and/or thumbturn available separately.

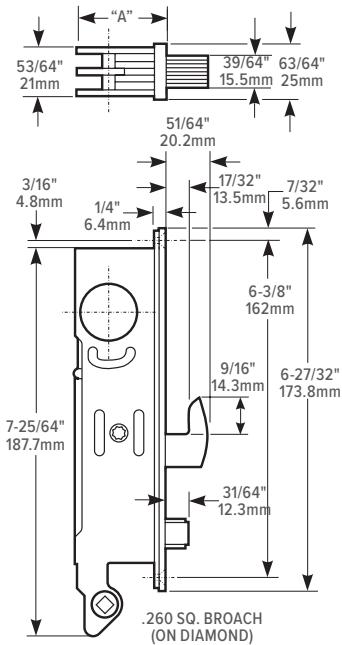
Shipping weight

2 lbs [.91 kg]

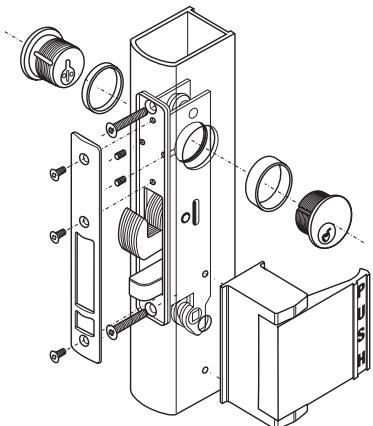
Options

- Handle, paddle available separately for one side only or both sides. Handles, paddles on both sides solve, with minimum traffic impediment, the problem of doors that stand ajar due to wind or air-conditioning pressures.
- Available in right hand or left hand configurations
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized

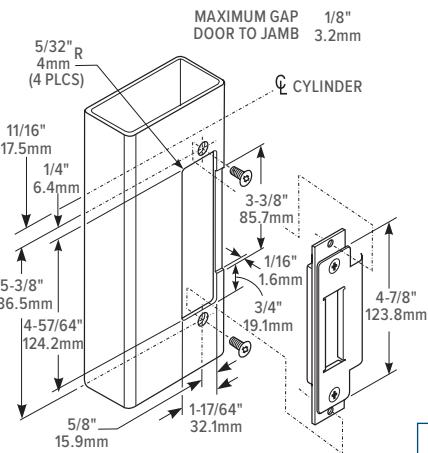
Dimensions



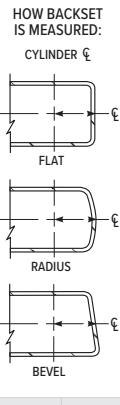
Latch/Lock, Cylinder & Paddle Installation



Jamb Preparation

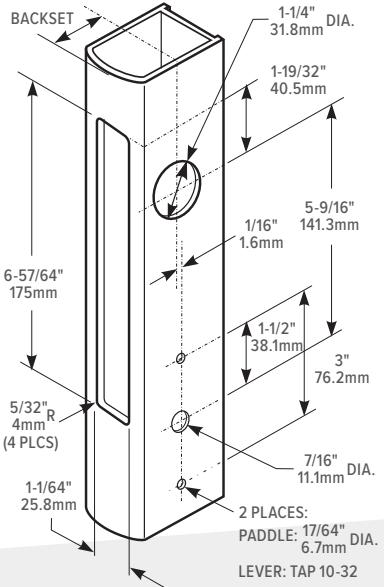


(COVERS ANY PREVIOUS CUTOUT FOR MS® DEADBOLT)

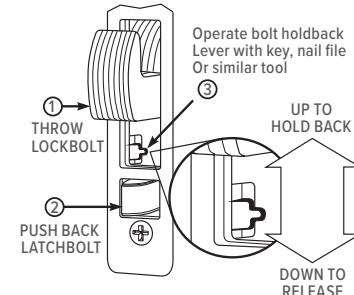


HOW BACKSET IS MEASURED:	
CYLINDER ℓ	
FLAT	ℓ
RADIUS	ℓ
BEVEL	ℓ
ARMORED FACEPLATE 1" X 6-7/8"	
FLAT MS+1890	
RADIUS MS+1891	
RADIUS W/ WEATHERSTRIP MS+1891W	
LH BEVEL MS+1892 (LH)	
RH BEVEL MS+1892 (RH)	

Stile Preparation



Latch Holdback Instructions



How to Order & Related Products

MS+1890 Series MS® Deadlock/Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	STRIKE SHAPE/LIP LENGTH	HANDING	FINISH
MS+189	1	-3	02	6	-628
0 Flat	2 31/32"	01	Flat/Standard Jamb	5 LH or RHR	313 Dark Bronze Anodized
	3 1-1/8"	02	Radius/Standard Stile	6 RH or LHR	335 Black Anodized
	4 1-1/2"	17	Flat/Center Hung 4" Jamb		628 Clear Anodized
	5/32" R 4mm (4 PLCS)	21	Flat/Center Hung 4-1/2" Jamb		

For door thickness other than 1-3/4", contact factory.

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES
4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Deadlatch Paddles.	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbrturn; MS4043 Cylinder Guard	Trim strikes, including 4505 armored strike. 4089 Exit Indicator



Aluminum



Swinging Door

MS1950P only

Sliding Door
only

MS® Prep

MS1950P, MS1950P-X5X Series MS® Deadlocks

The fully stainless steel **MS1950P Series MS Deadlock** utilizes a laminated stainless steel bolt, now with enhanced security features to provide maximum security for a single leaf aluminum door.



MS1950P

The fully stainless steel **MS1950P-X5X Series MS Deadlock** utilizes a laminated stainless steel hookbolt, now with enhanced security features to provide maximum security for a sliding aluminum door.

Both are activated by a pivot mechanism.



MS1950P-X5X

Function

A 3" laminated stainless steel bolt and complete stainless steel construction makes the heavy duty **MS1950P MS® Deadlock** a higher security, premium locking solution for swinging doors.

The MS1950P is compatible with header and threshold bolts to accommodate multi-point locking in a double door application.

The stainless steel hookbolt of the **MS1950P-X5X Series MS® Deadlock** answers the security need of sliding doors. The hook shaped bolt resists the parting motion of sliding door and jamb.

Operation

For ingress, a 360° turn of the key or thumbturn on the exterior cylinder retracts the counterbalanced bolt. While the bolt is retracted the door acts as a passage function, until the deadlock is re-locked from either side of the opening. Typically, if the door remains unlocked during business hours, the interior side is equipped with a mortise cylinder and indicator to allow for flexible traffic control by management. An interior thumbturn to lock the bolt and a 4550 lever can also be installed on the interior side to ensure free egress & ADA compliance.

Key can be removed only when bolt is in a locked or unlocked state. Lock body accepts a mortise cylinder, thumbturn, 4089 indicator, or 4550 deadlock lever from either side.

Features

Cylinder Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" [38.1 mm] only.

Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth], depth varies by backset (see table left). Fully stainless steel case and internal components. Internal stainless steel plate for enhanced security.

Bolt

Eight-ply laminated stainless steel. Center ply has alumina-ceramic core to defeat any hacksaw attack, including rod-type "super" hacksaws.

MS1950P Bolt: Standard straight bolt measures 5/8" x 1-3/8" x 2-7/8" [15.9 mm x 34.9 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw.

MS1950P-X5X Bolt: 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.3 mm] throw. Hook shape repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm].

Strike

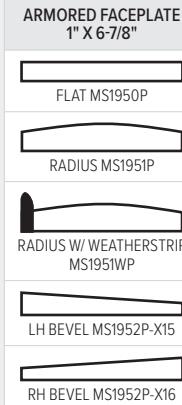
See next page for dimensions of strike slot which can be cut in metal jamb. Trim plate, box strike, and armored strike are available separately.

Standard Package

Individually boxed with machine screws for mounting. Cylinders and/or thumbturns available separately.

Shipping weight

1-1/2 lbs. [0.68 kg]

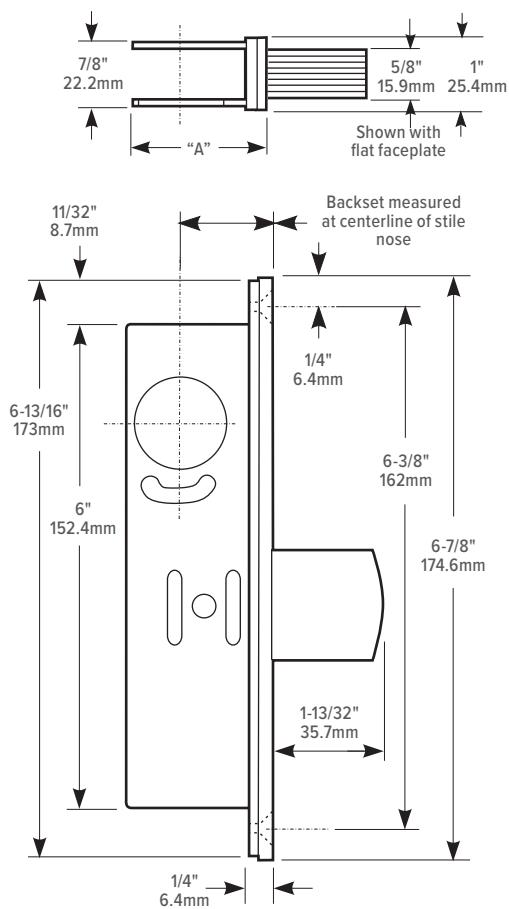


Options

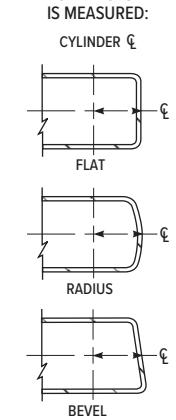
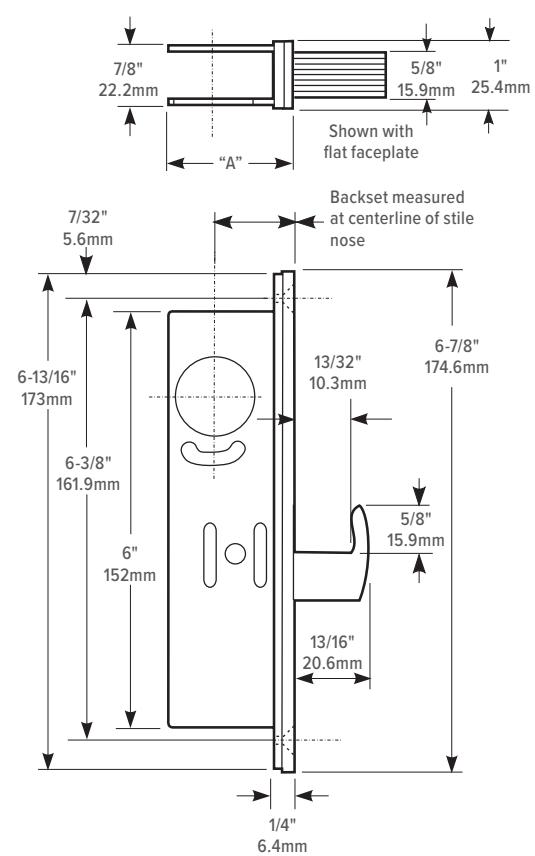
- "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". This lock is handed and must be specified LH or RH. Specify Series SCH1950, (-X5X). Same faceplate and backset options as Series MS1950P, (-X5X).

All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

MS1950P Dimensions

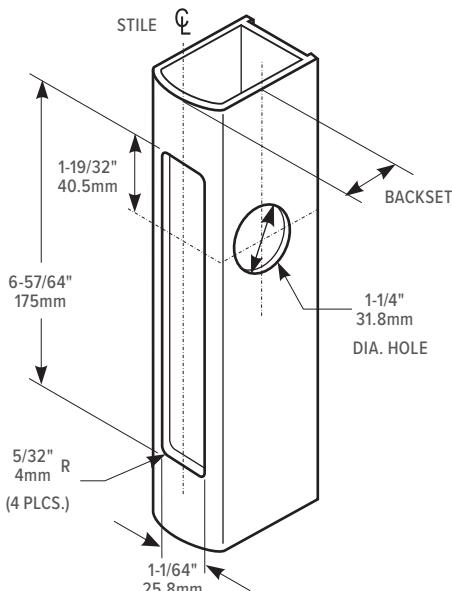


MS1950P-X5X Dimensions

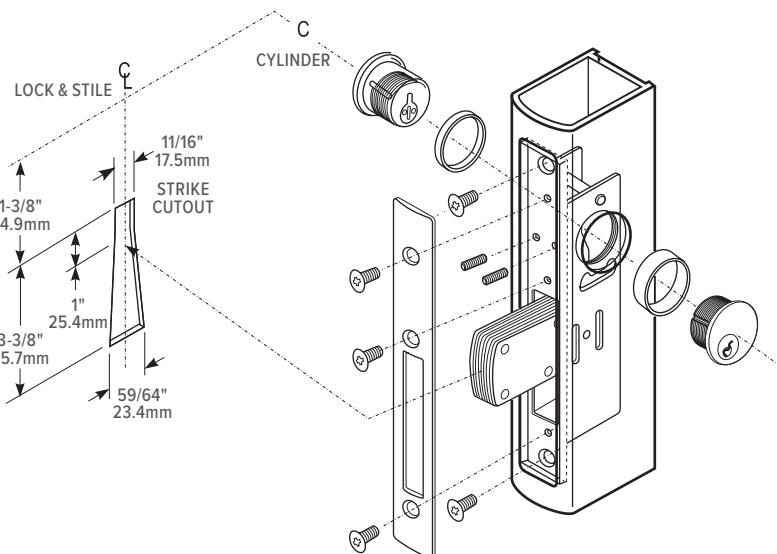


All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

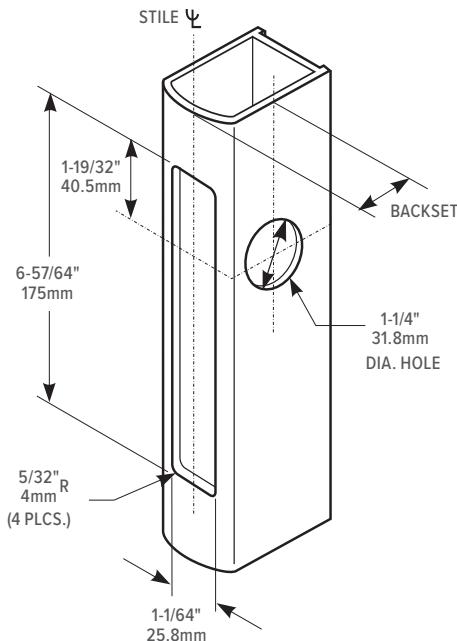
MS1950P Stile Preparation



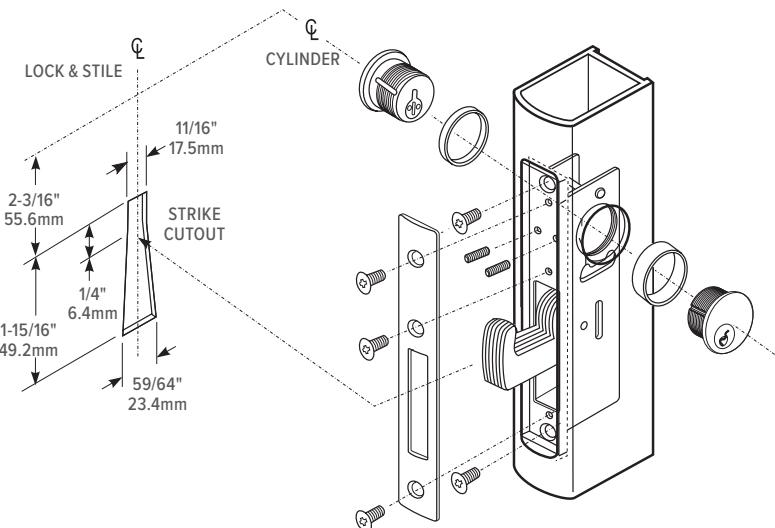
Lock & Cylinder Installation



MS1950P-X5X Stile Preparation



Lock & Cylinder Installation



How to Order & Related Products

MS1950P, MS1950P-X5X Series MS® Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	BOLT SHAPE	HANDING	FINISH
MS195	OP	-2	1	0	-628
	OP Flat	2 31/32"	1 Straight bolt	0 Non-Handed*	313 Dark Bronze Anodized
	1P Radius	3 1-1/8"	5 Hookbolt	5 LH or RHR	335 Black Anodized
	1WP Radius with weatherstrip	4 1-1/2"	6 RH or LHR	628 Clear Anodized	
	2P Bevel				
	3P Without faceplate, without strike plate				

*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only.

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES	SPECIAL ORDER OPTIONS
3090-150, 4550 Deadlock Lever	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn; MS4043 Cylinder Guard	4000, 4001, MS4002 Deadlock Strikes 4015 Threshold Bolt, 4016 Header Bolt for multi-point locking. 4085 Header Bolt for pairs of doors Lock mounting accessories and options 4089 Exit Indicator	Schoolhouse function available as special order.



MS® Prep

Dual Force® 2190, 2290 Series Interconnected Deadbolt/Deadlatch

The 2190 Series Interconnected Deadbolt/Deadlatch provides access control and security for narrow stile aluminum (**2190**), hollow metal and wood doors (**2290**). Deadlatch and deadbolt capabilities are combined for fast, easy, and panic-proof exiting.

Function

The Dual Force combines the access control capabilities of a latch with the security of a deadbolt. The key retracts and extends the deadbolt and deadlatch from either side. The exterior lever retracts the latch only. With the deadbolt projected, a simple turn of the inside lever retracts both the latch and deadbolt simultaneously, providing single-motion, panic-proof exiting. The Dual Force is available with electrified trim set for easy integration into an existing access control system. Standard and electrified trim sets are for out-swinging doors only; low profile trim set designed for in-swinging doors only.

Operation

Key or thumbturn projects or retracts deadbolt or deadlatch. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately. Lock accepts cylinder from either or both sides.

Inside lever retracts both deadbolt and deadlatch when configured with interconnect feature. Outside lever retracts latch only. Latch holdback feature activated or deactivated by turning key to retract latch. Sliding holdback button on faceplate down will holdback latch and sliding up will release. The 2190 Series Interconnected Deadbolt/Deadlatch are designed to operate with the uniquely designed strike plate that comes standard in the package from the factory.



Features

Cylinder Backset

1-1/8" [28.6 mm] or 1-1/2" [38.1 mm] only.

Bolt

Latchbolt: 5/8" [15.9 mm] throw of solid brass.
Easily reversible using only a screwdriver.
Deadbolt: 1" [25.4mm] throw of stainless steel.

Auxiliary Deadlatch Pin

Stainless steel. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

Faceplate

Includes faceplate system that adapts to flat, radius, or beveled door edge.

2190: Measures 1" x 6-7/8"

[25.4 mm x 174.6 mm]. Radius with weatherseal faceplate available separately.

2290: Measures 1-1/4" x 8"

[31.8 mm x 203.2 mm].

Strike

The Dual Force 2190, 2290 Interconnected Deadbolt/Deadlatch will not operate without its specially designed strike, included standard in package.

2190: Standard strike furnished is the 2101-01 Strike for flat jamb where door closes flush or nearly flush. The 2101 Strike covers MS® Deadlock strike preparation with modification, and the 4901 Deadlatch Strike directly. Also available in radius version for opposite stile pairs of doors and with extended lip strikes for special jamb conditions.

2290: Standard strike furnished is the 2206 (ASA) Strike for flat jamb where door closes flush or nearly flush.

Inter Connection

Field-selectable inter-connection feature allows interior trim to retract deadbolt and deadlatch. Consult local authority having jurisdiction (AHJ) for guidance in code compliance. 1-3/4" [44.5 mm] minimum door thickness required.

- 2190 retrofits to existing MS1850S Deadlock or 4500 and 4900 Deadlatch of the same backset.

Standard Package

Individually boxed with trim as specified, strike and machine screws for mounting. Cylinder available separately.

Shipping Weight

9 lbs [4.08 kg].

Electrical

Electrified Trim Options

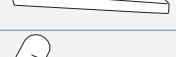
Electrified trim set is designed for easy integration into an existing access control system. Dual-voltage 12/24 VDC rated for continuous duty operation. Energizing the trim set allows the exterior lever to be turned to retract the latch only.

The electrified option is not available for low profile trim (trim option 3). Dual Force 2190/2290 Electrification Kit EK-2190 available separately for field-installation into the exterior standard trim set.

Options

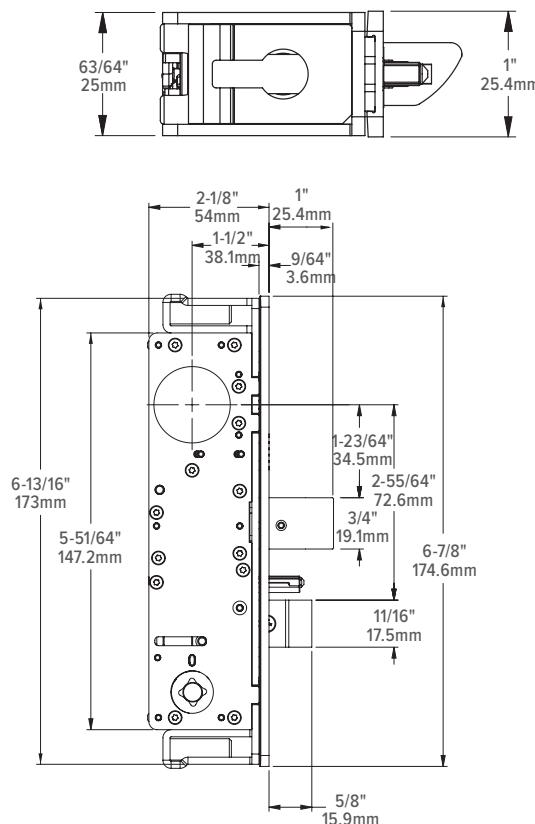
- Specify trim option, lever style, finish, and strike.
- Thick Door Kits (2190-TDKXX) available separately. Specify door thickness.
- Request to Exit REX-4600 switch available separately for small format low profile trim set.
- Available in choice of US3 (605) Bright brass, US4 (606) Satin brass, 10B powder coat to match dark bronze, US32 (629) Bright stainless, or US32D (630) Satin stainless.

Options & Accessories

OPTION	DESCRIPTION SHORT
	Standard Series 01 Standard lever, curved
	Standard Series 02 Standard lever, round
	Standard Series 03 Standard lever, square
	Aventura Series ME Studio Collection designer lever
	Aventura Series MG Studio Collection designer lever
	Aventura Series MI Studio Collection designer lever
	Aventura Series MW Studio Collection designer lever
	Centro Series MD Studio Collection designer lever
	Centro Series MJ Studio Collection designer lever
	Odeon Series MN Studio Collection designer lever
	Odeon Series MV Studio Collection designer lever

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

2190 Dimensions



ARMORED FACEPLATE 1" X 6-7/8"

FLAT 24-0066-01 (included)

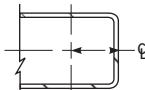
RADIUS 24-0066-02 (included)

RADIUS W/ WEATHERSTRIP
24-0066-03

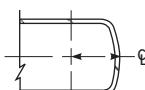
BACKSET	"A"
1-1/8"	1-25/32"
28.6mm	45.2mm
1-1/2"	2-1/4"
38.1mm	57.2mm

HOW BACKSET IS MEASURED:

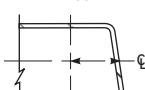
CYLINDER $\frac{1}{4}$



FLAT

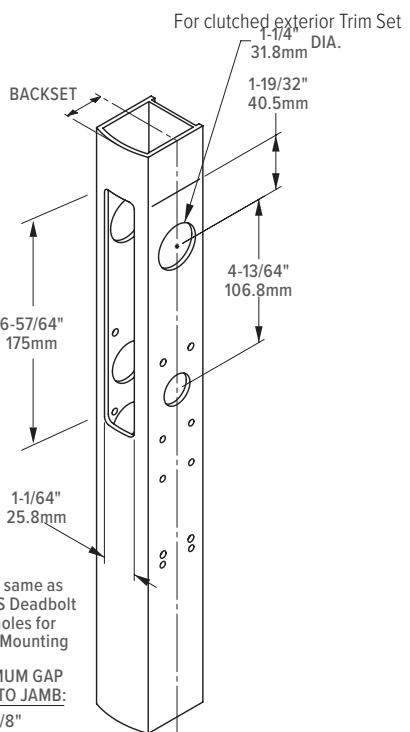


RADIUS

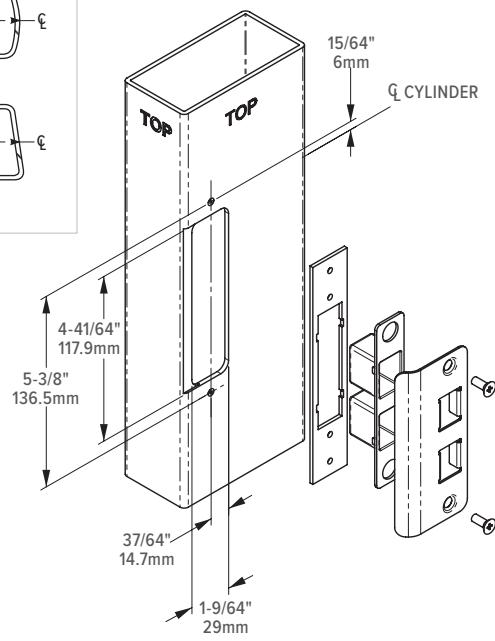


BEVEL

Stile Preparation

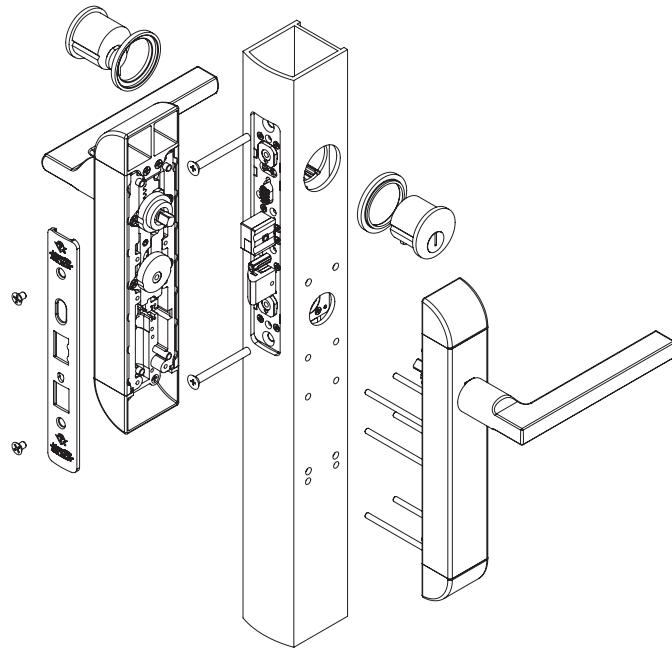


Jamb Preparations



2101 Strike (covers and previous cutout for MS® Deadbolt)
— Retrofits 4901 and 4501 strike preparations.

Latch/Lock, Cylinder & Lever Installation

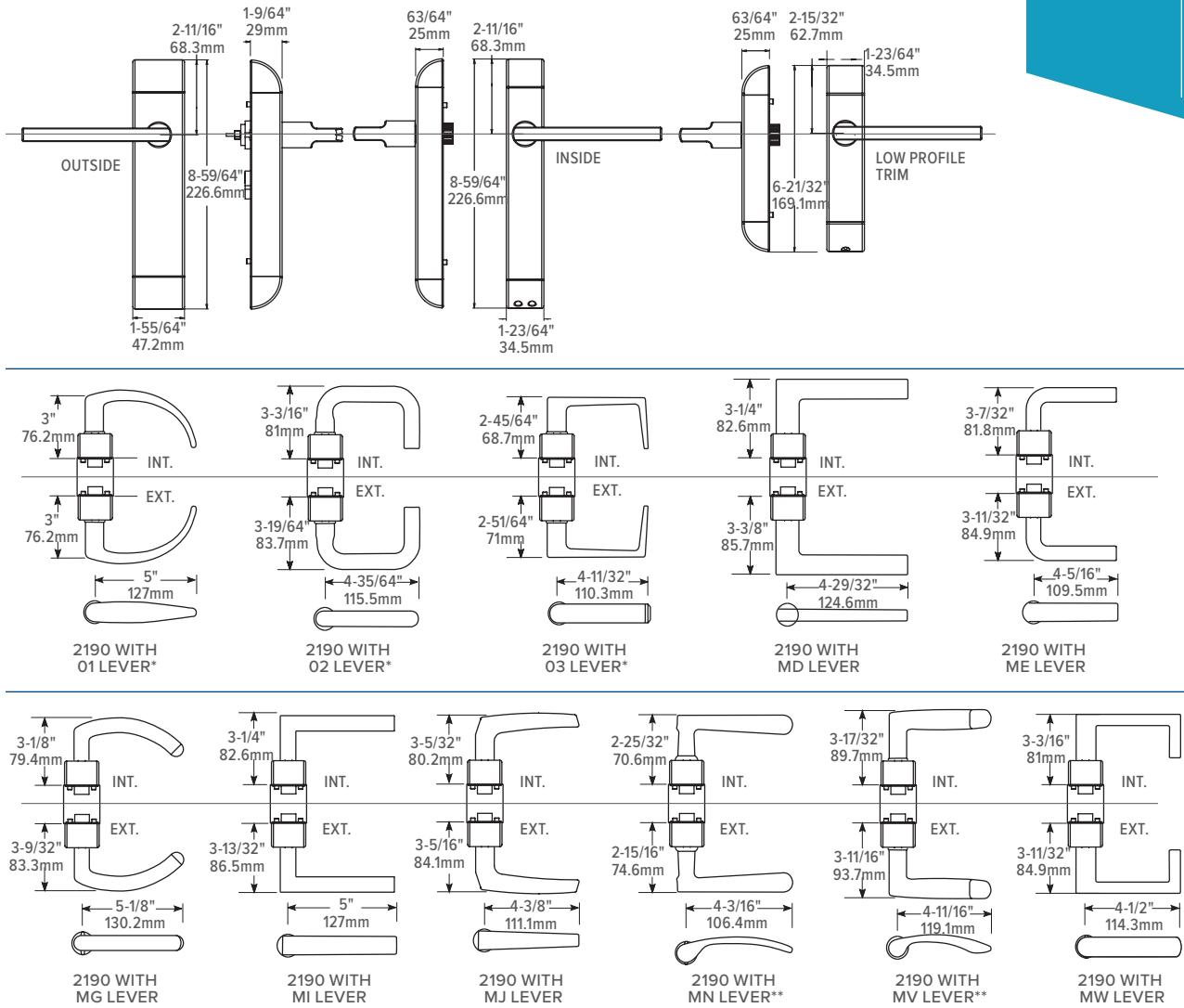


All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

* The 2190-01, -02, and -03 lever handles are designed to return within 1/2" of the door face.

Handles in the Designer Series do not have this same feature. Please verify with local code requirements to ensure compliance.

2190 Dimensions



** Handed

How to Order & Related Products

2190 Interconnected Deadbolt/Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	STRIKE	FACEPLATE FINISH	TRIM	HANDLE DESIGNATION	TRIM AND HANDLE FINISH
2190	-3	1	1	-1	01	32D
	3 1-1/8"	0 None	1 Clear Anodized 628	0 None	00 No Handle	03 Bright Brass (US3)
	4 1-1/2"	1 Standard Flat	2 Dark Bronze Anodized 313	1 With Trim Set	STANDARD SERIES:	04 Satin Brass (US4)
		2 Radius Strike	3 Black Anodized 335	2 With Electrified Trim Set	01 Curve 02 Round 03 Square	10B to match Dark Bronze
				3 Low Profile Trim	DESIGNER SERIES:	32 Bright Stainless (US32)
					MD MG MJ MV	32D Satin Stainless (US32D)
					ME (Handed) MI MN MW	

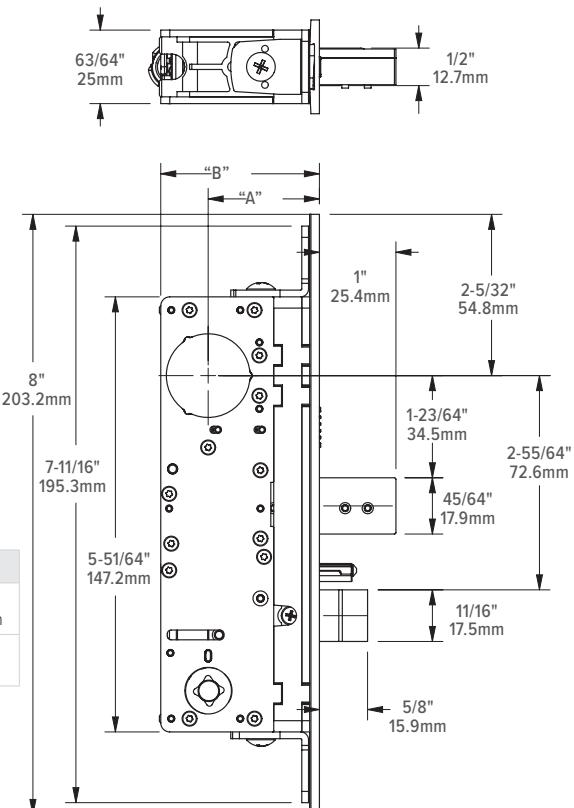
RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES	ELECTRIFICATION
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn; MS4043 Cylinder Guard	2190-TDK Thick Door Kit for standard exterior trim set, TDK-4600 Thick Door Kit for low profile trim set.	EK-2190 Electrification Kit. 2190 may be ordered with electrified trim (trim option 2).

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

2290 Dimensions



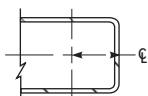
ARMORED FACEPLATE
1-1/4" X 8"

FLAT (included)
FPK-0066-OX-XXX

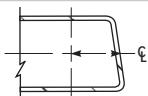
BACKSET	"A"	"B"
1-1/8" 28.6mm	1-1/8" 28.6mm	1-3/4" 45.2mm
1-1/2" 38.1mm	1-1/2" 38.1mm	2-1/8" 54mm

HOW BACKSET
IS MEASURED:

CYLINDER \triangleleft

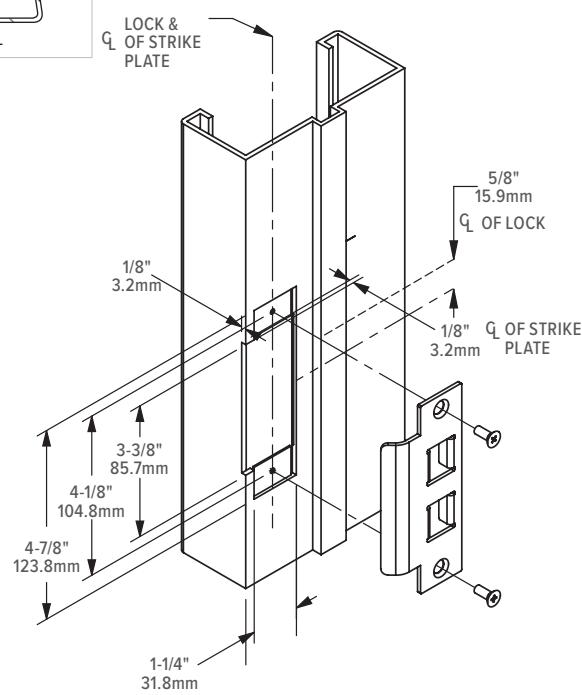


FLAT



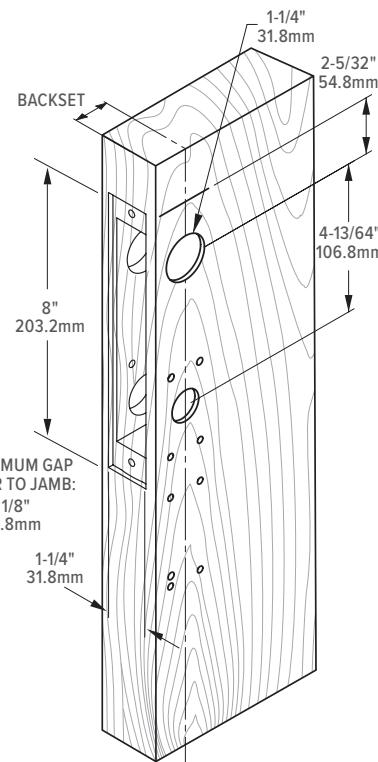
BEVEL

Jamb Preparations

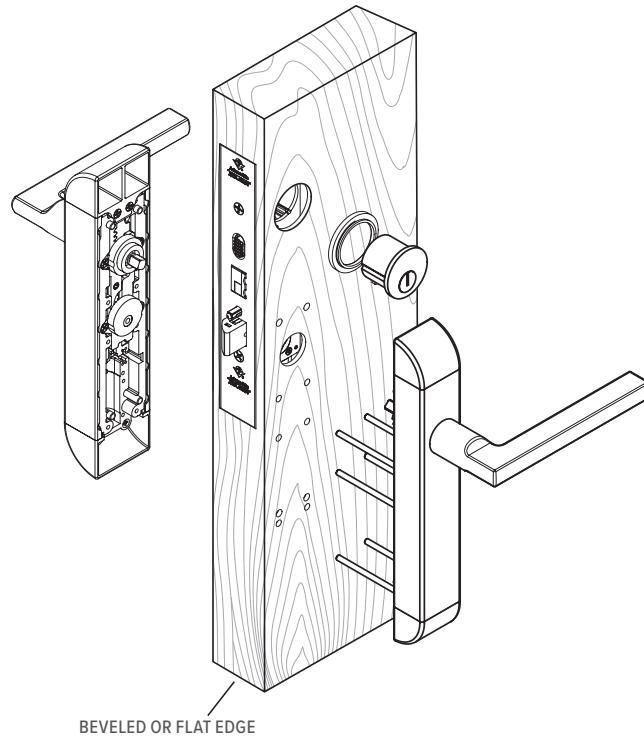


Stile Preparation

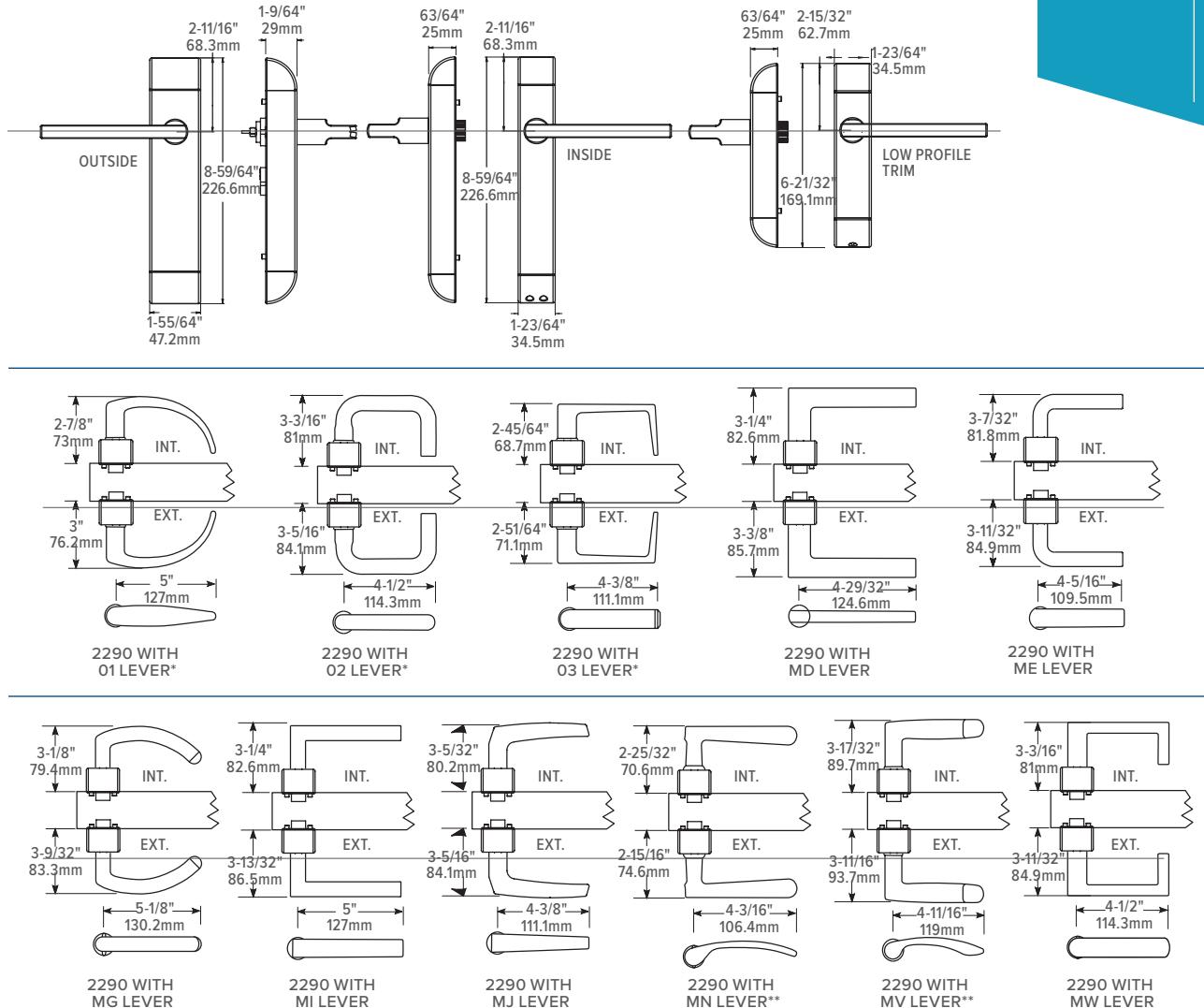
For clutched exterior Trim Set



Latch/Lock, Cylinder & Level Installation



2290 Dimensions



** Handed

How to Order & Related Products

2290 Interconnected Deadbolt/Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	STRIKE	FACEPLATE FINISH	TRIM	HANDLE DESIGNATION				TRIM AND HANDLE FINISH
2290	-3	1	1	-1	01				32D
	3 1-1/8"	0 None	0 US to match trim finish	0 None	00 No Handle				03 Bright Brass (US3)
	4 1-1/2"	1 Standard Flat	1 Clear Anodized 628	1 With Trim Set	STANDARD SERIES:				04 Satin Brass (US4)
			2 Dark Bronze Anodized 313	2 With Electrified Trim Set	01 Curve	02 Round	03 Square		10B to match Dark Bronze
			3 Black Anodized 335	3 Low Profile Trim	DESIGNER SERIES:				32 Bright Stainless (US32)
					MD	MG	MJ	MV	32D Satin Stainless (US32D)
					ME (Handed)	MI	MN	MW	

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES	ELECTRIFICATION
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn; MS4043 Cylinder Guard	2190-TDK Thick Door Kit for standard exterior trim set, TDK-4600 Thick Door Kit for low profile trim set.	EK-2190 Electrification Kit. 2190 may be ordered with electrified trim (trim option 2).



2331

Heavy Duty Deadbolt

2331 Heavy Duty Deadbolt provides a heavy duty deadbolt lock that expands into the strike for heavy duty hollow metal or wood applications.

Function

A heavy duty deadbolt for hollow metal or wood sliding doors, the 2331 Heavy Duty Deadbolt throws a massive brass bolt into its strike, then expands two stainless steel dogs to secure the door. A single turn of the key expands or retracts the bolt. There is no latch action.



Operation

360° turn of key or thumbturn extends and projects or retracts and withdraws the bolt. Key cannot be removed unless bolt is positively locked or totally retracted. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder or thumbturn with special cam dimensions. Lock accepts cylinder from either or both sides.

Features

Cylinder Backset

1-3/4" [44.5 mm] only.

Case

Measures 7/8" x 3-5/8" x 2-5/8" deep [22.2 mm x 92.1 mm x 66.7 mm]. Zinc alloy.

Bolt

Brass with stainless steel dogs, 1/2" x 1-1/2" [12.7 mm x 38.1 mm] with 3/4" [19.1 mm] horizontal throw and 11/32" [8.7 mm] expansion above and below main bolt.

Strike

1/8" x 1" x 4-11/16" [3.2 mm x 25.4mm x 119.1 mm] with 5/8" x 1-5/8" [15.9 mm x 41.3 mm] opening. Brass, with four-screw mounting. Trim finish same as faceplate.

Armored Faceplate

Measures 1" x 5-3/4" [25.4 mm x 146.1 mm]; Flat faceplate of brass. Available in a variety of finishes.

Special Cylinder Cam

Operable by any standard mortise cylinder with special cam dimensions. Cylinders with such cams can be readily obtained from most cylinder manufacturers. See CYLINDERS & ACCESSORIES section for cylinder make, thumbturn and trim ring information.

Standard Package

Individually boxed with strike and wood screws for mounting lock and strike. Cylinder and/or thumbturn available separately.

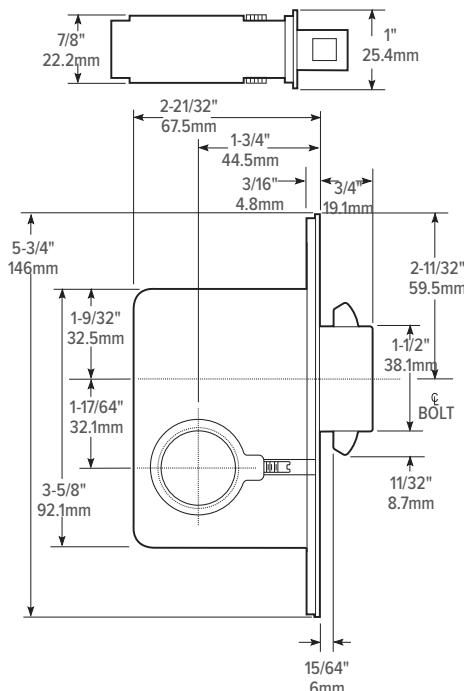
Shipping weight

2 lbs [.91 kg].

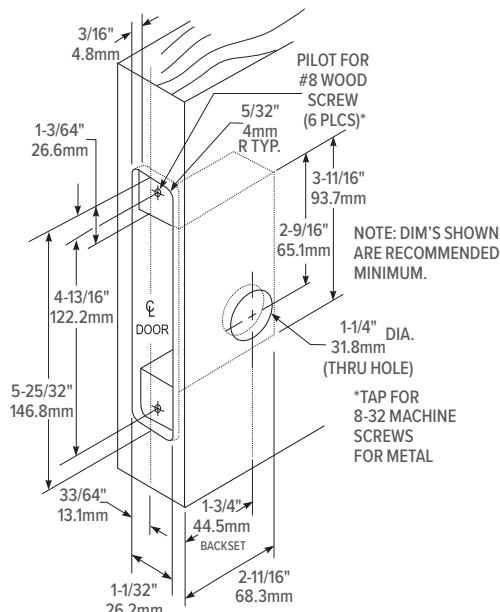
Options

- Available in choice of US3 Polished Brass (605), US26 Bright Chrome (625), US26D Satin Chrome (626), 121 to match 313 Dark bronze anodized.

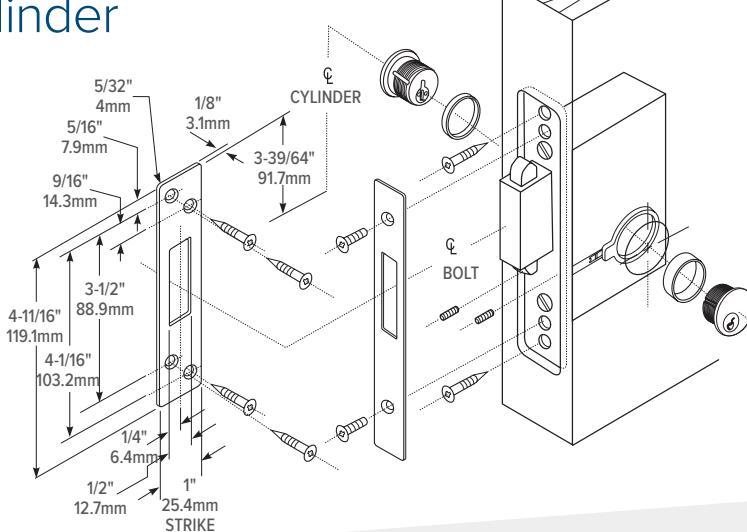
Dimensions



Wood Door Preparation



Lock & Cylinder Installation



How to Order & Related Products

2331 Heavy Duty Deadbolt: Specify quantity and the following information. Order related products separately.

MODEL	FINISH
2331	-626
	121 To match 313 Dark Bronze Anodized
	605 Bright Brass
	625 Bright Chrome
	626 Satin Chrome

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately.

CYLINDERS

Standard 1" length, 1-5/32" diameter mortise cylinder with special 2331 cam, such as 4036 Mortise Cylinder, 4066 Thumturn; MS4043 Cylinder Guard.

4070 Series

Short Throw Deadbolt (Projection Style)

4070 Short Throw Deadbolt provides security for a conventionally projected bolt in installations where the longthrow MS® Deadlock cannot be used. The smaller 4070 deadbolt offers the longest practical throw from a narrow stile.



Function

For installation where the long-throw MS® Deadlock cannot be accommodated, the smaller 4070 deadbolt offers the longest practical throw for a conventionally projected bolt from a narrow stile. Operates with one-half key turn of any standard mortise type cylinder or cylinder type thumbturn. This product is not designed for use in bottom rail.

Operation

180° turn of key or thumbturn projects or retracts the bolt. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder or thumbturn with special cam dimensions. Lock accepts cylinder from either or both sides.

Features

Cylinder Backset

7/8" [22.2 mm], 31/32" [24.6 mm], or 1-1/8" [28.6 mm] only.

Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth], depth varies by backset. Steel with corrosion-resistant plating.

Bolt

5/8" x 1-1/4" x 5/8" [15.9 mm x 31.8 mm x 15.9 mm] throw.

Strike

In metal installations, a slot in door jamb serves as strike. 4170 Trim Strike is available separately for wood installations.

Faceplate

Measures 1" x 5-9/16" [25.4 mm x 141.3 mm].

Special Cylinder Cam

Operable by any standard mortise cylinder with special cam dimensions. Cylinders with such cams can be readily obtained from most cylinder manufacturers. See CYLINDERS & ACCESSORIES section for cylinder make, thumbturn and trim ring information.

Standard Package

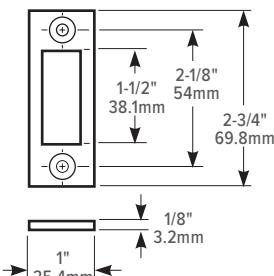
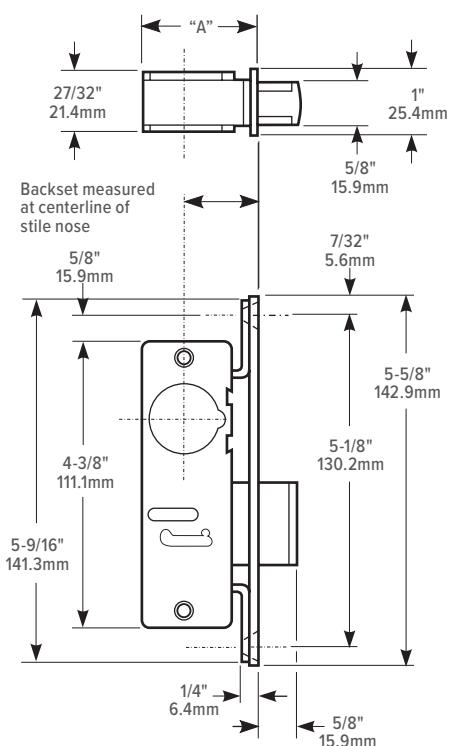
Individually boxed with machine screws for mounting. Cylinder and/or thumbturn available separately.

Shipping weight

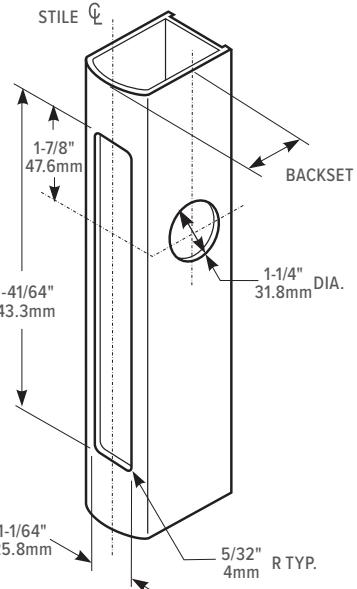
1 lb [0.45 kg].

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

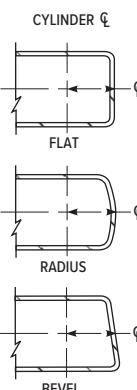
Dimensions



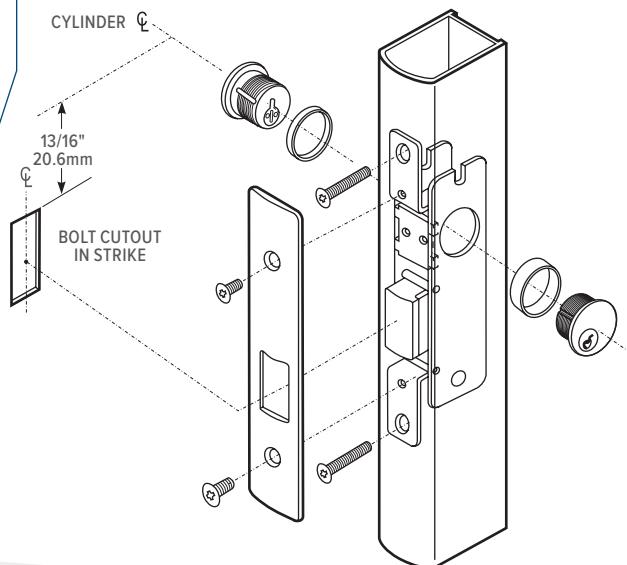
Door Preparation



HOW BACKSET IS MEASURED:



Lock & Cylinder Installation



ARMORED FACEPLATE 1" X 5-5/8"

FLAT 4070
RADIUS 4071
LH BEVEL 4072-X5
RH BEVEL 4072-X6

BACKSET	"A"
7/8"	1-37/64"
22.2mm	40.1mm
31/32"	1-5/8"
24.6mm	41.3mm
1-1/8"	1-25/32"
28.6mm	45.2mm

How to Order & Related Products

4070 Short Throw Deadbolt (Projection Style): Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	FINISH
407	2	-2	6	-628
	0 Flat	1 7/8"	0 Non-Handed*	313 Dark Bronze Anodized
	1 Radius	2 31/32"	5 LH or RHR	335 Black Anodized
	2 Bevel	3 1/8"	6 RH or LHR	628 Clear Anodized
	3 Without faceplate, without strike plate			

*Select handing for bevel faceplate only.

RELATED PRODUCTS

When purchasing this product, please consider the following related products, available separately:

CYLINDERS	ACCESSORIES
Standard 1" length, 1-5/32" diameter mortise cylinder with special 4070 cam, such as 4036 Mortise Cylinder, 4066 Thumtturn; MS4043 Cylinder Guard.	4170 trim strike for wood installations



5017

Deadlock/Deadlatch

5017 Deadlock/Latch provides the strength and deeper backset required to secure sliding wood doors.

Function

For wood framed sliding doors, the compact 5017 Wood Door Deadlock/Latch provides the same 1000 lbs strength that the MS1847 Deadlock/Latch provides for metal stiles. A deeper backset clears the recessed jamb used with wood doors. The sturdy stainless steel bolt has two important features not usually found in sliding door hardware. First, it is adjustable: a full 3/16" [4.8 mm] lengthening or shortening of bolt projection is possible by turning an exposed screw in the face of the lock. This can compensate for considerable misalignment between door and jamb. Second, the bolt is self-protecting: if the door is closed with the bolt in the locked position, the bolt will retract immediately upon contact with the jamb. This automatic latch can prevent damage or accidental lockout.



Operation

45° rotation of turn or key projects or retracts bolt. Bolt is self-protecting: if door is shut while bolt is extended, it will retract, preventing damage or accidental lock-out. Cylinder pulls available separately for keyed operation.

Features

Cylinder Backset

1-3/16" [30.2 mm]; 1-1/4" [31.8 mm] including faceplate.

Case

Measures 1/2" x 4" x 1-19/32" deep [12.7 mm x 101.6 mm x 40.5 mm deep]. Stainless steel.

Bolt

Three-ply laminated stainless steel. Designed to withstand approximately one-half ton of either horizontal or vertical force. Anti-lift bolt stops both door-from-jamb pry bar attacks and attempts to lift the door from its track.

Cylinder Pull

(4026 Pull) Five pin tumbler cylinder in zinc alloy housing. Standard finish 130 Satin Aluminum.

Lock

Stainless steel, 5/8" x 4-1/2" [15.9 mm x 114.3 mm] with radiused ends.

Mounting

By through-bolts, which also secure the inside turn and outside cylinder when installed.

Turn

1015 Turn available with 1016 blank plate shown for doors from 5/6" [21.2 mm] to 2-1/4" [57.2 mm] thickness.

Without blank plate turn available (for use with cylinder pull) on doors from 1-7/16" [36.5 mm] to 2" [50.8 mm] thickness. Standard finish 130, Satin Aluminum enamel.

Standard Package

Cylinder pull available separately.

Shipping weight

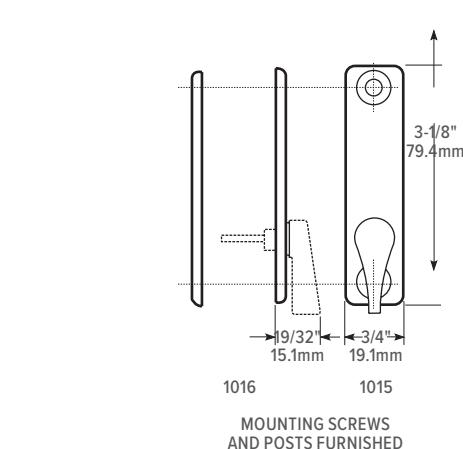
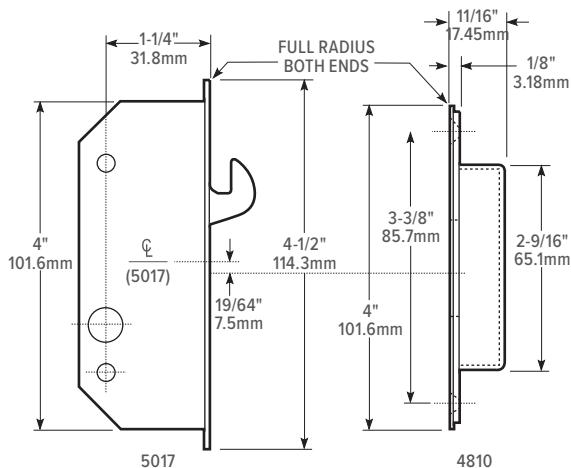
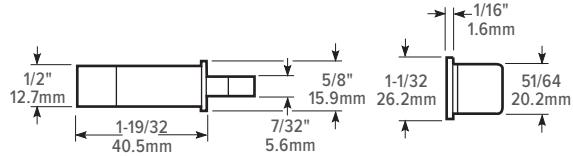
1/2 lb [0.23 kg].

Options

- 1015 Turn for inside operation is available alone (for use with 4026 cylinder pull on outside) or with a blank 1016 outside trim plate and binder posts (when cylinder is not required).
- 4810 Box Strike with wood screws available separately.

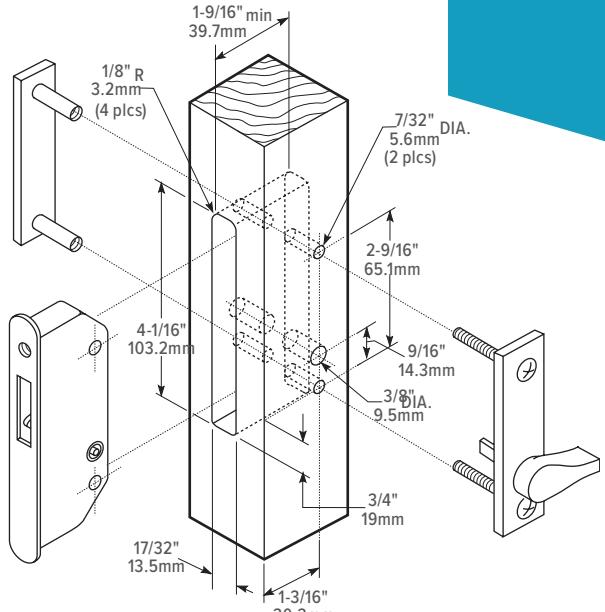
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions



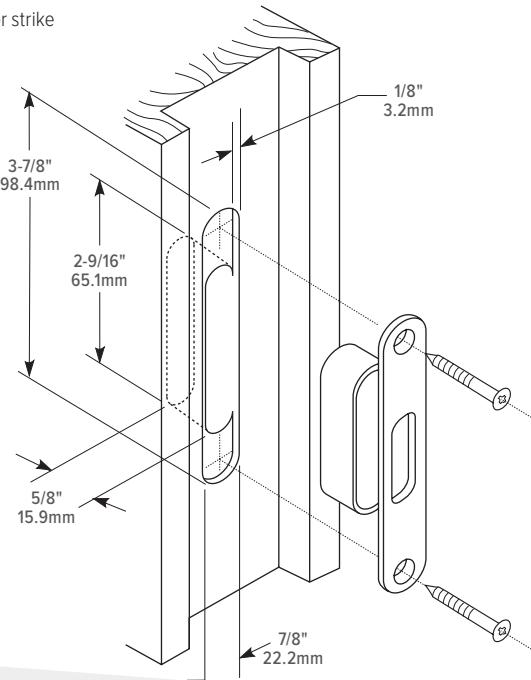
Stile Preparation

For lock, turn & cylinder pull



Jamb Preparation

For strike



How to Order & Related Products

5017 Deadlock/Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	LATCH CONFIGURATION
5017	-00
	00 Standard
	02 Self Latching

RELATED

When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES
1004, 1015, 1016 Series Turn	4024, 4025, 4026 Cylinder Pulls	4810 Strike for wood installations



5500 Deadlock

5500 Deadlock for sliding wood doors is a hardware set that includes the lockset, strike, and operators. The package features the 5017 Deadlock/Deadlatch with adjustable hookbolt and uses an over-sized thumbturn operator on the interior, coupled with an emergency override access location on the exterior escutcheon.

Function

For wood framed sliding doors, the 5500 Deadlock features the 5017 Deadlock/Latch which provides the same 1000 lbs strength that the MS1847 Deadlock/Latch provides for metal stiles. The bolt throw is easily adjusted by means of a screw in the faceplate. Mounting is by through-bolts, which also secure the inside 1004 Turn Lever and outside 1016 Blank Plate escutcheon. The package incorporates the 1004 Turn Lever, an oversized thumbturn operator on the interior, coupled with the 1016 Blank plate escutcheon with an emergency override access location on the exterior.



Operation

45° rotation of 1004 Turn Lever projects or retracts bolt. Bolt is self-protecting: if door is shut while bolt is extended, it will retract, preventing damage or accidental lock-out.

Features

Cylinder Backset

1-3/16" [30.2 mm]; 1-1/4" [31.8 mm] including faceplate.

Case

Measures 1/2" x 4" x 1-19/32" deep [12.7 mm x 101.6 mm x 40.5 mm deep]. Stainless steel.

Bolt

Three-ply laminated stainless steel.

Door Thickness

1" to 1-1/4" [25.4 mm to 31.8 mm] thick doors.

Faceplate

Measures 5/8" x 4-1/2" [15.9 mm x 114.3 mm] with radiused ends. Stainless steel.

Strike

4810 Box Strike for wood.

Operators

Inside: 1004 Turn lever is zinc alloy with stainless steel escutcheon for interior activation of lock. Spindle is hardened steel, plated for corrosion resistance.

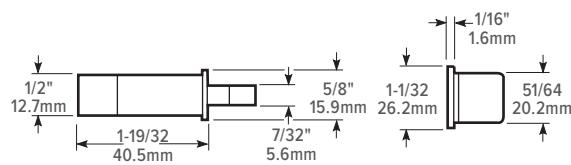
Outside: 1016 Blank plate escutcheon with emergency override access location on exterior of door.

Options

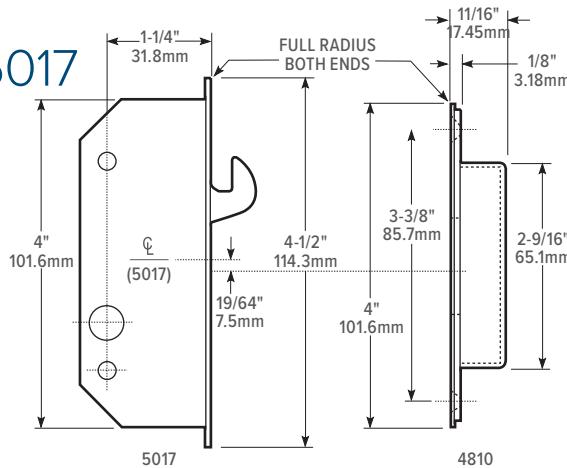
- Available in choice of finish US26D (626) Satin chrome, or powder coat 119 Black to match 335 Black anodized.

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions

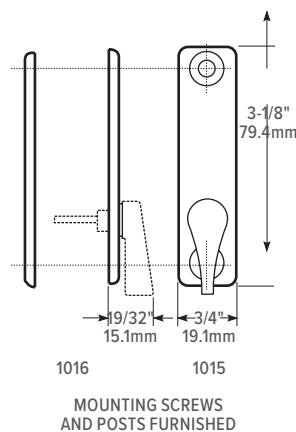


5017



4810

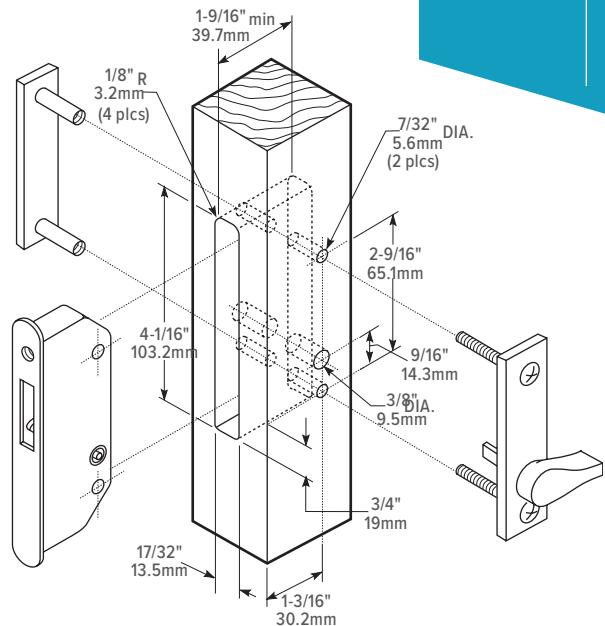
1004



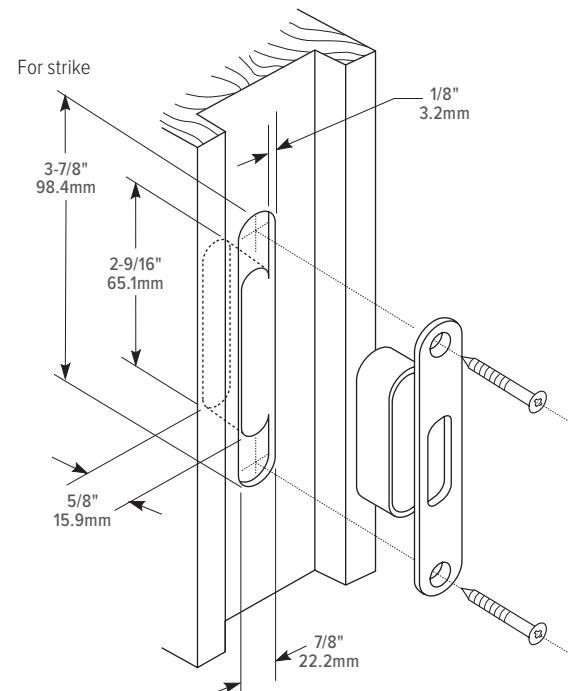
MOUNTING SCREWS
AND POSTS FURNISHED

Stile Preparation

For lock, turn & cylinder pull



Jamb Preparation



How to Order

5500 Deadlock: Specify quantity and the following information. Order related products separately.

MODEL	DOOR THICKNESS	FINISH
5500	-20	-626
	20 1-1/4" thick	626 Satin Chrome
		119 To match 335 Black Anodized

Options & Accessories

Adams Rite Deadlocks including the MS® Maximum Security Deadlocks can be ordered with a variety of related products including strike plates, cylinder accessories and trim. Different deadlocks have different installation and cylinder requirements. Please refer to product pages for more information on all available deadlock types, functions, installation requirements and complete How-to-Order guides.

For more detailed information on any of the products listed below please refer to the corresponding section of this catalog.

Accessories

4000 Series MS Deadlock Strikes

4000 surface mounted strike plate, 4001 strike plate with dust box, 4005 threshold strike, 4006 floor strike, 4505 armored strike, or 4003 ANSI strike add aesthetics and finish to strike cutouts in jambs.

4800 Series Strikes

4801 for hollow metal, 4802 for wood, or MS4804 reinforcing strike, the 4800 Series Strikes boast vertical adjustment and include a shim system for horizontal positioning for nearly any sliding door using a mortised MS1847 Deadlock or latch.

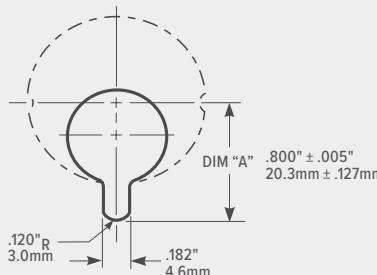
Header Bolts

4015 Threshold Bolt is a two-point lock that easily secures a single door entrance. Security for pairs of doors with single key turning is possible with the **4016 Header Bolt**. The three-point lock easily secures the entire double door entrance when working in conjunction with an MS Deadlock. **4085 Header Bolt** facilitate top-ofdoor third locking point for pairs of doors when working in conjunction with an MS pivoted bolt deadlock and 4015 Threshold Bolt in the active leaf.

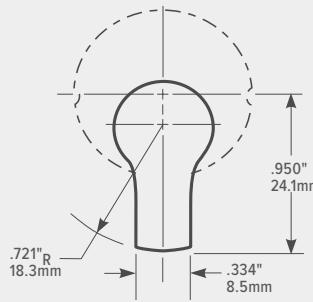
Exit Indicator

The 4089 Exit Indicator provides exit door notification for various Adams Rite deadlocks.

Dimensions of MS® Cam



Dimensions of cam to operate Adams Rite 2331 Deadlock



Cylinders

Cylinder Pulls

The 4024, 4025, 4026 Cylinder Pulls are designed to operate Adams Rite MS1847 Deadlocks and 5017 Wood Door Deadlock.

4036 Mortise Cylinder

The 4036 Mortise Cylinder is a standard 1" long, 1-5/32" diameter cylinder that provides five-pin security with most Adams Rite locks or latches.

4066 Thumbtturn

The 4066 Thumbtturn interchanges with standard 1-5/32" diameter mortise cylinder and operates locks or latches without a key.

MS4043 Cylinder Guard

The MS4043 Cylinder Guard is a hardened-steel, free swiveling ring to protect cylinder from vandalism such as prying or twisting. Dimensions of MS cam to operate Adams Rite deadlocks, excluding 4070 Deadlock and 2331 Deadlock.

Deadlatches





Aluminum



Swinging Door



Aperio™



FC



Battery Product



MS® Prep

DL100

Wireless Deadlatch

The most advanced electrified deadlatch, with Aperio® wireless technology, for aluminum stile openings.

Function

The DL100 Wireless Deadlatch seamlessly combines electrified locking hardware with access control system while working within standard aluminum stile entrance door preparations. Always operable from the inside via handle or paddle device. Entry via the integrated card reader or mortise cylinder. The standard fail secure DL100 Wireless Deadlatch with integrated locked state, latchbolt, and tamper monitoring is powered by 2 AA lithium batteries. Units are equipped with a quick connect plug-in type connector. Interchangeable without stile modification for MS® Deadlocks or Adams Rite Deadlatches. 1-3/4" [44.5 mm] minimum door thickness required. Real time communication with DPS, tamper, REX and battery health monitoring and control with support for HID multiCLASS SE and NFC/BLE mobile access card technologies.



Operation

Entry is achieved via key override, mobile or card credentials while free egress is achieved by operating the inside lever or paddle to release the spring-loaded latchbolt. Available in a fail-secure configuration only. Lock accepts any standard 1" mortise cylinder with MS® cam, available separately.

Certifications

- UL 294 Listed – Indoor Rated
- UL 294 Salt Spray Test Compliant
- Tested to IP65 (Reader Only)
- FCC Part 15 & Industry Canada Compliant
- CE RED – Radio Equipment Directive – 2014/53/EU

Features

All Models

- 2.4 GHz Aperio wireless technology
- Integrates with most existing access control systems and credentials
- Audit trail limited by access control system
- Battery operated; (2) AA Lithium

Deadlatch Features

- Non-handed
- Fail secure operation (standard)
- Integrated locked state, latchbolt, and tamper monitoring
- Universal compatibility with any existing MS® door prep
- Fully finished faceplate and strike plate

Tamper resistant

- Low energy EcoLatch® motorized actuator technology

Lock Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], and 1-1/2" [38.1 mm]

Case

Steel with corrosion-resistant plating. Measures 15/16" x 5-13/16" x depth [23.8 mm x 147.6 mm x depth]. Depth varies by backset.

Latchbolt

Stainless steel. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.

Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

Cylinder

Standard 1" mortise cylinder accepted

Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Both flat and radius faceplates are supplied. Flat faceplates can also be adjusted in the field for right or left beveled edge doors.

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Strike Plate

Pick from optional strikes: **4304**

Surface mounted strike for easy retrofits. **4901-01 Mortised-flush** when covering existing MS® deadlock preparation or for new applications. **4901-02 Mortised-radius** for pairs of doors and with extended lips of center-hung or thick door applications.

Deadlatch Reader Features

- Supports HID multiCLASS SE® card technologies
- Supports NFC & BLE mobile access credentials
- Bi-color LED visual status indicators; Red/Amber or Green/Amber

Standard Package

Individually boxed with strike plate, flat and radius faceplates, and mounting screws. Supplied with 4581 Universal Cam Plug to work with specified handles or paddle operators. Cylinder, paddle, handle available separately, (unless purchasing a Solution Set, see Options).

Options

- Bundled with 4591 REX Paddle. See How to Order for ordering information.*
- * Only available through ACP/CI channel

Specifications

Wireless Access Control

Minimal field configuration for quick, easy wireless deployments that eliminate the cost and inconvenience of hardwiring the door.

Fully-encrypted AES 128-bit wireless communication between the DL100 lock and Aperio® hub ensures data security.

The Aperio wireless hub connects to an access control system with typical access control cabling or via an ethernet connection.

Compatible Aperio Hub Models

AH20, AH30, AH40



4591 Deadlatch Paddle

Electrical

- (2) "AA" lithium batteries (included); Use of other types of batteries, such as alkaline, will significantly decrease battery life.

- microUSB port for emergency power

Environmental

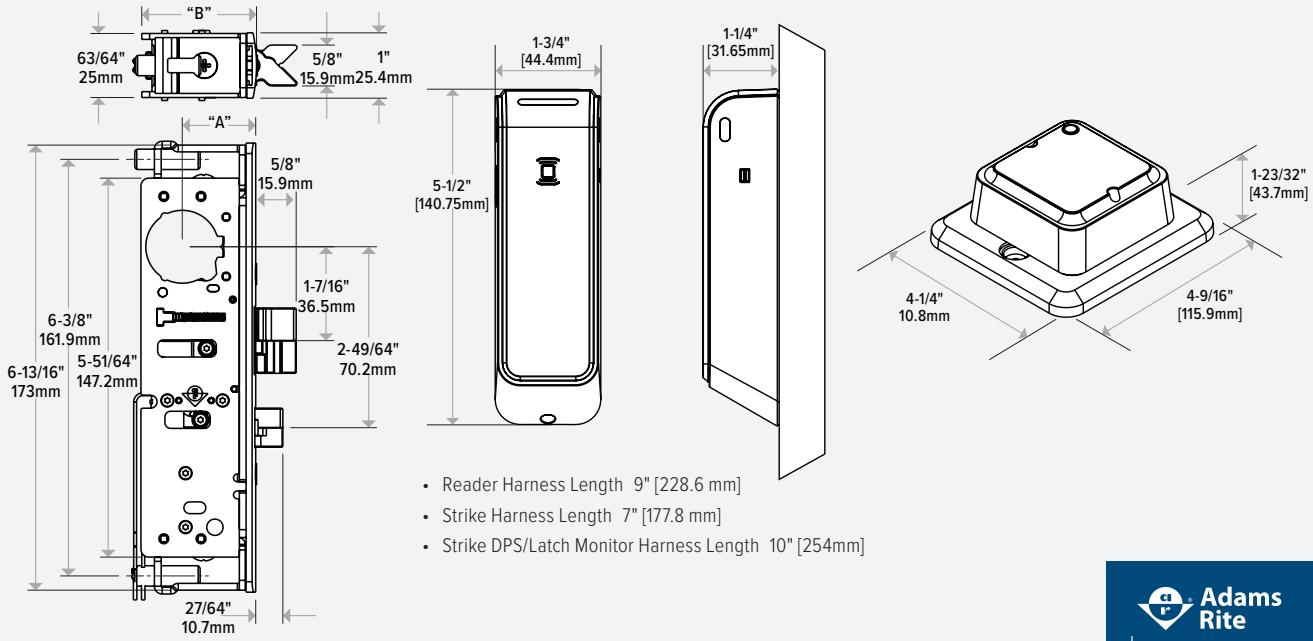
- Operating Temperature (lock & reader): 14° to 140° F [-10° to 60° C]
- Operating Humidity (lock & reader): 0 to 93% relative humidity non-condensing
- Tested to IP65 (Reader only)

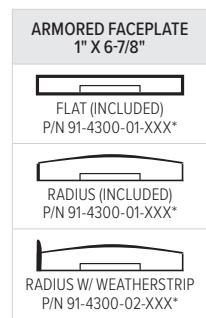
Credential Support

- High Frequency (13.56 MHz): HID iCLASS®, HID iCLASS SE® (SIO®-enabled), HID iCLASS® Seos®, HID MIFARE® SE, HID DESFire® EV1 SE, MIFARE CLASSIC, DESFire® EV1, DESFire® EV2 (legacy mode)
- Low Frequency (125 kHz): HID Prox®, AWID, EM4102, IOProx
- Mobile Access Credentials: NFC, HID BLE Mobile Access, SEOS iOS Apple Wallet

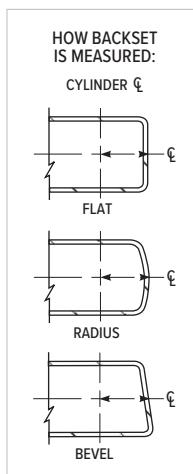
NOTE: The DL100 is available as either a pre-paired reader and hub kit (no certification required) or as a field configurable component (requires Aperio® Certified Integrator certification). Pre-paired kits support limited features, field configured devices are required in order to support all options. Visit IntelligentOpenings.com to learn more.

Dimensions



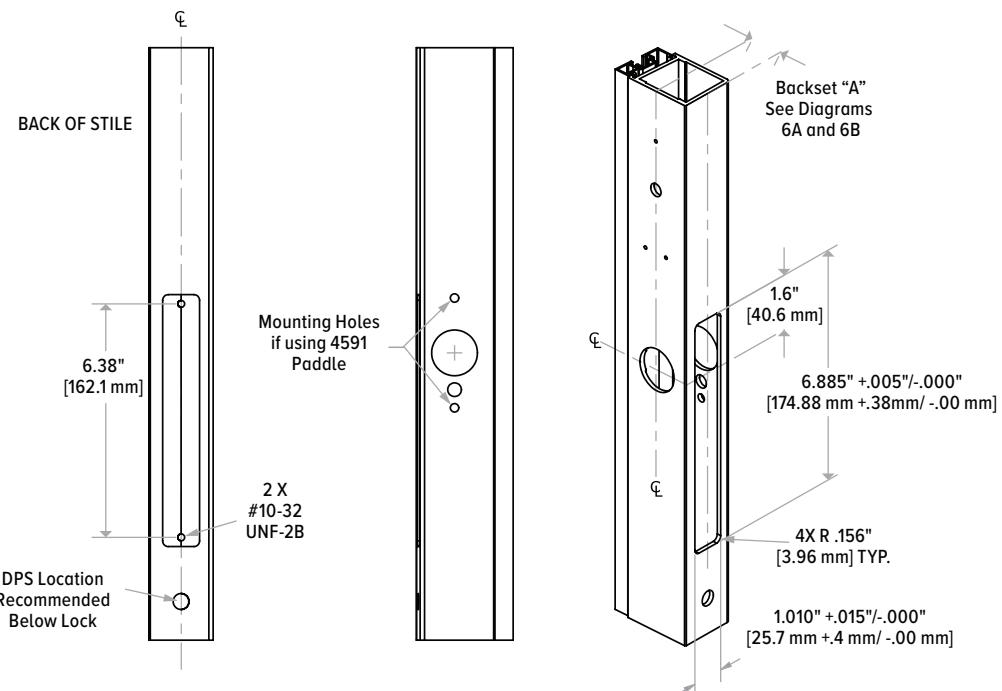


BACKSET A	DIM. B
31/32"	1-19/32"
24.6mm	[40.5mm]
1-1/8"	1-49/64"
28.6mm	[44.8mm]
1-1/2"	2-9/64"
38.1mm	[54.4mm]

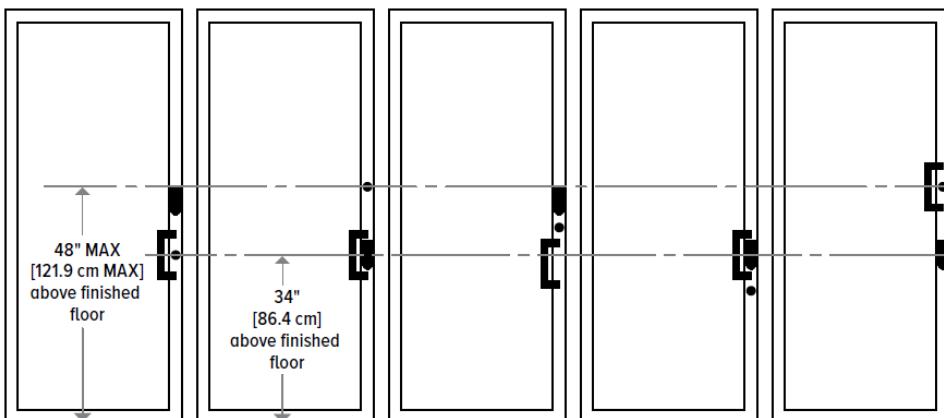


*Flat faceplate can be adjusted for right or left beveled edge doors. Radius weatherstrip is optional. 91-4300-01-XXX Faceplate kit includes both flat and radius faceplates.

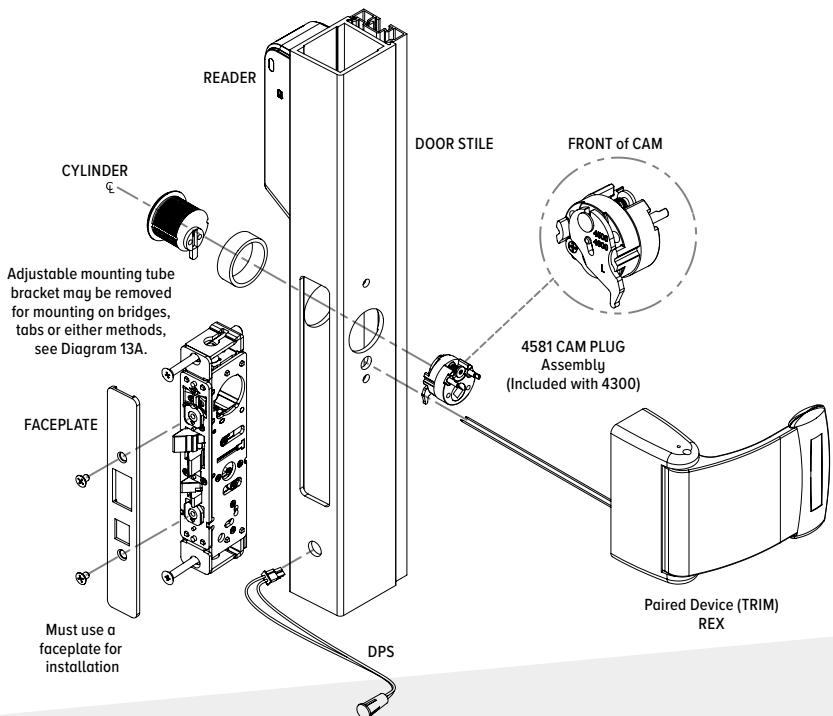
Stile Preparation



ADA Cylinder Height



Latch Paddle & Cylinder Installation



How to Order & Related Products

DL100 Wireless Deadlatch: Specify quantity and the following information. Order related products separately.

SERIES	BACKSET	STRIKE	STRIKE SHAPE/ LIP LENGTH	OPTIONS	CARD TECHNOLOGY	FACEPLATE FINISH
DL100	-3	2	01	H	-IPS	-628
Monitoring & DPS are Standard Features	2 31/32"	1 Surface Mount (4304)	01 Flat/ Standard Jamb	(blank)* Field configured to work with AH20, AH30, or AH40 wireless hubs	IPS HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESFire® EV1SE, MIFARE Classic, MIFARE DESFire EV1, NFC-enabled Mobile Phones: HID Mobile Access (NFC), Seos Apple Wallet (NFC)	313 Dark Bronze Anodized
	3 1-1/8"		02 Radius Standard Stiles		IPEXXXXX [†] Same as IPS but with factory loaded HID Elite Credential	335 Black Anodized
	4 1-1/2"	2 Mortised (4901)	17 Flat/Center Hung 4" Jamb	H Factory pre-prepared to work with AH20 Wiegand 1:1 hub	BIPSXXXXX** [†] HID iCLASS, HID iCLASS SE (SIO-enabled), HID iCLASS Seos, HID MIFARE SE, HID DESFire EV1 SE, MIFARE Classic, MIFARE DESFire EV1, NFC & BLE-enabled Mobile Phones: HID Mobile Access (BLE and NFC), Seos Apple Wallet (NFC)	628 Clear Anodized
			21 Flat/Center Hung 4-1/2" Jamb	A (push left)* ^	BIPEXXXXX** [†] Same as BIPS but with factory loaded HID Elite Credential	
				B (push right)* ^		
				C (pull left)* ^		
				D (pull right)* ^		

* Only available through ACP/CI channel. ^ REX switch only available on PUSH configurations ** XXXXX is a unique or customer specific key that is only re-orderable for that specific company.

† HID Authorization form will need to be filled out and signed by the end user who has authority of the ELITE KEY.

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES
4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handles	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn, MS 4043 Cylinder guard	4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes, DL100-DRK Door Repair/Retrofit Plate, APD10USB Aperio Radio Dongle*, ACC10 Credential Test Cards, HSA-HPK hard powered kit * Only available through ACP/CI channel



Aluminum



Swinging Door



Electrified Product



MS® Prep

Steel Hawk® 4300

Electrified Deadlatch

The Steel Hawk® 4300 Electrified Deadlatch is a non-handed, narrow backset, electrified deadlatch designed for easy integration with access control systems.

Function

The 4300 Electrified Deadlatch seamlessly combines electrified locking hardware with access control while working within standard narrow stile aluminum entrance door preparations. Always operable from the inside via handle or paddle device. Entry via keyed mortise cylinder or access control device such as keypad or card reader. Fail secure lock with optional form "C" latch status monitor. The standard fail secure 4300 Electrified Deadlatch operates on 12, 16, or 24 VDC power and is rated for continuous duty. Units are equipped with a quick connect plug-in type connector. Interchangeable without stile modification for MS® Deadlocks or Adams Rite 4500 and 4900 Deadlatches. 1-3/4" [44.5 mm] minimum door thickness required.



Operation

Turn key, apply voltage, or operate handle or paddle to release the spring-loaded latchbolt. Electrically-rated for continuous duty for timed applications. Easily interfaces with other access control system elements. Available in fail secure configuration only. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.

Certifications

- UL 294 Listed

Features

Cylinder Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], and 1-1/2" [38.1 mm].

Case

Steel with corrosion-resistant plating. Measures 15/16" x 5-13/16" x depth [23.8 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

Latchbolt

Stainless steel. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.

Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Both flat and radius faceplates are supplied. Flat faceplates can also be adjusted in the field for right or left beveled edge doors.

Strike

Pick from optional strikes. 4304 surface mounted strike for easy retrofits. Specify 4901-01 mortised-flush version when covering existing MS® deadlock preparation or for new applications. 4901-02 strike is available with radius profiles for pairs of doors and with extended lips of center-hung or thick door applications.

Standard Package

Individually boxed with strike plate, flat and radius faceplates, and mounting screws. Supplied with 4581 Universal Cam Plug to work with specified handles or paddle operators. Cylinder, paddle, handle available separately.

Shipping Weight

1-1/4 lbs [0.57 kg].

Product Note

The 4600M with monitoring switch option cannot be used in conjunction with the 4300 Electrified Deadlatch.

Electrical

Voltage

Field-selectable to match power source of 12, 16, or 24 VDC.

Current Draw/Amps

0.44A at 12VDC
0.458A at 16VDC*
0.23A at 24VDC

*Required 16 VDC adapter (P/N VA 7400-16VDC)

Options

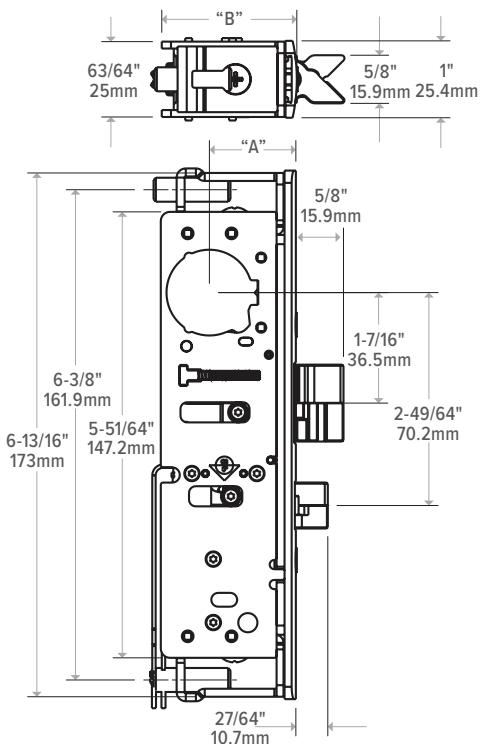
- Backset, strike, and finish must be specified when ordering.
- Optional form "C" latch status monitoring available.

RITE Pack®

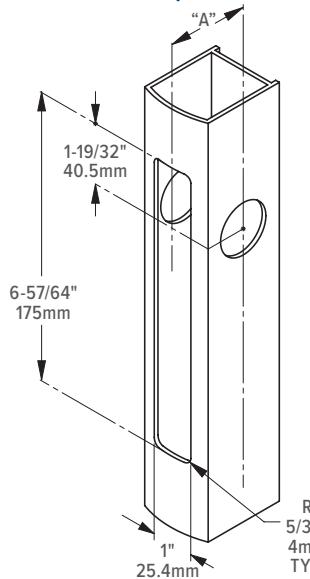
Pairs the electrified deadlatch with multiple faceplates in a single package. Faceplates Included: 2 flat faceplates, 2 radius faceplates: one each of 628 Clear and one 313 Dark bronze anodized finish.

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions



Stile Preparation



ARMORED FACEPLATE
1" X 6-7/8"

FLAT (INCLUDED)
P/N 91-4300-01-XXX*

RADIUS (INCLUDED)
P/N 91-4300-01-XXX*

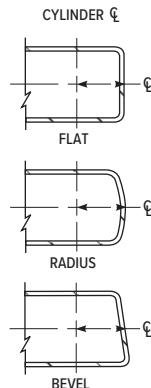
RADIUS W/ WEATHERSTRIP
P/N 91-4300-02-XXX*

*Flat faceplate can be adjusted for right or left beveled edge doors. Radius weatherstrip is optional. 91-4300-01-XXX Faceplate kit includes both flat and radius faceplates.

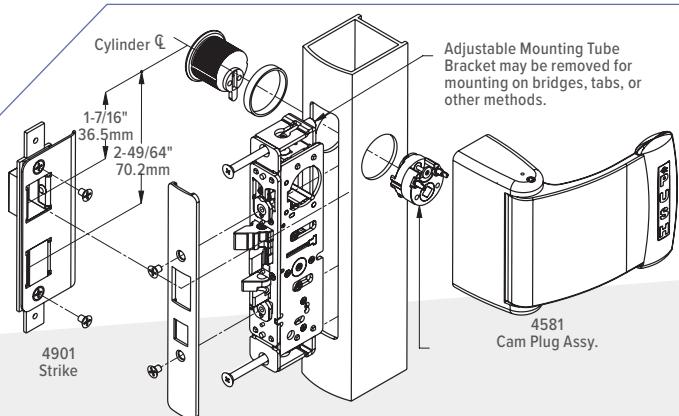
BACKSET A DIM. B

31/32"	1-19/32
24.6mm	40.5mm
1-1/8"	1-49/64"
28.6mm	44.8mm
1-1/2"	2-9/64"
38.1mm	54.4mm

HOW BACKSET IS MEASURED:



Latch Paddle & Cylinder Installation



How to Order

Steel Hawk® 4300 Electrified Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	MONITORING	STRIKE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
4300	-3	M	-2	01	-628
	2 31/32"	0 None	1 Surface Mount (4304)	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	3 1-1/8"	M Monitored	2 Mortised (4901) 4-5/8"	02 Radius/Standard Stiles*	335 Black Anodized
	4 1-1/2"			17 Flat/Center Hung 4" Jamb*	628 Clear Anodized
				21 Flat/Center Hung 4-1/2" Jamb*	

* See ACCESSORIES for available 4901 strike options.

4300 RITE Pack: Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	MONITORING*	STRIKE	RITE PACK
4300	-3	0	-1	RP
	2 31/32"	0 None (Standard)	1 Surface Mount (4304)	
	3 1-1/8"		2 Mortised (4901) 4-5/8"	

* Monitoring not available with RITE Pack.

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES	POWER
4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handles	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn MS 4043 Cylinder guard	4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes	4605 Transformer, 4603 Rectifier, and 4612 Power Transfer Device



Aluminum



Swinging Door

MS® Prep

4510

Standard Duty Deadlatch

4510 Standard Duty Deadlatches provide flexible traffic control during and after business hours.

Function

The 4510 Series Standard Duty Deadlatch offers flexibility of traffic control during and after business hours. A reverse turn of the key while the bolt is held retracted retains the bolt to allow two-way traffic for healthcare, financial institutions, retail, and other applications that require free entrance at certain times and exit-only at other times. Interchangeable, without stile modification, with any MS1850S Deadlock of same backset and faceplate shape. They do not, however, provide the same maximum security level as the MS® Deadlock.

Operation

Turn key or operate handle or paddle to retract spring-loaded latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard mortise cylinder with MS® cam, available separately. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumturn, available separately. Lock accepts cylinder from either or both sides.



Features

Cylinder Backset

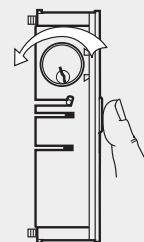
7/8" [22.2 mm], 31/32" [24.6 mm], 1-1/8" [28.6 mm] or 1-1/2" [38.1 mm].

Case

Steel with corrosion-resistant plating. Measures 1" x 5-13/16" x depth [25.4 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.



Latchbolt

All metal with hardened steel internal pins. Handing is reversible without special tools. Measures 1/2" x 1" x 1/2" [12.7 mm x 25.4 mm x 12.7 mm] throw.

Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm].

Strike

Standard strike furnished is 4902-01 for flat jamb where door closes flush or nearly flush. Available separately: radius strike for opposite stile in paired doors; longer strike (4901) to cover slot strike of MS lock; long lip strikes for center hung doors.

Standard Package

Individually boxed with strike and mounting screws. Cylinder, paddle, handle available separately.

Shipping Weight

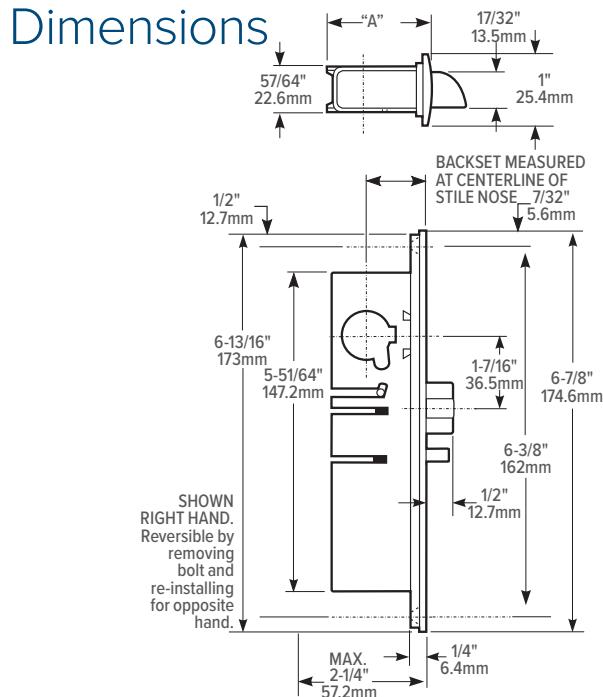
1-1/4 lbs [.57 kg]. Also available in a 25-unit pack for volume customers. Please contact factory for more information.

Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering.
- Available without faceplate or strike plate, select 4513.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

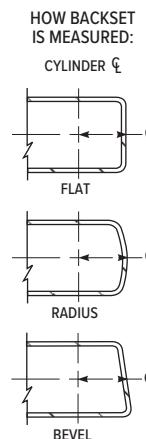
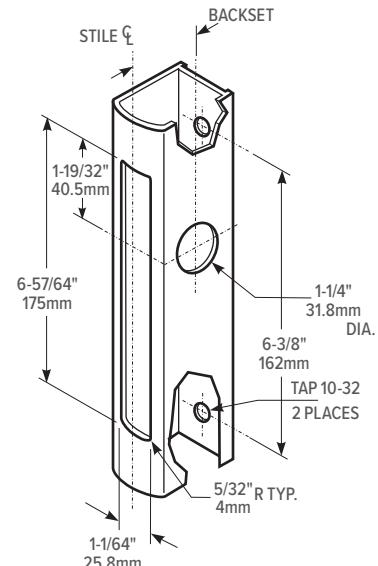
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions



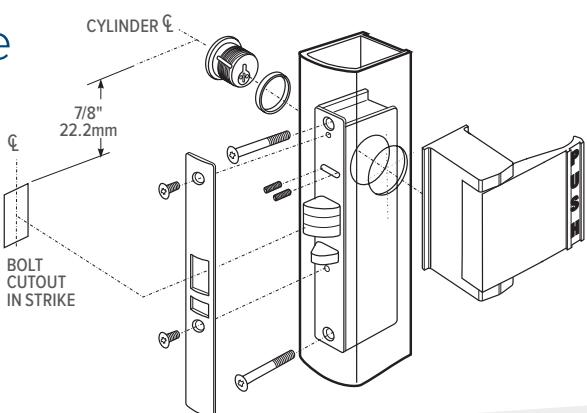
Stile Preparation

Identical to MS1850 Series
(Also see prep for 4590 Paddle)



BACKSET	"A"	ARMORED FACEPLATE 1" X 6-7/8"
7/8" 22.2mm	1-33/64" 38.5mm	
31/32" 24.6mm	1-19/32" 40.5mm	
1-1/8" 28.6mm	1-49/64" 44.8mm	
1-1/2" 38.1mm	2-9/64" 54.4mm	
		FLAT 4510
		RADIUS 4511
		RADIUS W/ WEATHERSTRIP 4511W
		LH BEVEL 4512-X5
		RH BEVEL 4512-X6

Latch Paddle & Cylinder Installation



How to Order & Related Products

4510 Standard Duty Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
451	1	-3	6	-2	01	-628
	0 Flat	1 7/8"	5 LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	1 Radius	2 31/32"	6 RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stiles	335 Black Anodized
	1W Radius w/ Weatherstrip	31-1/8"			17 Flat/Center Hung 4" Jamb	628 Clear Anodized
	2 Bevel	4 1-1/2"			21 Flat/Center Hung 4-1/2" Jamb	
	3 Without faceplate, without strike plate					

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

ELECTRIC STRIKES	TRIM	CYLINDERS	ACCESSORIES
7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes	3090-150, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn MS4043 Cylinder guard	4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes



4530

Standard Duty Deadlatch

4530 Standard Duty Deadlatches provide flexible traffic control during and after business hours. Designed to retrofit into the prep of older MS1850 Deadlocks and discontinued 4250 Deadlatches.

Function

The 4530 Standard Duty Deadlatch offers flexibility of traffic control during and after business hours. A reverse turn of the key while the bolt is held retracted retains the bolt to allow two-way traffic for healthcare, financial institutions, retail, and other applications that require free entrance at certain times and exit-only at other times. 4530 Deadlatches are designed to fit without alteration, the stile cutout for older MS1850 Series Deadlocks and discontinued 4250 Deadlatches of same backset.



Operation

Turn key or operate handle to retract spring-loaded Latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumturn, available separately. Lock accepts cylinder from either or both sides.

Features

Cylinder Backset

7/8" [22.2 mm], 31/32" [24.6 mm], or 1-1/8" [28.6 mm] only.

Case

Steel with corrosion-resistant plating. Measures 1" x 5-13/16" x depth [25.4 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.



Latchbolt

All metal with hardened steel internal pins. Handing is reversible without special tools. Measures 1/2" x 1" x 1/2" [12.7 mm x 25.4 mm x 12.7 mm] throw.

Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

Faceplate

Measures 1-1/4" x 7-13/32" [31.8 mm x 188.1 mm].

Strike

Standard strike furnished is 4901-01 for flat jamb.

Standard Package

Individually boxed with strike plate and mounting screws. Cylinder, paddle, handle available separately.

Shipping Weight

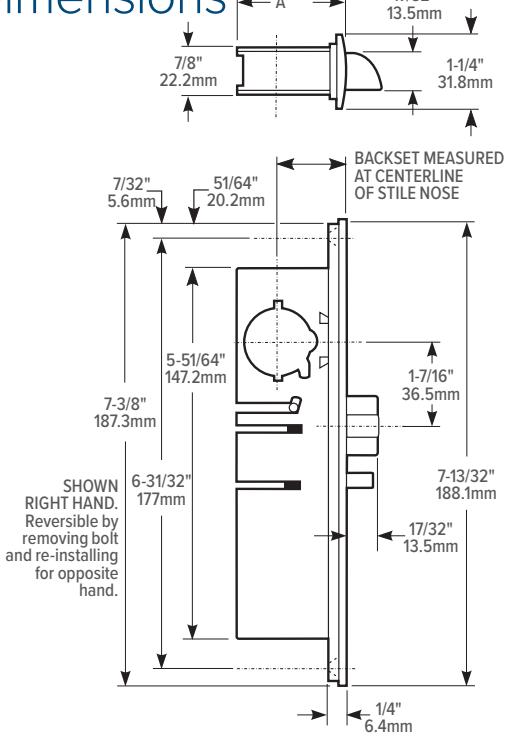
1-1/4 lbs [0.57 kg]

Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering.
- Available without faceplate or strike plate, select 4533.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

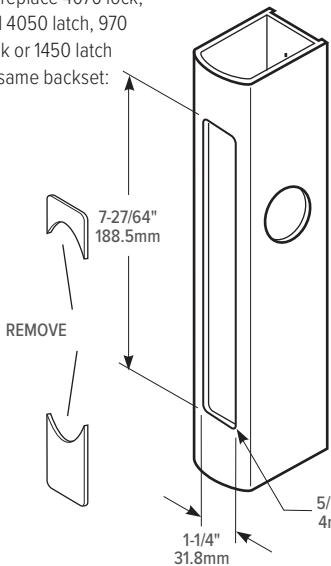
Dimensions



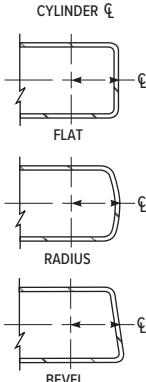
Stile & Jamb Preparation

To replace old MS1850 lock or 4250 latch of same backset: **No Preparation Required**

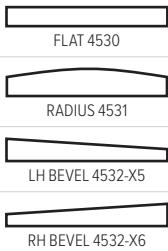
To replace 4070 lock,
old 4050 latch, 970
lock or 1450 latch
of same backset:



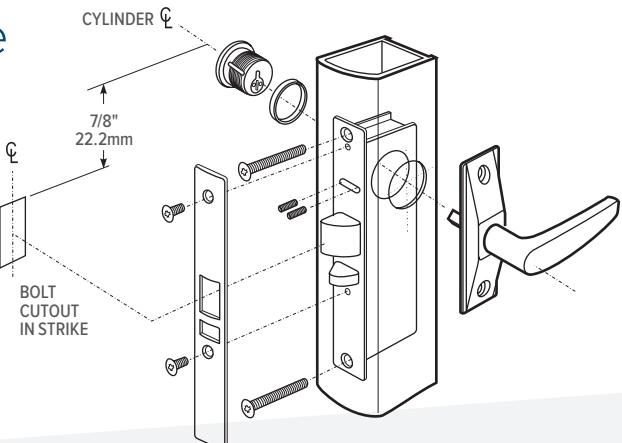
HOW BACKSET
IS MEASURED:



ARMORED FACEPLATE
1-1/4" x 7-13/32"



Latch Paddle & Cylinder Installation



BACKSET	"A"
7/8" 22.2mm	1-33/64" 38.5mm
31/32" 24.6mm	1-19/32" 40.5mm
1-1/8" 28.6mm	1-49/64" 44.8mm

How to Order & Related Products

4530 Standard Duty Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/ LIP LENGTH	FACEPLATE FINISH
453	1	- 3	6	- 1	01	- 628
0 Flat	1 7/8"	5	LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	2 31/32"	6	RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stiles	335 Black Anodized
	3 1-1/8"				17 Flat/Center Hung 4" Jamb	628 Clear Anodized
					21 Flat/Center Hung 4-1/2" Jamb	

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

ELECTRIC STRIKES	TRIM	CYLINDERS	ACCESSORIES
7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes	3090-150, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn MS4043 Cylinder guard	4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes



4781

Two-Point Deadlatch with Paddle

The 4781 Two-Point Deadlatch latches to header and threshold allowing both door leaves to remain active. It is designed for paired out-swinging narrow stile doors, but is also suitable for single doors.

Function

Designed for paired out-swinging narrow stile doors, but also suitable for single doors. Instead of operating a conventional horizontal-throw latchbolt, the 4781 Two-Point Deadlatch latches to header and threshold. This allows both door leaves to be "active". There is no need to pin one door with flush bolts or other devices. The paddle is a modified version of the 4591 Deadlatch Paddle and the concealed vertical rod mechanism is the same as used in Adams Rite's 8600 Series Exit Devices. Note however, that the 4781 Two-Point Deadlatch is not intended to substitute for an exit device, which must have a door-spanning bar.

Operation

Inside: Push paddle to unblock top bolt and withdraw bottom bolt. Continuing to push will open the door in a very natural, ergonomically-friendly motion. Paddle stroke is approximately 1-1/2" [38.1 mm] at extreme end. Rod adjustment allows paddle (centerline) to be mounted at any height from 30 to 44 inches above the finished floor.

Outside: If key entry operation is required, any standard mortise cylinder with MS® cam can be installed through an 8650 Cylinder Escutcheon. 3080 Entry Trim compatible with Adams Rite exit devices can be specified in the version used for CVR devices.



Features

Paddle Dogging

Turning hex screw in paddle escutcheon holds paddle down, leaving door free-swinging.

Strike

A flanged post installed on the header has generous location adjustment to allow for door misalignment, sag, bumpers, etc. Designed to prevent forced entry by bowing the door.

Threshold Bolt

Stainless hexagonal steel bolt requires only a 1/2" [12.7 mm] diameter hole in threshold for a strike.

Top Bolt

Similar to door latches on some automobiles and aircraft, the

U-shaped bolt wraps around the strike post to deadlock position, which also deadlocks the bottom bolt through a gear train at the center of the rod assembly.

Door Size

Standard unit will fit doors up to 66" [1676.4 mm] above the paddle height. 110" [2794 mm] door if paddle is at max 44" [1117.6 mm] height.

Standard Package

Individually boxed with mounting screws and installation instructions.

Shipping weight

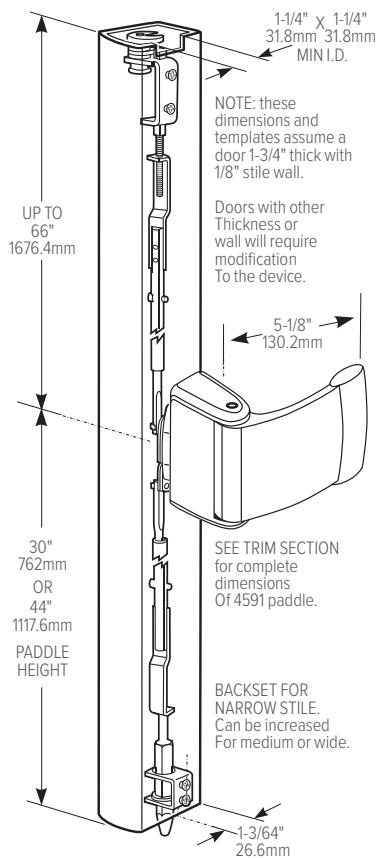
3 lbs [1.36 kg].

Options

- Can be exit only or allow key access from outside with use of 8650 Cylinder Escutcheon. 3080 Entry Trim can also be specified in the version used for CVR devices.
- For taller doors, order 8655 Tall Door Kit, which allows up to 97" above paddle.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized, US26D (626) Satin chrome.

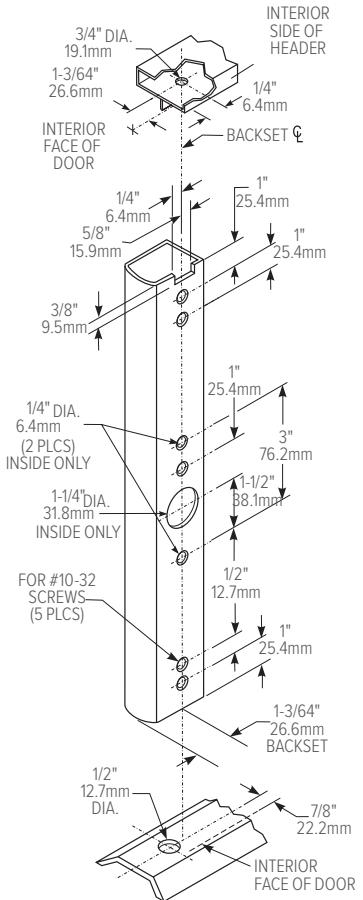
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions

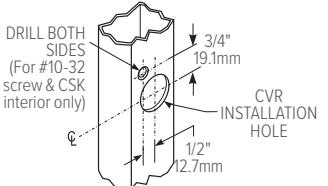
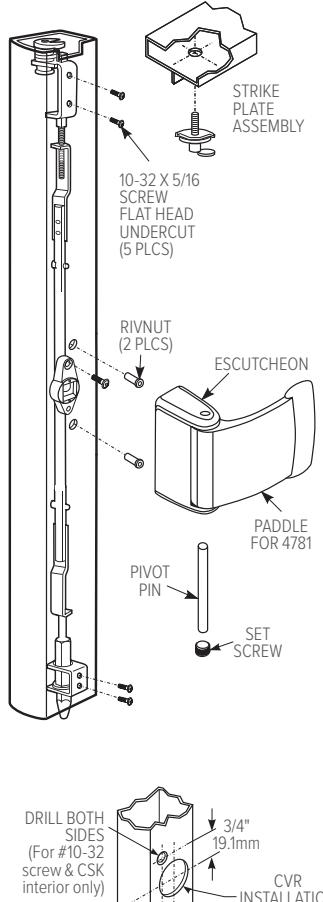


Door Preparation

with 8650 Cylinder Escutcheon*



Installation



*OTHER CYLINDER ESCUTCHEONS for use with 17mm profile cylinders (in 44 or 55mm thick doors only) are also available and require different door prep than shown.

How to Order & Related Products

4781 Two-Point Deadlatch with Paddle: Specify quantity and the following information. Order related products separately.

MODEL	ROD TYPE	OPERATION	PADDLE FINISH
4781	T	- 021	- 628
	T Top Rod Only	021 Push to Left	313 Dark Bronze Anodized
	— Standard Rod	041 Push to Right	335 Black Anodized
			628 Clear Anodized
			US26D Satin Chrome

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDERS	ACCESSORIES
3080 Series Entry Trim	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder MS4043 Cylinder guard	8650 Cylinder Escutcheon, 8655 Tall Door Kit



Aluminum



Swinging Door



MS® Prep

4900

Heavy Duty Deadlatch

4900 Heavy Duty Deadlatch provides flexible traffic control and easy installation.

Function

Flexibility of traffic control and easy installation is offered by 4900 Series Heavy Duty Deadlatches. A key-controlled bolt hold-back feature allows for two-way traffic for applications which require free entrance at certain times and exit-only at other times. This allows a "locked" entrance to be used as an exit by visitors already in the building. 1-3/4" [44.5 mm] minimum door thickness required. Interchangeable, without stile modification, with any MS1850S deadbolt of same backset and faceplate shape. Also retrofits to existing 4510 and discontinued 4700 Deadlatch preparations.

Operation

Turn key or operate handle or paddle to retract spring-loaded latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



Features

Cylinder Backset

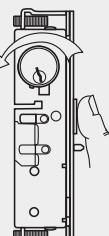
31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" 38.1 mm].

Case

Steel with corrosion-resistant plating. Measures 7/8" x 5-13/16" x depth [22.2 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page). Screw-fastened tube spacer brackets allow for cleaner removal when tab mounting.

Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.



Latchbolt

Solid brass. Handing is easily reversible without special tools. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.

Auxiliary Linchpin

Stainless steel. Deadlocks latch bolt to prevent "loiding" or case-knife entry.

Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Both flat and radius faceplates are supplied. Flat faceplates can also be adjusted in the field for right or left beveled edge doors.

Strike

Standard strike furnished is 4902 for flat jamb where door closes flush or nearly flush. Specify 4901 for retrofit installations. Also available: radius strike for opposite stile in paired doors and long lip strikes for center-hung doors.

Standard Package

Individually boxed with strike plate, flat and radius faceplates, and mounting screws. Cylinder, paddle, handle available separately.

Shipping Weight

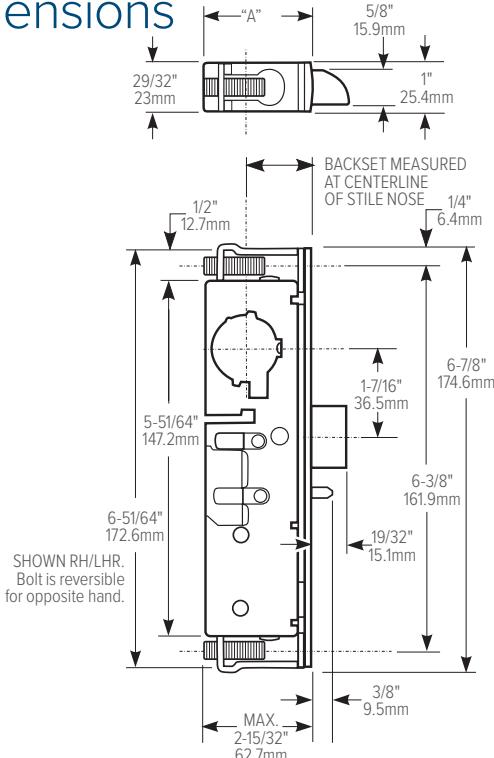
1-1/4 lbs [0.57 kg].

Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering. See 4920AN Heavy Duty Deadlatch (ANSI Size) for wood and hollow metal door applications.
- Available without faceplate or strike plate, select 4913.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

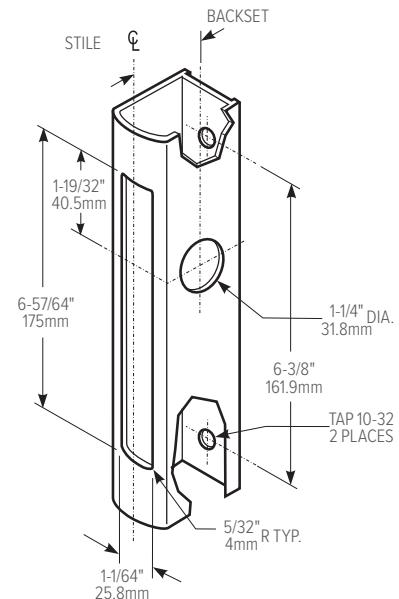
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.

Dimensions

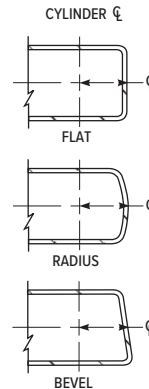


Stile Preparation

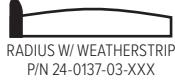
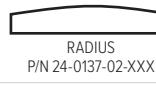
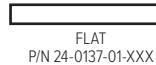
Identical to MS1850A or MS1850S Series
(See also prep for 4591 paddle).



HOW BACKSET
IS MEASURED:



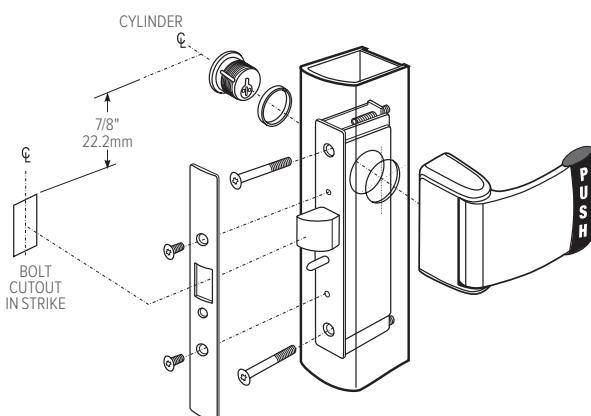
ARMORED FACEPLATE
1" X 6-7/8"



BACKSET	"A"
31/32" 24.6mm	1-5/8" 41.3mm
1-1/8" 28.6mm	1-49/64" 44.8mm
1-1/2" 38.1mm	2-9/64" 54.4mm

Flat faceplate can be
adjusted for right or left
beveled edge doors.

Latch Paddle & Cylinder Installation



How to Order & Related Products

4900 Heavy Duty Deadlatch: Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
49	00	- 3	5	- 2	01	- 628
	00 Standard	2 31/32"	5 LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	11W Radius with Weatherstrip	3 1-1/8"	6 RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stile	335 Black Anodized
	13 Without faceplate, without strike plate	4 1-1/2"			17 Flat/Center Hung 4" Jamb	628 Clear Anodized
					21 Flat/Center Hung 4-1/2" Jamb	

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

ELECTRIC STRIKES	TRIM	CYLINDERS	ACCESSORIES
7100/7110, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes	3080, 3080E Series Entry Trim, 3090-150, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbtturn 4043 Cylinder guard	4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes



4920AN

Heavy Duty Deadlatch (ANSI Size)

4920AN Heavy Duty Deadlatch provides flexible traffic control and easy installation for wood or hollow metal doors.

Function

Flexibility of traffic control and installation is offered by 4920AN Heavy Duty Deadlatches. A key-controlled bolt hold-back feature allows for two-way traffic for applications which require free entrance at certain times and exit-only at other times. This allows a "locked" entrance to be used as an exit by visitors already in the building. 1-3/4" [44.5 mm] minimum door thickness required. Interchangeable, without stile modification, with any MS1850SN Deadlock of same backset and faceplate shape. Replaces 4520 and discontinued 4720 ANSI Deadlatches. For hollow metal or wood doors prepared for hardware according to the specifications of the American National Standards Institute (ANSI).



Operation

Turn key or operate handle or paddle to retract spring-loaded latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.

Features

Cylinder Backset

1-1/2" [38.1 mm] or
2-3/4" [69.9 mm] only.

Case

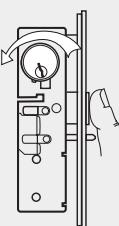
Steel with corrosion-resistant plating. Measures 7/8" x 5-13/16" x depth [22.2 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.

Latchbolt

Solid brass. Handing is easily reversible without special tools. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.



Auxiliary Linchpin

Stainless steel. Deadlocks Latchbolt to prevent "loiding" or case-knife entry.

Faceplate

Measures 1-1/4" x 8" [31.8 mm x 203.2 mm] armored flat faceplate can also be adjusted in the field for right or left beveled edge doors.

Strike

4506-02 Strike furnished to ANSI preparation specifications for flat jamb. Stainless steel, US32D Satin finish (630). Available without strike (-000).

Standard Package

Individually boxed with strike plate, faceplate, and mounting screws. Cylinder, paddle, handle available separately.

Shipping Weight

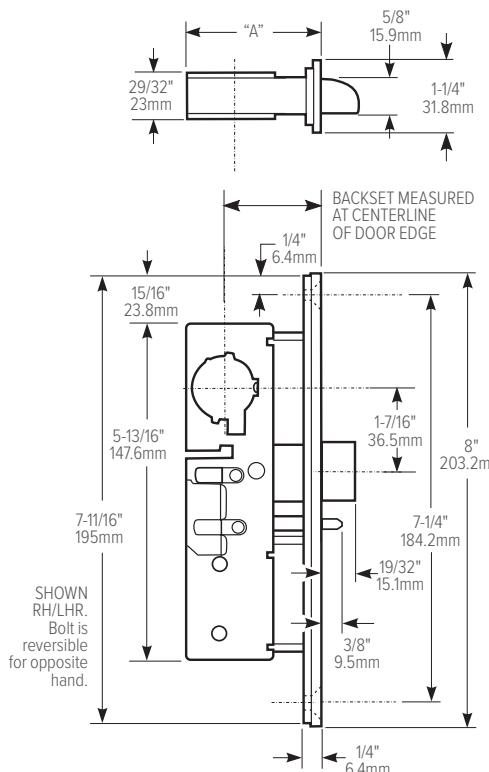
1-1/4 lbs [0.57 kg].

Options

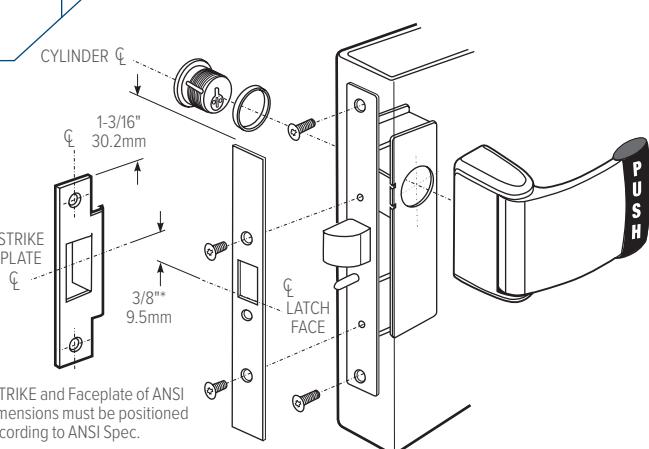
- Backset, faceplate shape, strike, handing, and finish must be specified when ordering. See 4900 Heavy Duty Deadlatch for aluminum stile door applications.
- Available without faceplate and strike, select 4923AN.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

All measurements are approximate and are provided for informational purposes only.
 Refer to the product Installation Instructions.

Dimensions

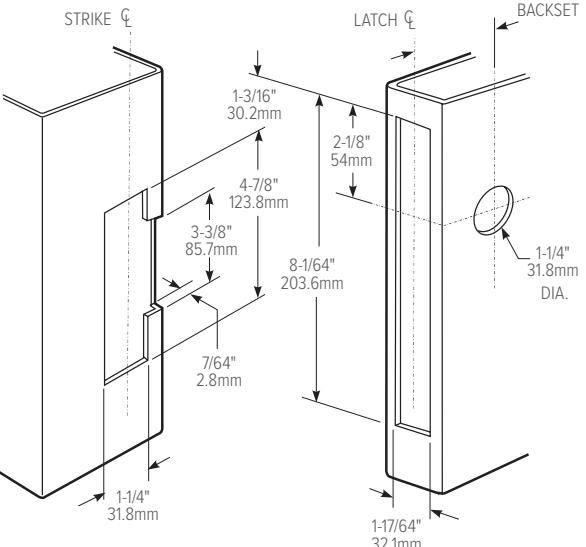


Latch Paddle & Cylinder Installation



Stile Preparation

Identical to MS1850SN Series (See also prep for 4591 paddle).



HOW BACKSET IS MEASURED:
 CYLINDER
 FLAT
 BEVEL

ARMORED FACEPLATE
 1-1/4" X 8"

FLAT
 24-0138-01-XXX

Flat faceplate can be adjusted for right or left beveled edge doors.

BACKSET	"A"
1-1/2" 38.1mm	2-9/64" 54.4mm
2-3/4" 69.9mm	3-25/64" 86.1mm

How to Order & Related Products

4920AN Heavy Duty Deadlatch (ANSI Size) Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE	FACEPLATE FINISH
492	OAN	4	6	- 602	- 313
	OAN Flat	4 1-1/2"	5 LH or RHR	000 Less Strike	313 Dark Bronze Anodized
	3AN Without faceplate, without strike plate	5 2-3/4"	6 RH or LHR	602 4506 Strike	335 Black Anodized
					628 Clear Anodized

RELATED PRODUCTS When purchasing this product, please consider the following related products, available separately:

ELECTRIC STRIKES	TRIM	CYLINDERS	ACCESSORIES
7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes	3080, 3080E Series Entry Trim, 3090-150, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumturn 4043 Cylinder guard	4506-02 Deadlatch Strikes