

4000 Series MS® Deadlock Strikes



ALUMINUM

HOLLOW
METAL

WOOD

4000 Series MS® Deadlock Strikes add aesthetics and finish to strike cutouts in jambs.

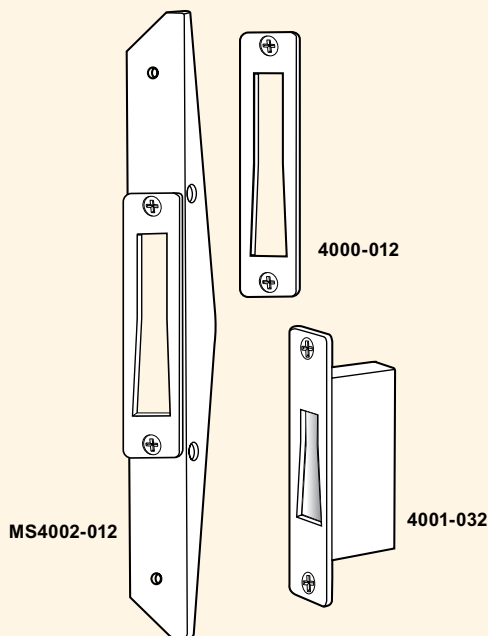
Function

The majority of Adams Rite MS® deadlocks are installed in metal construction where the strike cutout can be simply a slot in the jamb. However, for aesthetic reasons or in the case of the MS4002 for added security, many who specify the MS deadlock add one of these strikes.

Specifications

4000 TRIM STRIKE

- A simple strike plate that can be surface mounted on a wood or metal jamb or mortised flush. Furnished with two #10 flat head machine screws and two #10 flat head wood screws.
- Material & Finish:** Made of aluminum. Available in US28 (628), clear anodized, 313 dark bronze anodized, and 335 black anodized.



4001 BOX STRIKE

- Same trim plate as 4000, but with dust box added. Customarily used only for wood construction where the dust box prevents chips, sawdust, and other debris from entering strike. Furnished with both wood and machine screws.
- Material & Finish:** Trim plate is aluminum, box is steel plated for corrosion resistance. Available in US28 (628) clear anodized, 313 dark bronze anodized, and 335 black anodized.

MS4002 ARMORED STRIKE

- Same trim plate as 4000 and 4001, but backed up by a massive steel doubler designed to prevent the method of forced entry known as "jamb peeling". Fits within aluminum or other hollow jamb sections with trim face flush, the steel completely hidden. Available flat or radiused, for pairs of doors*, and to fit all MS® deadlocks, including the hookbolt version in sliding doors (hookbolt use dictates door/jamb gap of 1/8" or less). Unhanded, may be used with RH or LH swinging or sliding doors.

*Can be used with two-point and three-point MS locks.

- Material & Finish:** Trim plate is aluminum. Reinforcement doubler is steel plated for corrosion resistance. Available in US28 (628), clear anodized, 313 dark bronze anodized, and 335 black anodized.

4003 ANSI STRIKE

- The 4003 strike is designed for ANSI applications for use with the MS1850SN Deadlock.
- Material & Finish:** Trim plate is stainless steel. Available in 605 bright brass, 626 satin chrome and 119 black and 121 dark bronze.

4005 THRESHOLD STRIKE

- The 4005 Threshold Strike is designed for a drop-bolt such as 4015 Threshold Bolt or 4016 Header Bolt in non-metal installations such as wood or concrete.
- Material & Finish:** Trim plate is stainless steel. Available in 630 satin stainless steel.

4006 FLOOR STRIKE

- Similar to 4001 Box Strike, the 4006 Floor Strike is a trim plate with dust box added for strike slot cut into metal thresholds. Designed for use with the 1830 Bottom Rail Deadlock.
- Material & Finish:** Trim plate is stainless steel. Available in 630 satin stainless steel, 119 black and 121 dark bronze.

OPTIONS

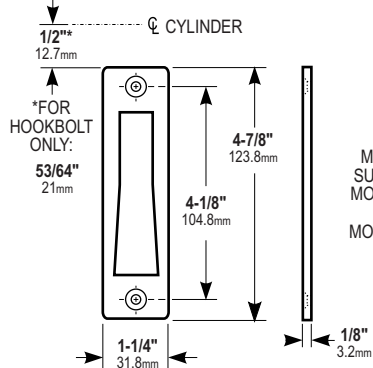
- Specify flat or radius shape of trim plate, round or square corners and lock compatibility when ordering. 4003-01 ANSI-dimensional lipped strike also available for MS1850SN Deadbolt.

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

Dimensions

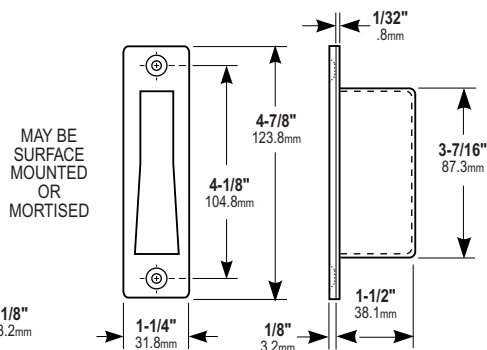
4000 Trim Strike

Strike plate only

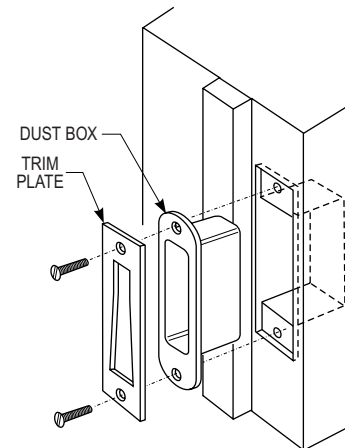


4001 Box Strike

Strike plate with dust box

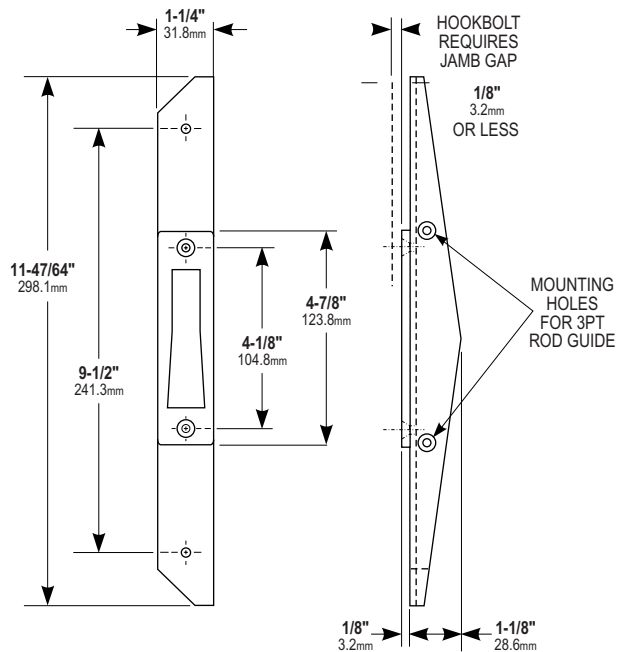


Mortise Jamb Installation

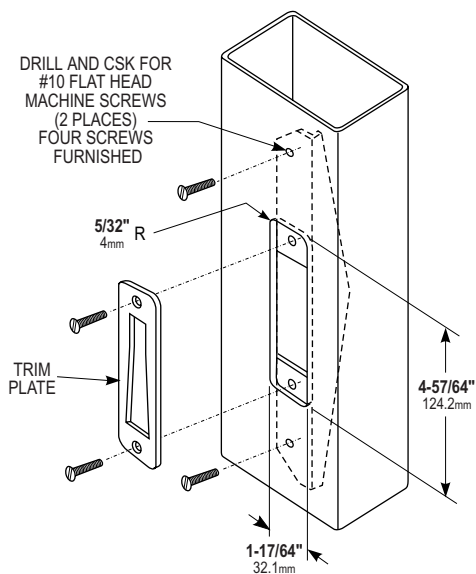


MS4002 Armored Strike

Strike plate with Reinforcement



Hollow Channel Jamb Preparation



HOW TO ORDER 4000, 4001, MS4002 DEADBOLT STRIKES

Specify quantity and the following information. Order related products separately.

STRIKE MODEL	TRIM PLATE SHAPE	COMPATIBLE DEADLOCK	TRIM PLATE CORNERS	FINISH
4001	-0	1	1	-313
4000 Trim Strike	0 Flat	1 All Standard MS® locks with 1-3/8" Bolt Throw	1 Square	313 Dark Bronze Anodized
4001 Box Strike	1 Radius	2 1850A-020 with 3/4" Bolt Throw Only	2 Round	335 Black Anodized
MS4002 Armored Strike		3 All MS-050 "Hookbolt" locks		628 Clear Anodized

COMPATIBLE PRODUCTS This product is compatible with the following products:

Deadlocks

Most Adams Rite Deadlocks

4015 Threshold Bolt



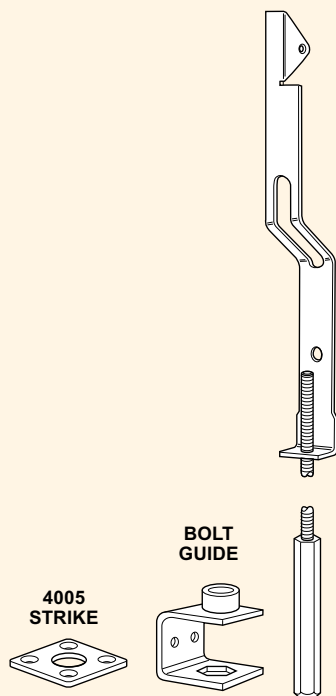
ALUMINUM

GRADE 1
E8241

4015 Threshold Bolt is a two-point lock that easily secures a double door entrance.

Function

Adding the 4015 Threshold Bolt to a pivoted bolt MS® deadlock allows Maximum Security for pairs of doors by the turn of a single key. Simultaneously dropping a stainless steel hexbolt into the threshold and pivoting the massive MS® bolt into the mating door's stile, the two-point lock secures the entire double door entrance. The 4015 threshold bolt is harnessed to the rear of the pivoted bolt. It may be added to any basic MS1850S or MS1850SN deadbolt.



Operation

360° turn of key or thumbturn in basic MS® deadlock throws counterbalanced bolt into opposite door and drop-bolt into threshold. Key can be removed only when bolts are in a positively locked or unlocked position.

Specifications

CYLINDER HEIGHT

- Standard threshold bolt rod is sufficient for cylinder height up to 53-7/16". It is fully threaded and can be cut off for low cylinder heights. Also available to volume users, cut and threaded only for specific cylinder heights.

ADJUSTMENT

- Exact adjustment of threaded rod to cylinder heights is locked in place by hexagonal threshold bolt

STRIKE

- For drop-bolt, a 1/2" diameter hold in metal threshold is suitable. For non-metal installation, 4005 strike is available.

THRESHOLD BOLT

- Hexagonal 3/8" flat to flat. Made of stainless steel.

OPTIONS

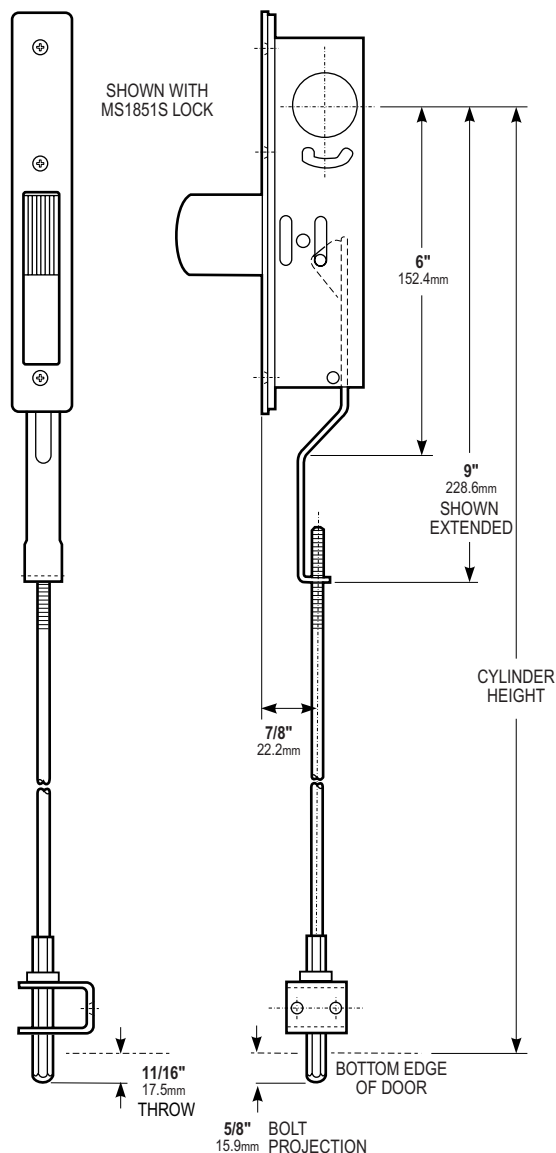
- For "universal" application, specify 4015-18 with fully threaded rod for cut off to any cylinder heights below 53". For greater height or precut rod for high volume use, specify exact cylinder height.

STANDARD PACKAGE

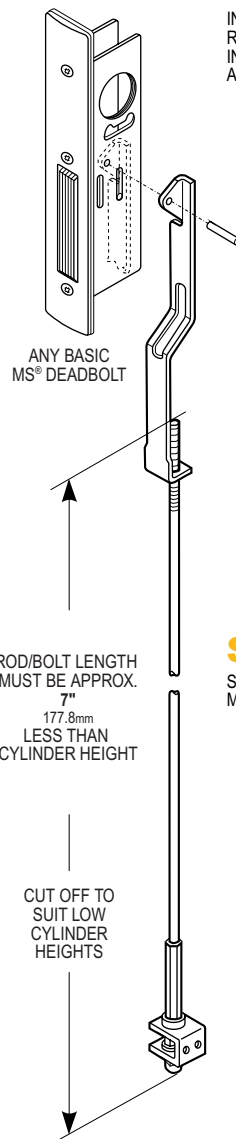
- Packed separately with bolt guide, screws, and attachment pin. Shipping weight: 1lb.

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

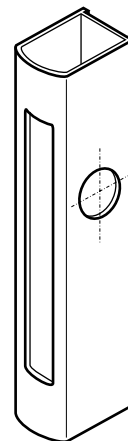
Dimensions



Installation

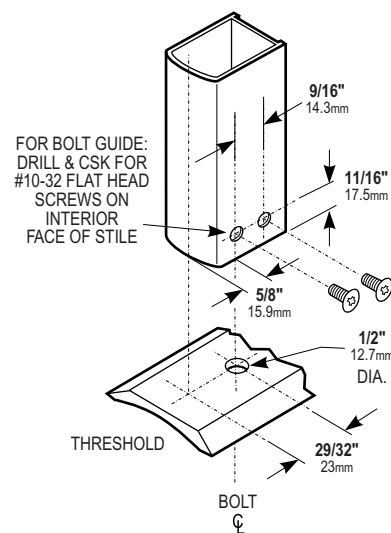


INSTALL ADAPTOR ARM IN LOCK FROM REAR WITH BOLT RETRACTED AS SHOWN. DRIVE PIN THROUGH SLOTS IN LOCK SIDE PLATES PASSING THROUGH HOLE IN THE ADAPTOR ARM.



Stile Preparation

SEE BASIC MS® DEADLOCKS
MS1850S, MS1850SN, MS1950, MS1950-050



HOW TO ORDER 4015 THRESHOLD BOLT

Specify quantity and the following information. Order related products separately.

	ADD DASH NUMBER FOR "UNIVERSAL SIZE"	PACKAGING
4015	-18	-IB
		IB Individually Boxed

If ordering in volume quantity for specific cylinder height, specify CYLINDER HEIGHT.

RELATED PRODUCTS

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

Accessories

4016 Header Bolt, 4085 Header Bolt.

COMPATIBLE PRODUCTS

This product is compatible with the following products:

Deadlocks

MS1850S(-050), MS1850SN(-050), MS1950(-050)

4016 Header Bolt



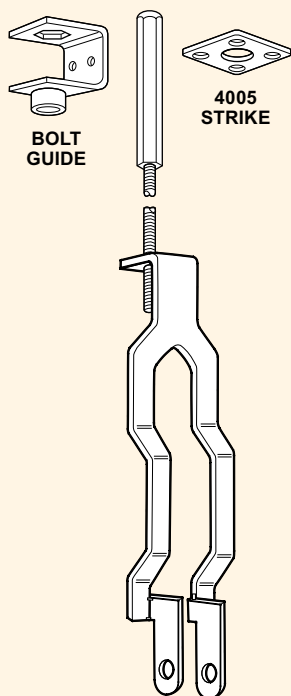
ALUMINUM

GRADE 1
E82111

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.

Function

Adding the 4016 Header Bolt and the 4015 Threshold Bolt to a pivoted bolt MS® deadlock allows Maximum Security for pairs of doors by the turn of a single key. Simultaneously extending the stainless steel hexbolts top and bottom and pivoting the massive MS® bolt into the mating stile, the three-point lock secures the entire double door entrance. The 4016 Header Bolt can be added to any basic MS1850S, MS1850SN, MS1950 or for two-points top and bottom use with 1870/1870HM Cylinder-Operated Flushbolt. Not applicable to 7/8" backset locks.



Operation

360° turn of key or thumbturn in basic MS® deadlock throws counterbalanced bolt into opposite door and hexagonal bolt into header strike. Key can be removed only when bolts are in a positively locked or unlocked position.

Specifications

DOOR/CYLINDER HEIGHT

- The standard version is designed for a 7' door height with cylinder height as low as 35". Added extension for up to a 10' door available when ordering.

HEADER BOLT

- Hexagonal 3/8" flat to flat. Made of stainless steel.

ADJUSTMENT

- Exact adjustment of threaded rod to door height is locked in place by hexagonal header bolt.

STRIKE

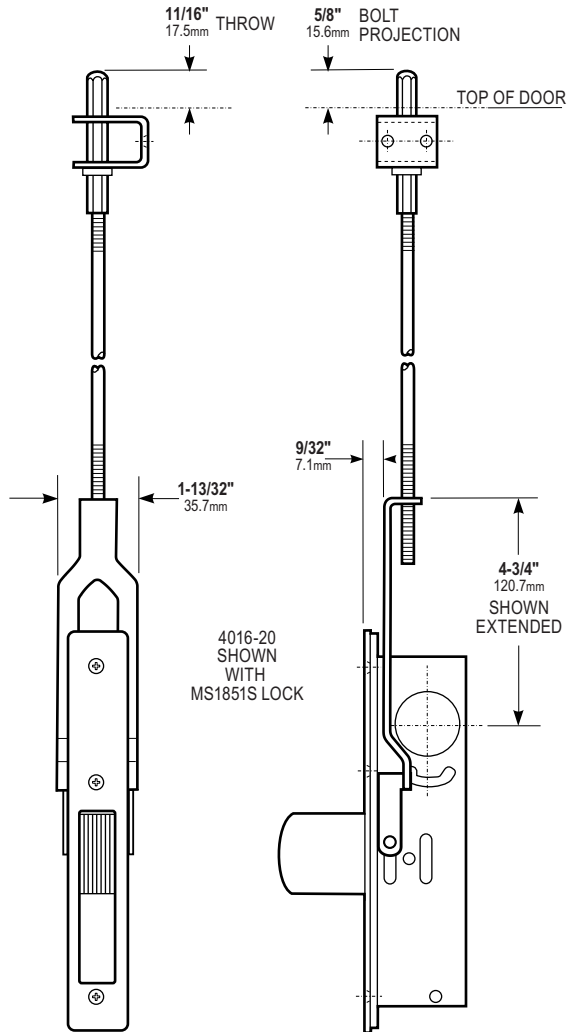
- For header bolt, a 1/2" diameter hole in metal frame is suitable or, for non-metal installation, 4005 strike is available.

STANDARD PACKAGE

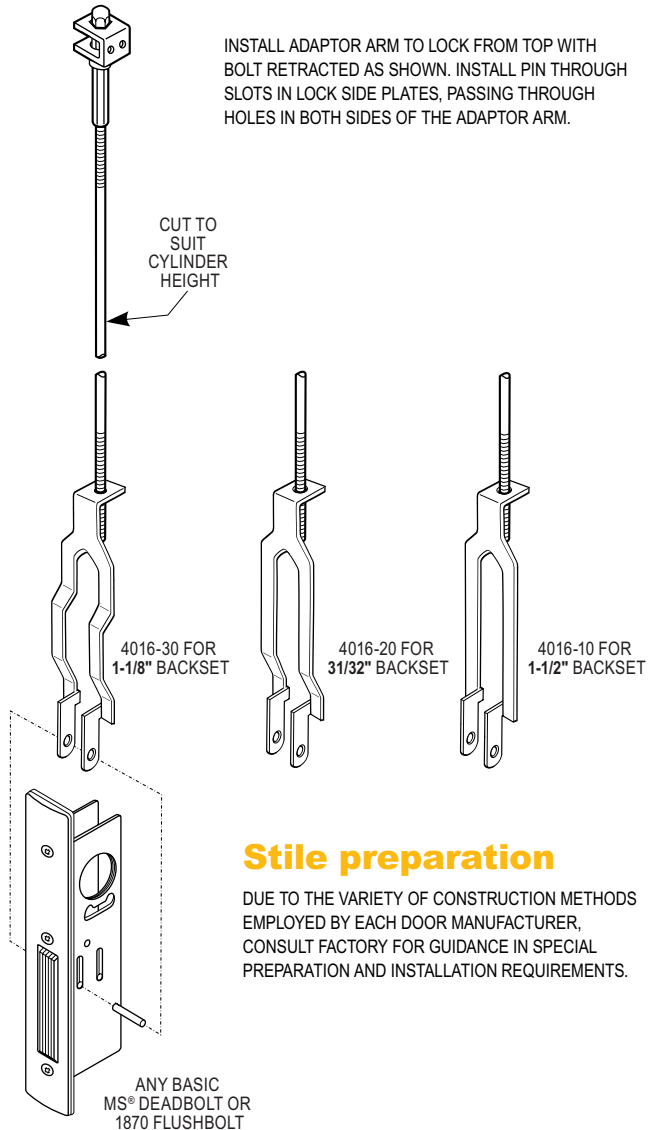
- Packed separately with bolt guide, screws, and attachment pin. Shipping weight: 1 lb.

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

Dimensions



Installation



Stile preparation

DUE TO THE VARIETY OF CONSTRUCTION METHODS EMPLOYED BY EACH DOOR MANUFACTURER, CONSULT FACTORY FOR GUIDANCE IN SPECIAL PREPARATION AND INSTALLATION REQUIREMENTS.

4016 HEADER BOLT

Specify quantity and the following information. Order related products separately.

	LOCK BACKSET	DOOR HEIGHT
4016	-30	-01
	10 1-1/2"	01 7' Door
	20 31/32"	02 10' Door
	30 1-1/8"	

RELATED PRODUCTS

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

Accessories

4015 Threshold Bolt, 4085 Header Bolt.

COMPATIBLE PRODUCTS

This product is compatible with the following products:

Deadlocks

MS1850S(-050), MS1850SN(-050), MS1950(-050)
Not applicable to 7/8" backset locks.

Flushbolts

1870, 1870HM Cylinder-Operated Flushbolt.
Not applicable to 7/8" backset locks.

4085 Header Bolt (Pairs of Doors Only)



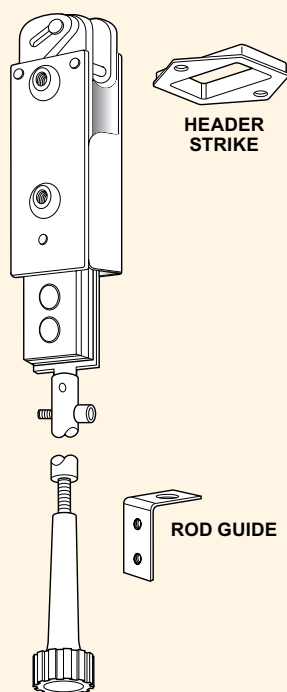
ALUMINUM

GRADE 1
E8261

Top-of-Door 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.

Function

Designed to add a top-of-door third locking point for pairs of doors with an MS® pivoted bolt deadlock and 4015 Threshold bolt in the active leaf. The 4085 Header Bolt is mounted in the inactive leaf. This additional bolt, triggered by the pivoted MS® bolt, expands in a "scissors" action to center itself in its strike as it rises. This action saves the key holder from the difficulty of lining up the doors with three separate strikes, even if doors are misaligned due to faulty installation or settling. The three-point features may be added to any basic MS1850S/MS1850SN or MS1950 deadbolt.



Operation

360° turn of key or thumbturn in basic MS® deadlock throws counterbalanced bolt into opposite door, kicking positioner bolt into header strike. Positioner bolt may be manually thrown before closing active leaf to reduce effort on key-bow. Key can be removed only when bolts are in a positively locked or unlocked position.

Specifications

HEADER BOLT

- 1/2" x 1-1/2" expanding bolt with 5/8" throw. Housed in 1-1/2" x 2-3/4" x 5/8" case.

ADJUSTMENT

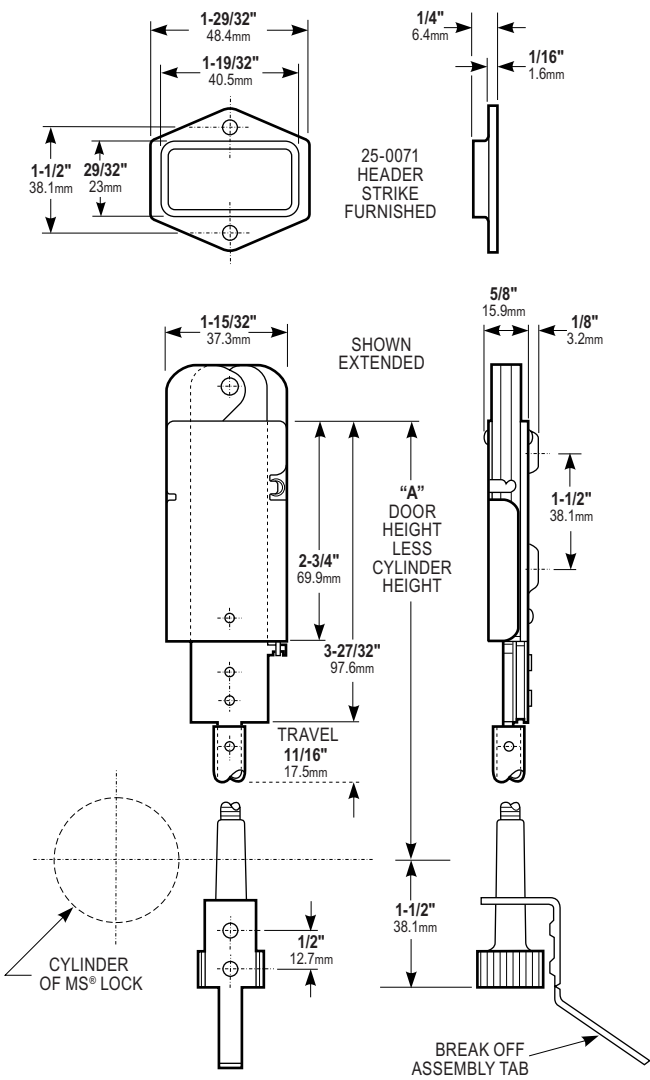
- Minor adjustment of rod length is accomplished by turning nylon rod end.

STANDARD PACKAGE

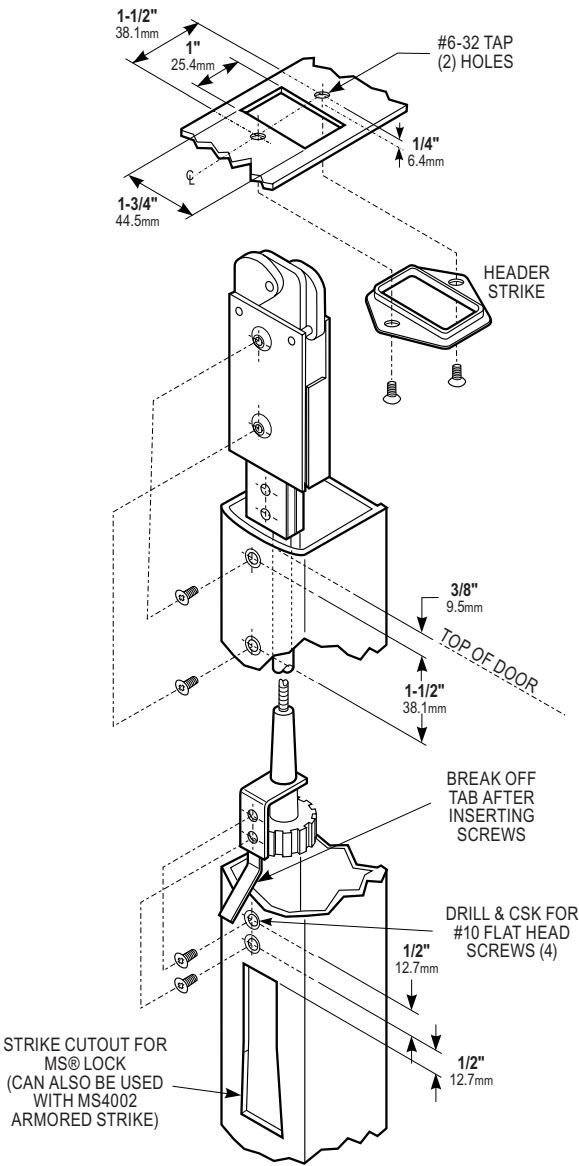
- Packed separately with rod guide, screws, and header strike. Shipping weight: 1 lb.

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

Dimensions



Header Preparation for Strike



4085 HEADER BOLT

Specify quantity and the following information. Order related products separately.

	DIMENSION 'A'	PACKAGING
4085	-02	-IB
	01 30" - 52"	IB Individually Boxed
	02 52" - 67"	
	03 67" - 79"	
	04 79" - 92"	

example			
Door Height	Cylinder Height	A	
96"	-	40"	= 56"

Reference:

7' Door is 84"
8' Door is 96"
9' Door is 108"
10' Door is 120"

RELATED PRODUCTS

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

Accessories

4015 Threshold Bolt.

COMPATIBLE PRODUCTS

This product is compatible with the following products:

Deadlocks

MS1850S(-050), MS1850SN(-050), MS1950(-050).
Not applicable to 7/8" backset locks.

4089 Exit Indicator



ALUMINUM

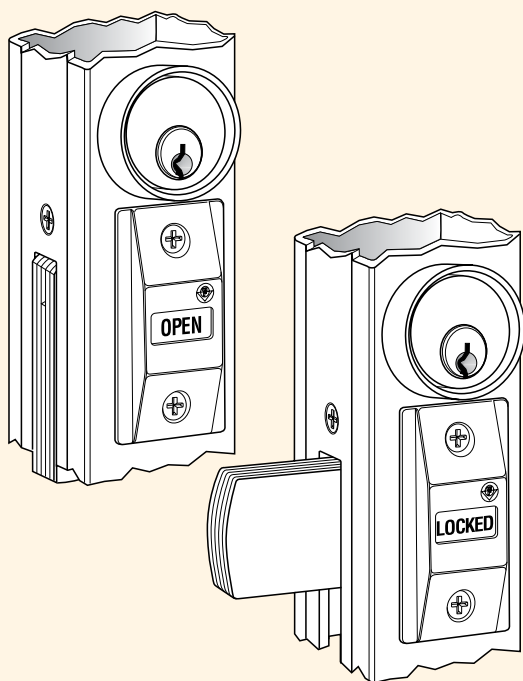
HOLLOW
METAL

WOOD

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

Function

Provides unmistakable notification of an exit door's "locked" or "open" condition. Under many local building safety codes, this allows the use, in certain occupancies, of a security deadlock instead of less secure panic devices. It includes two permanent adhesive header signs: "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." (that wording is according to Uniform Building Code). The second sign for NFPA and other local codes reads: "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED."



Specifications

MESSAGE PANEL

- "OPEN" appears in black letters on white background when lock is retracted and "LOCKED" in red letters when actuated. Also available with red (locked) and green (unlocked) wordless panels.

MATERIAL/FINISH

- Indicator escutcheon is zinc alloy with 130 (Satin Aluminum) finish. Also available in 119 satin black and 121 dark bronze. Header sign is clear aluminum match with black letters.

OPTIONS

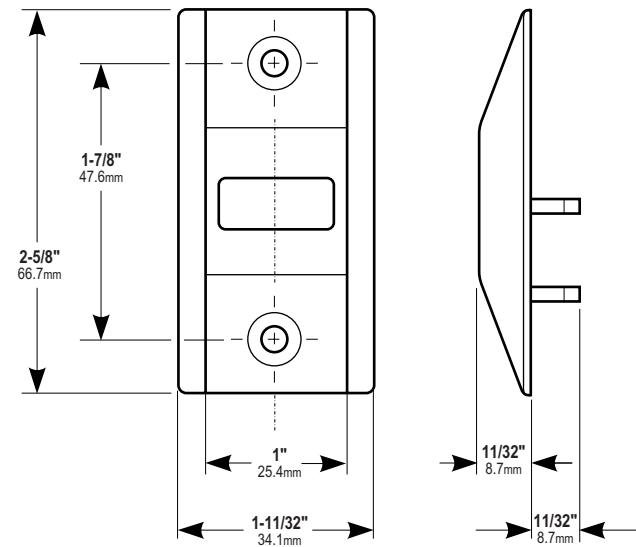
- Standard unit fits 1-3/4" doors. Specify for thicker doors up to 2-1/2".

STANDARD PACKAGE

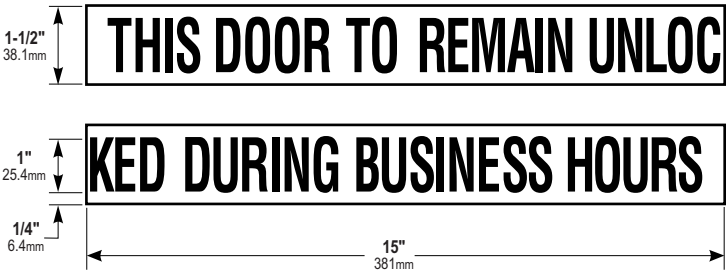
- Shipping weight: 1/2 lb.

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

Dimensions



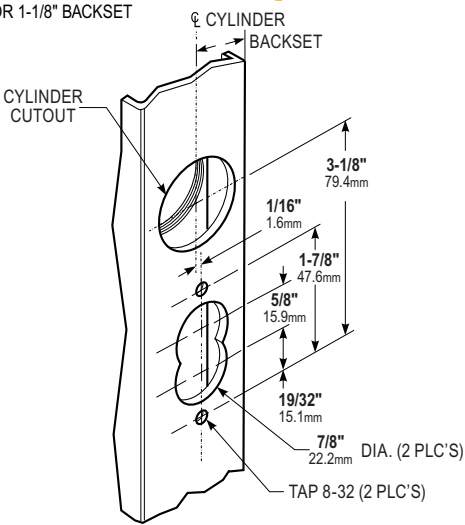
HEADER SIGN - IN TWO PIECES*



*THIS SIGN CORRECT UNDER UNIFORM BUILDING CODE. ALSO INCLUDES NFPA WORDING "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED".

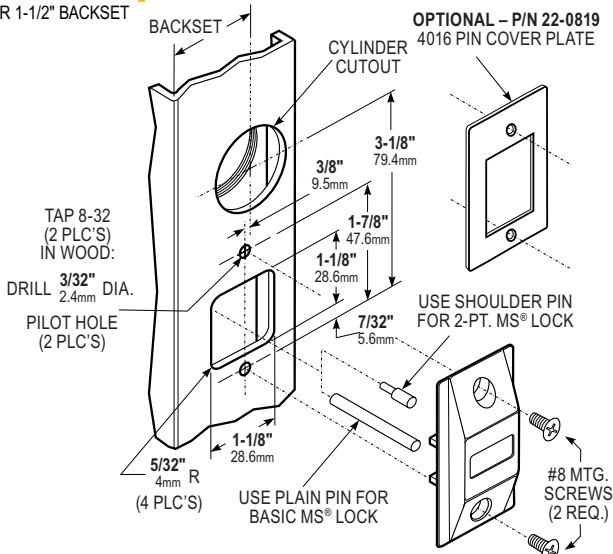
Aluminium Stile Preparation

FOR 31/32" OR 1-1/8" BACKSET



Wood and Hollow Metal Stile Preparation

FOR 1-1/2" BACKSET



4089 EXIT INDICATOR

Specify quantity and the following information. Order related products separately.

	OPTIONS	FINISH
4089	-01	-130
	00 Standard 1-3/4" Door	119 To match 335 Black Anodized
	01 For Inverted Lock	121 To match 313 Dark Bronze Anodized
	20 For Doors up to 2-1/2"	130 To match 628 Clear Anodized

Standard unit fits 1-3/4" doors

RELATED PRODUCTS

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

Accessories

91-0912 Adapter Plate, 20-0255-IP Header Sign, 20-0256-IP IBC Header Sign, 22-0819 Pin Cover Plate for 4016.

COMPATIBLE PRODUCTS

This product is compatible with the following products:

Deadlocks

MS1830, MS1837, MS1850S(-050), SCH1850S, MS1850SN(-050), SCH1850SN, MS1950(-050), MS+1890.

Flushbolts

1870 Cylinder-Operated Flushbolt.

4800 Series Strikes

HOLLOW
METAL

WOOD

4800 Series Strikes add aesthetics and finish to strike cutouts in jambs.

4800 Series

Function

With vertical adjustment to accommodate door/jamb misalignment and a shim system for horizontal positioning to match various jamb bumper designs, the 4800 Series Strikes can be fit to nearly any sliding door using a mortised MS1847 Deadlock or latch. 4801 strikes are furnished with sheet metal screws for metal jamb installation. 4802 strikes are furnished with machine screws and tee nuts which are installed on the back side of the jamb to provide the strongest possible anchorage in wood.

Specifications

MATERIAL

- Steel, heat treated. Shims are ABS plastic. Zinc (603) finish.

MS4804

Function

This reinforcing strike provides strength equal to the strength of the stainless steel bolt of the MS1847 Deadlock: tested to 1,000 lbs. of force. This strength by far exceeds the standards of the Architectural Aluminum Manufacturers Association as well as the strictest current municipal security ordinance.

Specifications

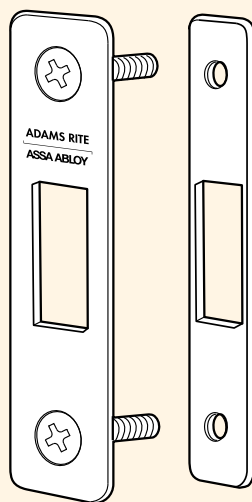
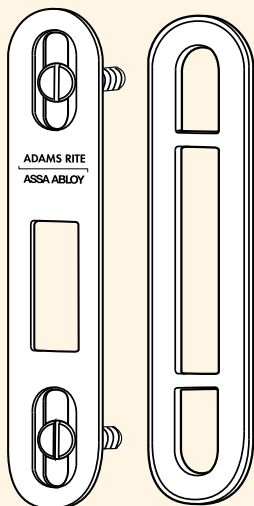
FACEPLATE

- Measures 1/16" x 3/4" x 3-3/8". Steel, plated for corrosion resistance. MS4804-10 available in stainless steel.

REINFORCING PLATE

- Measures 1/16" x 1/2" x 3-3/8". Steel, plated for corrosion resistance. Tapped for furnished #10-32 flathead screws.

4801-01
WITH SHIM



MS4804

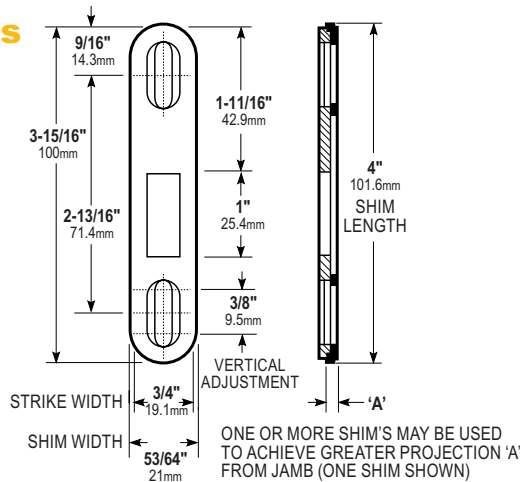
STANDARD PACKAGE FOR BOTH 4800 AND 4804

- All strikes are individually packaged in envelope with screws and shim if required.

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

Dimensions

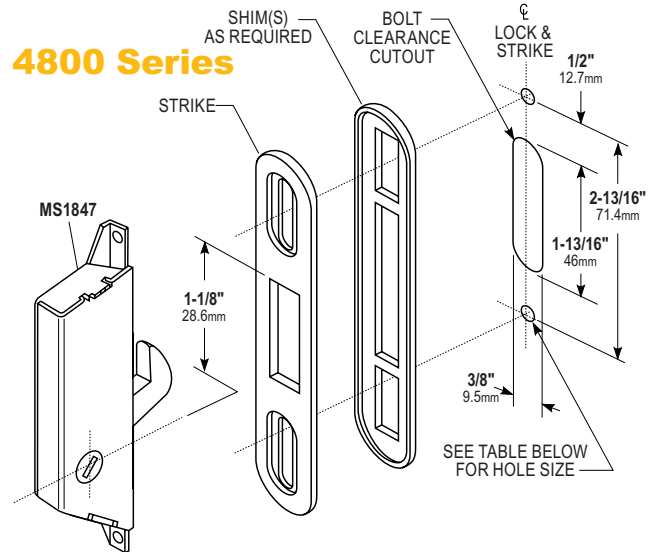
4800 Series



APPLICATION	PART NO.	SHIMS	DIMENSION 'A'
METAL JAMBS (furnished with two #8 x 1 sheet metal screws)	4801	NONE	0
	4801-01	1	3/32" (2.4mm)
	4801-02	2	3/16" (4.8mm)
	4801-03	3	9/32" (7.1mm)
WOOD JAMBS (furnished with two #8-32 x 7/8" machine screws and two tee nuts)	4802	NONE	0
	4802-01	1	3/32" (2.4mm)
	4802-02	2	3/16" (4.8mm)
	4802-03	3	9/32" (7.1mm)

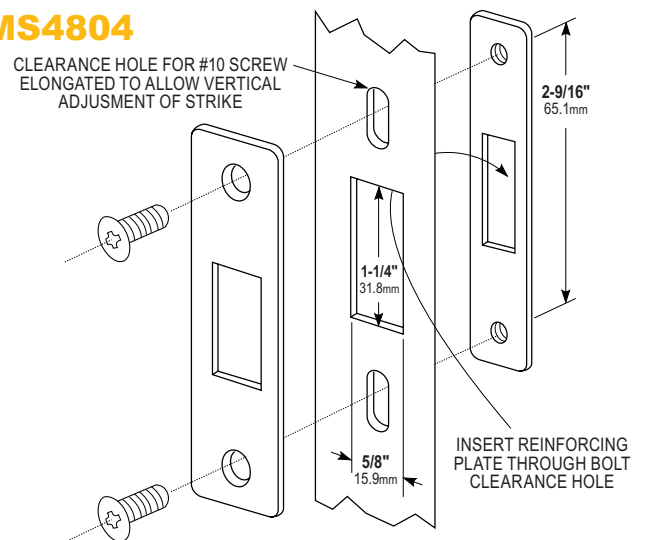
Jamb Preparation

4800 Series

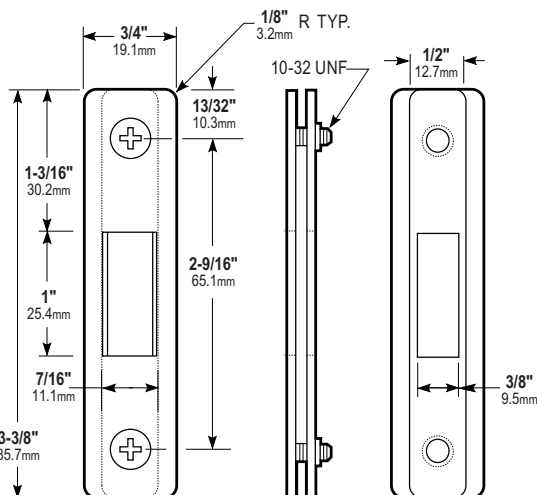


	HOLE SIZE	
METAL JAMB APPLICATION 4801 SERIES	1/8" (3.2mm)	(No. 31 DRILL)
WOOD JAMB APPLICATION 4802 SERIES	7/32" (5.6mm)	(No. 3 DRILL)

MS4804



MS4804



4800, MS4804 STRIKES

Specify quantity and the following information. Order related products separately.

	TYPE OF JAMB	DIMENSION 'A'
480	1	-02
	1 Metal	01 3/32"
	2 Wood	02 3/16"
		03 9/32"

	FINISH
MS4804	-630
	630 Satin Stainless

COMPATIBLE PRODUCTS This product is compatible with the following products:

Deadlocks

MS1847 Deadlock

4901, 4902 Deadlatch Strikes



ALUMINUM

HOLLOW
METAL

WOOD

4901, 4902 Deadlatch Strikes add aesthetics and finish to strike cutouts in jambs.

Function

Designed for use in conjunction with 4300, 4500, 4700, and 4900 Series Deadlatches, these strikes offer a choice of mounting methods; a backup mounting plate included with the 4901 and 4902 allows installation flush in a hollow section jamb. Use 4506-02 ANSI strike for wood or steel jambs. All strikes are unhandled, suitable for right or left hand doors. Strike plate material is stainless steel.

4901-01

Standard slat strike includes molded black plastic dust box and closure of the unused lower strike opening, with steel mounting plate. Long face is designed to span strike area of MS® deadlocks with which the deadlatch is interchangeable.

4901-02

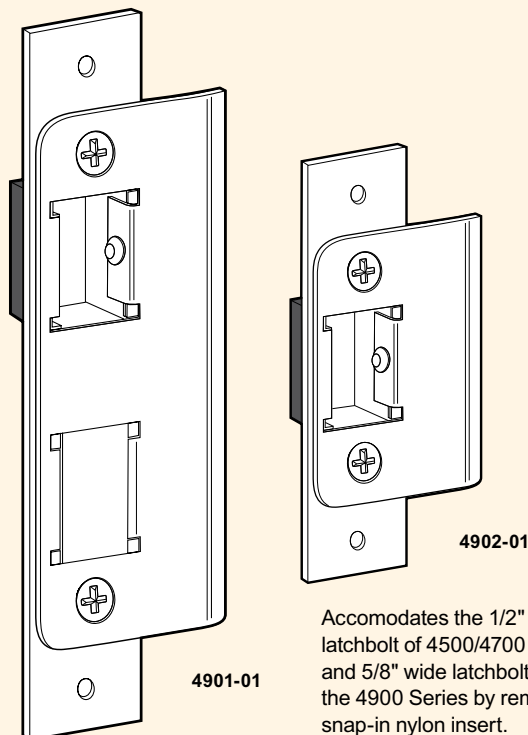
Same as 4901-01, except with radiused strike plate, for nose of opposite door when latching pairs.

4902-01

Standard flat strike furnished with the 4900 Series Heavy Duty Deadlatches. Includes molded black plastic dust box and steel mounting plate. Short face design.

4902-02

Same as 4902-01, except with radiused strike plate, for nose of opposite door when latching pairs.

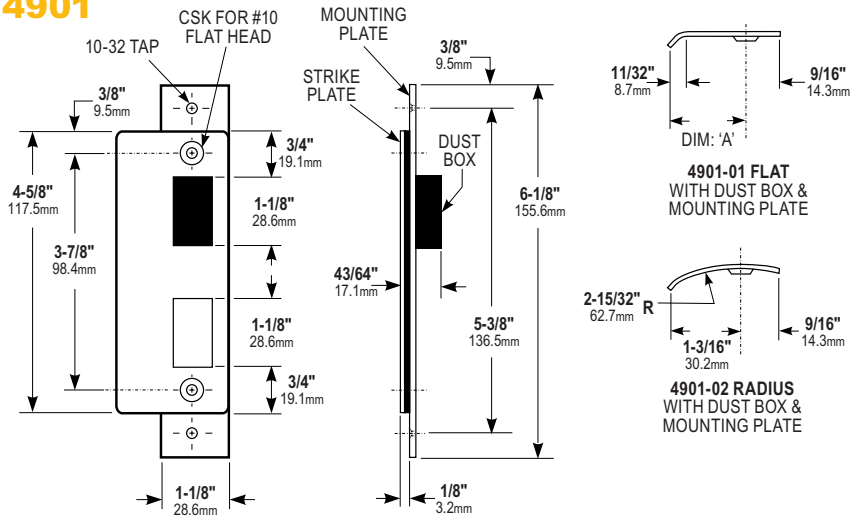


Accommodates the 1/2" wide latchbolt of 4500/4700 latches and 5/8" wide latchbolt of the 4900 Series by removing snap-in nylon insert.

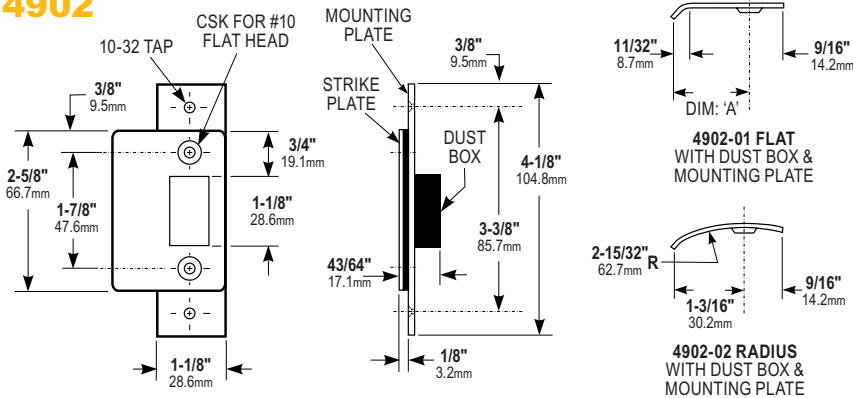
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

Dimensions

4901

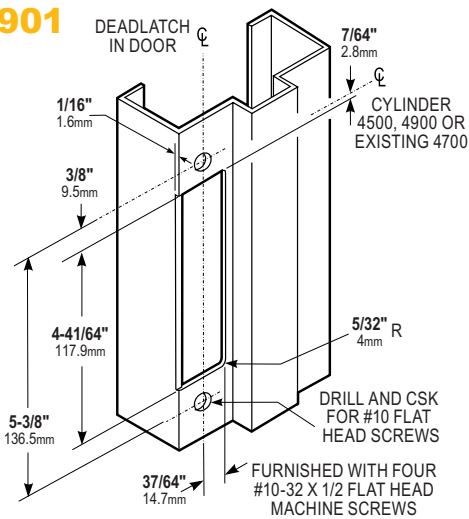


4902

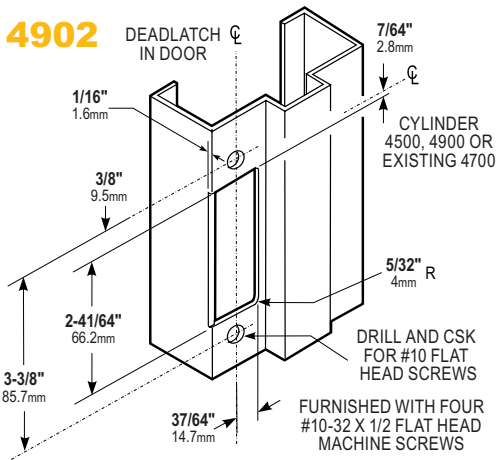


Installation

4901



4902



4901, 4902 DEADLATCH STRIKES

Specify quantity and the following information. Order related products separately.

	STRIKE TYPE	FACEPLATE SHAPE			
490	1	-02			
		Standard Lip			
	1 Long	01 Flat			
	2 Short	02 Radius			
		Long Lip for Center Hung Door		DIM. 'A'	
		03 2-1/4" Wide Jamb	13 3-1/2" Wide Jamb	1-1/8	1-3/4
		05 2-1/2" Wide Jamb	15 3-3/4" Wide Jamb	1-1/4	1-7/8
		07 2-3/4" Wide Jamb	17 4" Wide Jamb	1-3/8	2
		09 3" Wide Jamb	19 4-1/4" Wide Jamb	1-1/2	2-1/8
		11 3-1/4" Wide Jamb	21 4-1/2" Wide Jamb	1-5/8	2-1/4

COMPATIBLE PRODUCTS This product is compatible with the following products:

Deadlatches

4300 eLatch Electrified Deadlatch
4500 Series Standard Duty Deadlatch

4900 Series Heavy Duty Deadlatch
Note that 4700 Deadlatch is discontinued and replaced by 4900 Deadlatch.

Lock Mounting Methods

Lock mounting methods for narrow stile aluminum doors – the three most prevalent methods of mounting locks and latches within the hollow tube stile of glass doors are shown in the accompanying illustrations.

Method A: 4104 Mounting Bridge

Method “A” spans the stile with a steel bridge at the top and bottom of the lock. A simple handle (Adams Rite Installation Tool 4075) is used to position the bridge accurately in the stile while its two screws are tightened to form a “web” in the door. Resilient washers allow for minor adjustment to fit the lock flush in the door.

Method B: 26-00090XX Tube Spacer

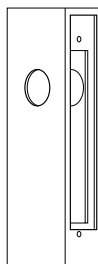
Method “B” requires two tapped holes in the back web of the stile and tubular spacers of appropriate lengths. Some door manufacturers use a heavy coil spring in place of the tube to allow for minor adjustment.

Method C: 91-0965 Kit for Radiused Door, 91-0966 Kit for Beveled Door

Method “C” was developed for use in Aluminum door jams for the purpose of retrofitting locks into existing doors. Its edge of the door location allows for easy application, reduces risk of door damage, particularly when used in glass doors, and makes drilling an easier process. It can also be used in metal or steel doors.

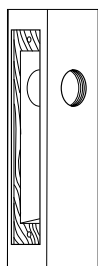
Lock Mounting Method for Hollow Metal Doors

Hollow metal doors with hardware preparation per ANSI standards have welded-in lock mounting tabs and require no modification to accept a lock manufactured with a mounting pattern conforming to these standards. (Examples: MS1850SN Deadlock and 4920AN Heavy Duty Deadlatch)

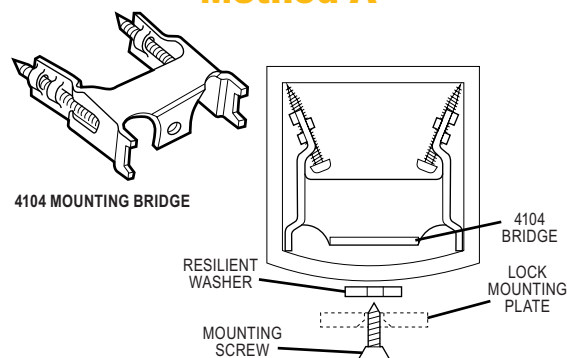


Lock Mounting Method for Wood Doors

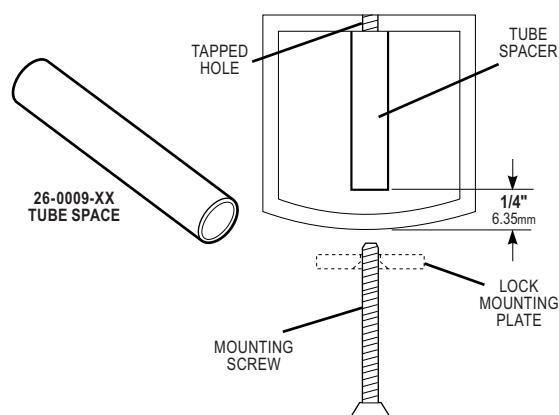
A stepped mortise cutout is required in wood door installations. This mortise can be accomplished most easily with a router, but hand drill and chisel methods will suffice for single or low volume installations.



Method A



Method B



Method C

