

Hollow  
Metal

Wood

Swinging  
DoorSliding  
DoorMS1850SN  
-450 only

# MS1850SN, MS1850SN-45X

## Series MS® Deadlocks

The ANSI size **MS1850SN Series MS® Deadlock** utilizes a laminated stainless steel bolt and the ANSI size **MS1850SN-45X 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 **MS1850SN 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 **MS1850SN-45X 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 MS1850SN Series MS® Deadlock.

## 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.



MS1850SN



MS1850SN-45X

# 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.

**MS1850SN:** 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.

**MS1850SN-45X:** 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].

## 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.

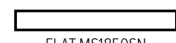
## Shipping Weight

1-1/2 lbs [0.68 kg].

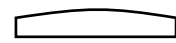
# Options

- "SCHOOLHOUSE" version, also available, is  
modified so that operation from inside is "unlock  
only". This lock is handed and must be specified  
LH or RH. Specify SCH1850SN or SCH1850SN-450  
Series. Same faceplate and backset options  
as MS1850SN or MS1850SN-450 Series.

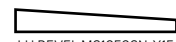
### ARMORED FACEPLATE 1-1/4" X 8"



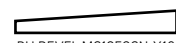
FLAT MS1850SN



RADIUS MS1851SN



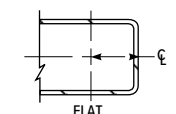
LH BEVEL MS1852SN-X15



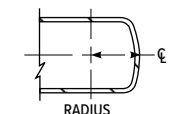
RH BEVEL MS1852SN-X16

### HOW BACKSET IS MEASURED:

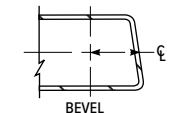
CYLINDER C



FLAT



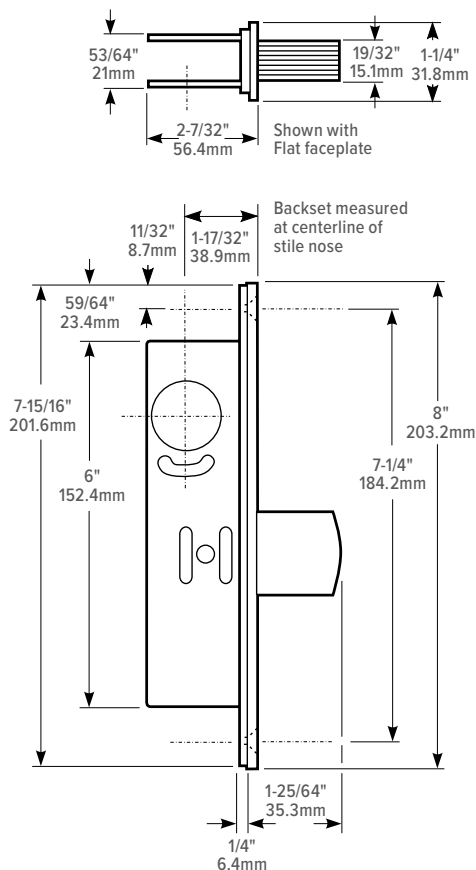
RADIUS



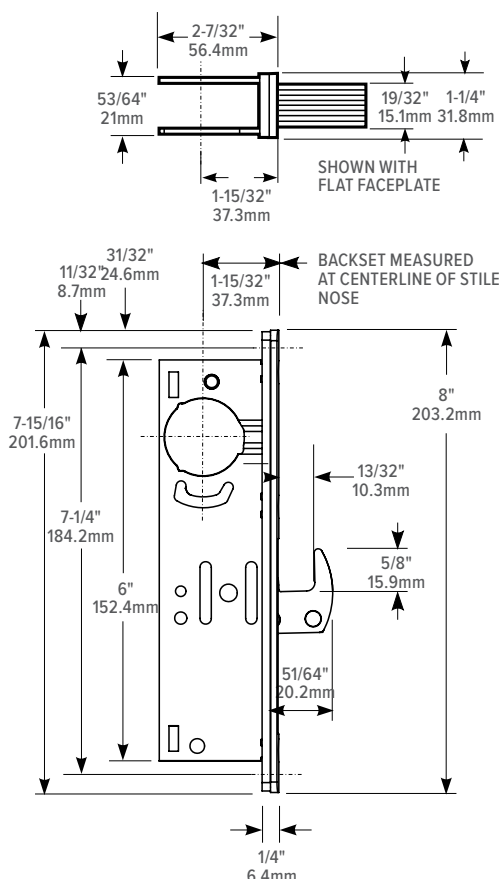
BEVEL

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

# MS1850SN Dimensions



# MS1850S-45X Dimensions

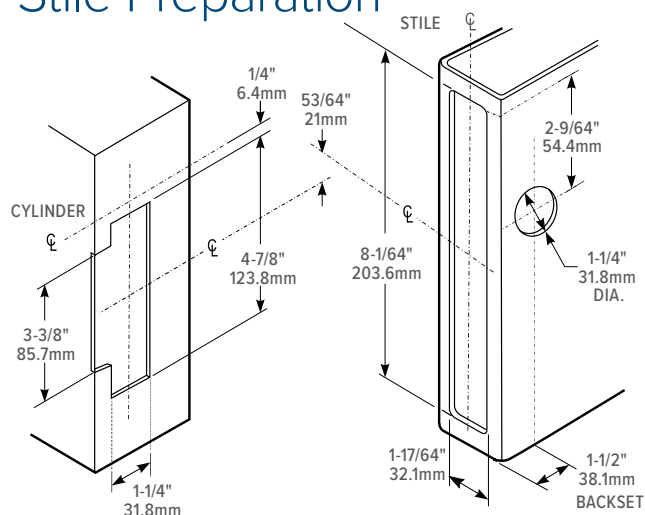


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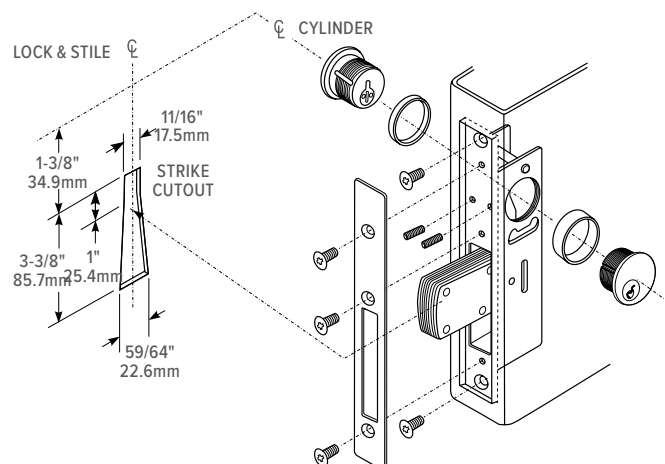
Patent pending and/or patent [www.assaabloydss.com/patents](http://www.assaabloydss.com/patents). Copyright © 2021, Hanchett Entry Systems, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Hanchett Entry Systems, Inc. is prohibited.

## MS1850SN

### Stile Preparation

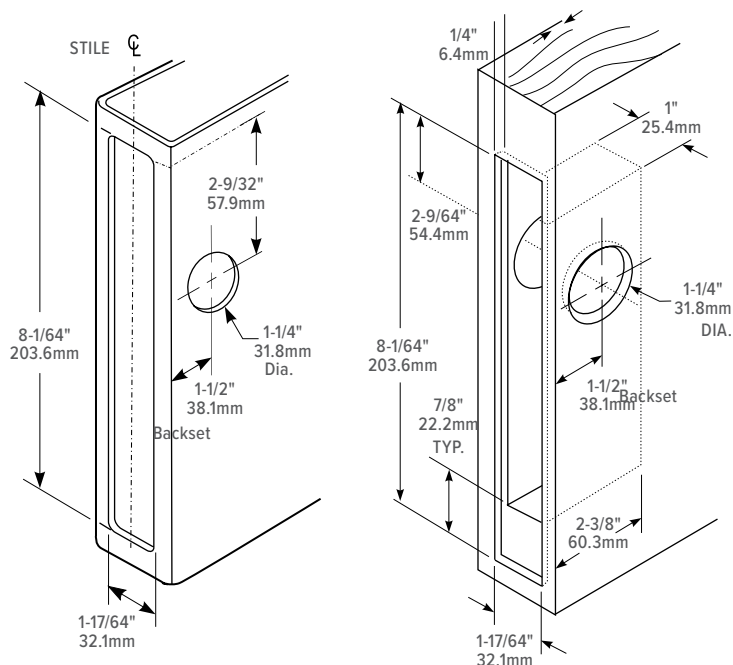


## Lock & Cylinder Installation



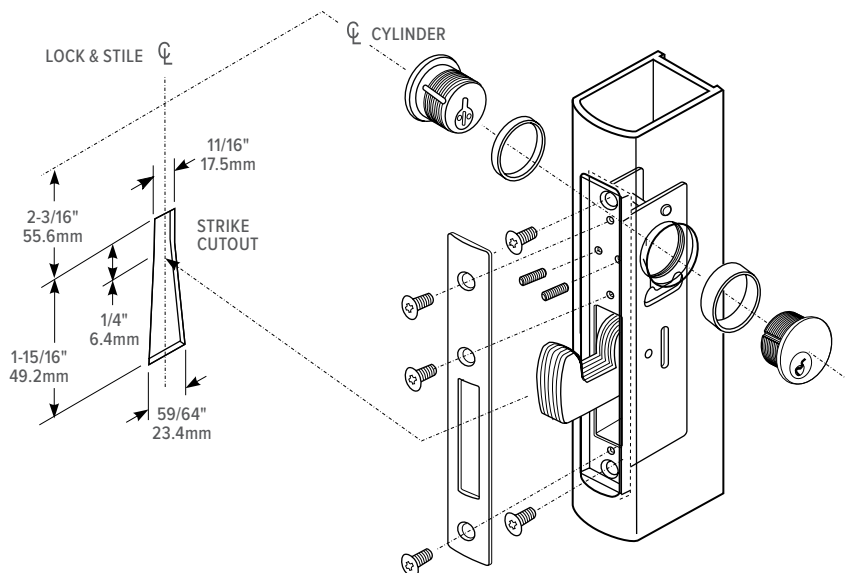
## MS1850S-45X

### Stile & Wood Preparation



# MS1850S-45X

## Lock & Cylinder Installation



## How to Order & Related Products

**MS1850SN, MS1850SN-45X Deadlock:** Specify quantity and the following information. Order related products separately.

| MODEL | FACEPLATE | ANSI SIZE | BOLT SHAPE       | HANDING       | FINISH                   |
|-------|-----------|-----------|------------------|---------------|--------------------------|
| MS185 | 0         | SN        | -41              | 0             | 628                      |
|       | 0 Flat    |           | 41 Straight bolt | 0 Non-Handed* | 313 Dark Bronze Anodized |
|       | 1 Radius  |           | 45 Hookbolt      | 5 LH or RHR   | 335 Black Anodized       |
|       | 2 Bevel   |           |                  | 6 RH or LHR   | 628 Clear Anodized       |

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

### RELATED – MS1850SN & MS1850SN-45X

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

| TRIM                                                           | CYLINDERS                                                                                                                                           | ACCESSORIES                                                                                                                                                                                                     | SPECIAL ORDER OPTIONS                               |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 3090-150, A100 Series<br>Keyless Entry, 4550<br>Deadlock Lever | Standard 1" length, 1-5/32"<br>diameter mortise cylinder with<br>MS® cam such as 4036 Mortise<br>Cylinder, 4066 Thumbturn;<br>MS4043 Cylinder Guard | 4000, 4001, MS4002 Deadlock Strikes<br>4015 Threshold Bolt, 4016 Header<br>Bolt for multi-point locking.<br>4085 Header Bolt for pairs of doors<br>Lock mounting accessories and options<br>4089 Exit Indicator | Schoolhouse function<br>available as special order. |

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