ELECTRIFIED GRADE 1 FOR 4500 SERIES LATCHES:

TRIM SET INTERIOR PASSAGE CLUTCHED EXTERIOR panic-proof exiting. Intended for out-swinging doors. The exterior lever retracts the latch only, while the security of a deadbolt. The key retracts and extends the deadbolt (and deadlatch) from either side. The interior lever retracts both when configured with interconnect feature. Outside lever retracts latch only.Latch holdback feature activated or deactivated by turning key to retract latch and sliding holdback button on faceplate down to hold and up to release.

Dual Force® 2190 Interconnected Deadbolt/Deadlatch

The Dual Force 2190 Interconnected Deadbolt/Deadlatch provides access control and security for aluminum stile doors. Latch and deadbolt capabilities are combined for fast, easy, and panic-proof exiting. Intended for out-swinging doors.

Function

The Dual Force 2190 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, while the interior lever retracts the deadbolt and latch simultaneously for fast, easy, panic-proof exiting. Intended for out-swinging doors.

Operation

Key or thumbturn retracts or extends deadbolt or deadlatch. Inside lever retracts both when configured with interconnect feature. Outside lever retracts latch only. Latch holdback feature activated or deactivated by turning key to retract latch and sliding holdback button on faceplate down to hold and up to release.

Specifications

INTER-CONNECTION
- Field-selectable inter-connect feature allows interior trim to retract deadbolt and deadlatch. Consult local building officials for guidance in code compliance. Retracts to existing MS1850S Deadbolt or 4500 and 4900 Deadlatch of the same backset. 1-3/4” minimum door thickness required.

CYLINDER BASKET
- 1-1/8” or 1-1/2” only.

LATCHBOLT/DEADBOLT

AUXILIARY DEADLATCH PIN
- Stainless steel. Deadlocks latchbolt to prevent “loiding” or case-knife entry.

FACEPLATES
- Measures 1” x 6-7/8”. Include Faceliftstyle faceplate system that adapts to flat, radius, or beveled door edge. Radius with weatherseal faceplate available separately.

Electrified Trim Options

- Order 2190 Electrification Kit EK-2190 for adding to the clutched exterior lever. Dual voltage 12/24 VDC rated for continuous duty operation. Energizing the lever allows exterior lever to be turned to retract latch only. The electrified option is not available for low profile trim (trim option 3).

Standard Package

- Individually boxed with trim as specified, strike and machine screws for mounting. Cylinders available separately. Shipping weight: 2 lbs.

How to Order Dual Force® 2190 Interconnected Deadbolt/Deadlatch

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

<table>
<thead>
<tr>
<th>PRODUCT NO.</th>
<th>BACKSET</th>
<th>STRIKE</th>
<th>FACEPLATE FINISH</th>
<th>TRIM</th>
<th>HANDLE DESIGNATION</th>
<th>TRIM AND HANDLE FINISH</th>
</tr>
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<tbody>
<tr>
<td>2190 -3</td>
<td>1</td>
<td>1</td>
<td>-1</td>
<td>01</td>
<td>32D</td>
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Trim options 1 and 2 are for outswinging doors only.

RELATED PRODUCTS

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

Electrification

- 2190 Interconnected Deadbolt/Deadlatch can be electrified in the field using the 2190 Electrification Kit (EK-2190) or it can be ordered with electrified trim (trim option 2).

Accessories

- Extended lip strikes. 2190 thick door kits.

Cylinders

- 2190 Interconnected Deadbolt/Deadlatch is operable by any standard 1-5/32” diameter mortise cylinder with MS® cam.
**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm)</th>
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<tbody>
<tr>
<td>2190</td>
<td>-</td>
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<tr>
<td>2190-01</td>
<td>-</td>
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<tr>
<td>2190-02</td>
<td>-</td>
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<tr>
<td>2190-03</td>
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**Stile Preparation**

For clutched exterior trim set.

**Jamb Preparation**

2101 STRIKE (covers and previous cutout for MS® Deadbolt) - Retrofits 4901 and 4951 strike preparations.

**Latch/Lock, Cylinder & Level Installation**

**Low Profile Trim**

*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.

**HANDED**