

Dual Force® 2190/2290 Series  
Interconnected Deadbolt/Deadlatch  
Function Chart



Safety on  
the **Inside.**  
Free Egress

Secured from  
the **Outside.**  
Controlled Access

 Adams  
Rite  
**ASSA ABLOY**

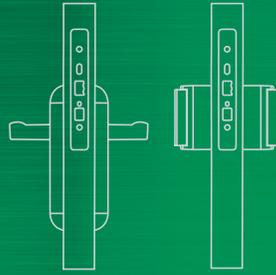
Experience a safer  
and more open world

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

The 2190/2290 combines the access control capabilities of a latch with the security of a deadbolt. With the deadbolt projected, a simple turn of the inside lever retracts both the latch and deadbolt simultaneously, providing code-compliant single-motion, panic-proof exiting. The Dual Force is available with electrified trim 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.



## Passage or Closet



### Functions

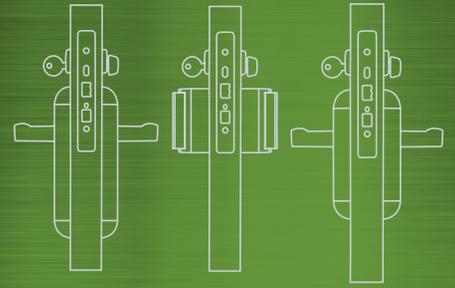
- Latchbolt operated by lever from either side at all times
- NOTE: Do not prepare door for cylinders

### Ordering

- 2190/2290 small format trim set (alt. 4591 push/pull paddle set)
- 4066 Mortise Thumbturn
- Mortise Cylinder

**ANSI\*/BHMA: F01**

## Dormitory or Exit



### Functions

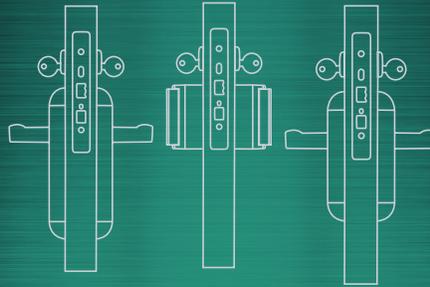
- Latchbolt operated by lever or paddle from either side
- Deadbolt projected by key from outside and thumbturn from inside
- Operating inside lever/paddle retracts both bolts

### Ordering

- 2190/2290 with clutched or small format trim set (alt. 4591 push/pull paddle set)
- 4066 Mortise Thumbturn
- 1 each Mortise Cylinder

**ANSI\*/BHMA: F13**

## Store Door



### Functions

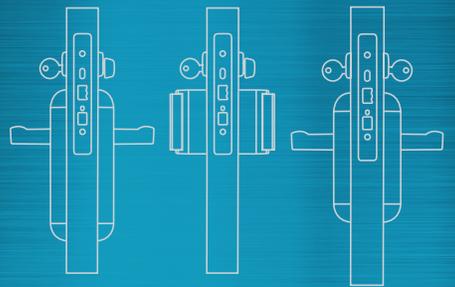
- Latchbolt operated by lever from either side
  - Deadbolt operated by key from either side
- NOTE: Field configurable – must remove interconnect cam (consult with local AHJ for specific restrictions pertaining to this function).

### Ordering

- 2190/2290 with clutched or small format trim set (alt. 4591 push/pull paddle set)
- 2 each Mortise Cylinders

**ANSI\*/BHMA: F14**

## Storeroom Door



### Functions

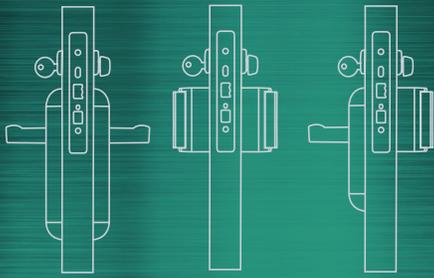
- Latchbolt operated by lever from either side
  - Deadbolt operated by key from outside and thumbturn from inside
- NOTE: Field configurable – must remove interconnect cam (consult with local AHJ for specific restrictions pertaining to this function).

### Ordering

- 2190/2290 with clutched or small format trim set (alt. 4591 push/pull paddle set)
- 4066 Mortise Thumbturn
- Mortise Cylinders

**ANSI\*/BHMA: F21**

## Entry Lock



### Functions

- Latchbolt operated by lever or paddle from either side
- Rotating inside thumbturn or key from outside extends deadbolt to locked position
- Both deadbolt and latchbolt are retracted by operating inside lever or paddle

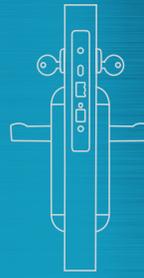
### Ordering

- 2190/2290 with clutched or small format trim set (alt. 4591 push/pull paddle set)
- 4066 Mortise Thumbturn
- Mortise Cylinders

**ANSI\*/BHMA: N/A**

## Electrified Trim

– with Mechanical Access Control Lockout



### Functions

- Outside lever unlocked by 12/24 VDC
- Latchbolt (only) retracted by outside lever when energized
- Inside lever always free for immediate egress
- Deadbolt operated by key to provide lockout function for access control

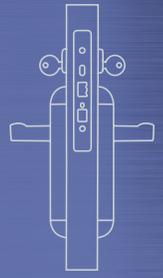
### Ordering

- 2190/2290 with electrified clutched trim set
- 2 each Mortise Cylinders

**ANSI\*/BHMA: N/A**

## Electrified Trim

– No Access Control Lockout



### Functions

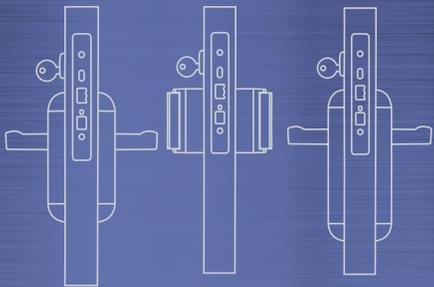
- Outside lever unlocked by 12/24 VDC
  - Latchbolt and deadbolt retracted by outside lever when energized
  - Inside lever always free for immediate egress
  - Deadbolt throws and retracts by key
  - Function for access control
- NOTE: Field configurable – must install double interconnect cam (supplied) at installation

### Ordering

- 2190 with electrified clutched trim set
- 2 each Mortise Cylinders

**ANSI\*/BHMA: N/A**

## Closet/Storeroom Lock with Deadbolt



### Functions

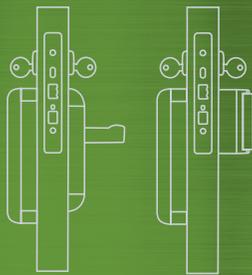
- Latchbolt retracted by lever/paddle from either side
- Deadbolt operated by outside key or inside lever

### Ordering

- 2190/2290 with clutched or small format trim set (alt. 4591 push/pull paddle set)
- Mortise Cylinders

**ANSI\*/BHMA: N/A**

## Latch Holdback



### Functions

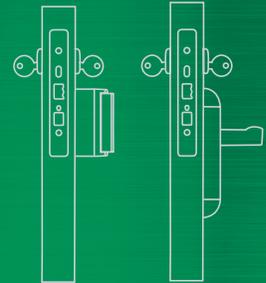
- Latchbolt operated by inside lever or paddle
- Deadbolt/latchbolt operated by key from either side
- Retract latch via key and operate slide button to engage holdback mechanism
- Fixed pull on exterior
- Inside lever/paddle always free for immediate egress

### Ordering

- 2190/2290 small format trim (4600) from inside only (alt. 4591 push paddle)
- Mortise Cylinders
- Fixed pull – supplied by door manufacturer

**ANSI\*/BHMA: N/A**

## Exit Lock (Alternative)



### Functions

- Latchbolt operated by inside lever or paddle
- Deadbolt/latchbolt operated by key from either side
- Inside lever/paddle is always free for immediate egress

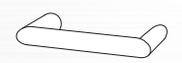
### Ordering

- 2190/2290 small format (4600) from inside only (alt. 4591 push/pull paddle)
- Mortise Cylinders

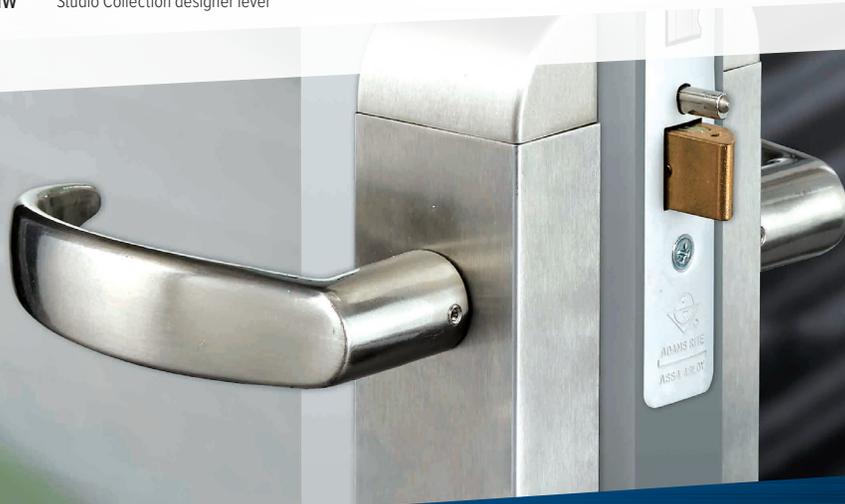
**ANSI\*/BHMA: N/A**

# Options & Accessories

The 2190/2290 Series offers a combination of finish and handle options that will satisfy any design or function requirement. Designer handles are available in 11 different styles to blend with existing architecture or create a new design statement.

	OPTION	DESCRIPTION
	<b>Standard Series 01</b>	Standard lever, curved
	<b>Standard Series 02</b>	Standard lever, round
	<b>Standard Series 03</b>	Standard lever, square
	<b>Aventura Series ME</b>	Studio Collection designer lever
	<b>Aventura Series MG</b>	Studio Collection designer lever
	<b>Aventura Series MI</b>	Studio Collection designer lever
	<b>Aventura Series MW</b>	Studio Collection designer lever

	OPTION	DESCRIPTION
	<b>Centro Series MD</b>	Studio Collection designer lever
	<b>Centro Series MJ</b>	Studio Collection designer lever
	<b>Odeon Series MN</b>	Studio Collection designer lever
	<b>Odeon Series MV</b>	Studio Collection designer lever



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Printed in the U.S.A.

Patent pending and/or patent [www.assaabloydss.com/patents](http://www.assaabloydss.com/patents).

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