7250M(F)(WS) SquareBolt® Exit Device Series
Installation Instructions
(Single Doors or Pairs with Mullion)
Patent 5,605,362

7250M: Panic Label
7250MF: Fire Label
7250M(F)WS: Windstorm Label

Packed for reinforced metal doors. Optional sex nuts required for composite, wood and unreinforced metal doors.

NOTE: These installation instructions cover only standard products. To install options use installation instructions packed with optional component, or contact the factory.

For Doors of Either Hand

Outside Trim
Device is packed ready for any Yale 500F, 510F or 480F.

Fire Rated Application
757F Strike (Standard for Fire Rated product)

Windstorm Application
757(F)WS Strike (Standard for Windstorm product)

Fire Rated Application
757F Strike
Supplied With Fire Mullion

Windstorm Application
757(F)WS Strike
Supplied With Windstorm Device

Address Installer
Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Yale Locks & Hardware makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

All dimensions are in inches (mm) unless otherwise noted.
Shim Kit Options

7250M Windstorm Kit: Model Number: 723NSWS
Black Finish
Kit consists of (3) Latch Head Shims (Device Cover seats on shims), (3) End Clamp Shims (End Cap seats on shims), and longer fasteners.
Note: Shim Kit required for Windstorm application.

Raised Glass Kit: Model Number: 723NS Black Finish
Kit consists of Latch Head Shim (Device Cover seats on shim) and End Clamp Shim (End Cap seats on shim).

More than two Shim Kits require longer device mounting screws (not included).

Each shim is 1/8" (3.2) thick.

<table>
<thead>
<tr>
<th>Shim Kit Options</th>
<th>1/4-20 Sex Nut Option</th>
<th>Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1. Periodically remove covers and coat mechanisms with a silicone base lubricant. This is particularly required in corrosive environments for proper product function.</td>
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<tr>
<td></td>
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<td>2. Check mounting fasteners periodically. Retighten if found loose. Apply screw locking compound (available at automotive part stores) or change part fasteners if screws continue to back out.</td>
</tr>
<tr>
<td></td>
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<td>3. Periodic checks and adjustments of rods may be required to compensate for changes in the opening (e.g.: door sagging, etc.).</td>
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</table>

1. Mark Door

Locate and Mark Horizontal and Vertical Reference Centerlines as shown.

Note: For Pair without Mullion follow instructions packed with 793 Strike.

2. Prepare Door & Frame

A. Seat template on door and stop faces.
B. Align template with horizontal and vertical device centerline on door. Tape template in place.
C. Locate and tape Trim template on door. (See instructions packed with trim.)
D. Spot and prepare holes.

Device: (2) 1/4-20 Machine Screws*, or (2) 3/8" (9.5) Dia Sex Nuts and Bolts.
Strike: (2) 10-24 Machine Screws, or (2) #10 Wood Screws.

Note: (*)Metal reinforced doors only.

Caution: The use of Shims (i.e.: Raised Glass or Windstorm) requires shifting location of Strike away from the door. (See Door Marker Template for details).
3. Size Device

Device must be field cut to size unless standard opening and device are 36" (0.91m).

LHR DOOR INSIDE FACE

Align mounting holes in door with mounting holes in device
Align horizontal line on door with edge of device

No gap between
end cover &
touch bar

Mark cutoff line. Cut square on line.

Dogging Hole

Min. to Stile Edge 1/2
(13)

Min. 3/4
(19)

1-15/16
(49)
Minimum

3/4
(19)

1-11/16
(43)
Standard

4. Clear Raised Door Molding

Device must seat flush on door surface or on shims that keep it parallel to door face.

(1) Shim Kit #723NS per 1/8" (3mm) of raised molding

(1) Shim Kit #723NS required for each 1/8" (3mm) of device lift needed. Longer device mounting screws needed when more than (2) shim kits are used. See Shim Kits Option on page 2.

5. Install Device

A. Mount trim (follow instructions packed with trim).
B. Seat bar in place. Fasten device head (2 PRHMS or SNB).
C. Set bar level. Locate end clamp holes.
D. Prepare end clamp mounting holes. Mount end clamp.
   2 #1/4-20 PRHMS or 3/8" (10) dia. SNB
E. Check bolt retraction.
   1. Depress touchbar (bolts must retract). Release touchbar (bolts must extend).
   3. (NOT FOR FIRE DEVICES). Depress touchbar, turn dogging key clockwise (bar must remain depressed, bolts must remain retracted). Turn dogging key counterclockwise (bar and bolts must return to extended position).
F. Tighten all mounting screws.

NOTE: When resulting operation is faulty, check first for visible binding or interference. If there is no apparent reason for the fault, remove item from the door and recheck its operation before assuming that it is defective.
6. Install Strike

A. Position strike projection (strike + locking plate + shims, if needed). See Detail A.
B. Position strike depth. See Detail B.
C. Fasten strike securely, as shown on Detail C.
D. Check bolt engagement.
   1. Bolt should retract to clear the strike, when actuated by bar, trim, or dogging action. Bolt should consistently reengage the strike, when actuators are released and the door shuts.
   2. Door should remain latched and not rattle when pushed, pulled, or shaken in/out.
E. Lock strike into place. For Fire application see Detail E1, for Windstorm application see Detail E2.
   1. Fire Strike Application: Spot and prepare (1) hole using the strike as a template and install strike center screw (1) 10-24 x 3/4" PFHMS.
   2. Windstorm Strike Application: Spot and prepare (2) holes using the strike as a template. Drill through the strike shims and locking plate (when required), then install (2) 10-24 x 1" PFHMS strike locking screws.
F. Install interlock bracket (Fire Mullion). See Detail F.
   1. Position strike interlock bracket in place, as shown. Locate bracket holes.
   2. Prepare interlock bracket mounting holes. Mount interlock bracket using (43) 10-24 x 1" PFHMS or SNB).
   NOTE: Interlock bracket and screws supplied with fire mullion.
G. Install interlock bracket (Windstorm Device). See Detail F.
   1. Position strike interlock bracket in place, as shown. Locate bracket holes.
   2. Prepare interlock bracket mounting holes. Mount interlock bracket using (4) 10-24 x 1" FHMS or SNB).
   NOTE: Interlock bracket and screws supplied with Windstorm Product supercedes interlock bracket supplied with Fire Mullion (remove and discard when applicable).

7. Install Cover & End Cap

(2) 8-32 PFHUMS
(3) 8-32 PFHUMS
Notes:
1. Unreinforced Frames require that 10-24 blind rivet nuts (by others) be used to bolt strike. Frames are considered not reinforced when strike mounting screws cannot engage (3) full threads.
2. Dimensions are given in inches (mm).
3. **CAUTION:** Office copiers, printers and facsimile machines may change the size of a drawing and make the template inaccurate to use as a door marker.

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### 7250M(F)(WS) Series Square Bolt Exit Devices Template

**Frame Stop or Mullion Face** (Strike Seat)

Adjust Hole "B" location equal to the thickness of shims required.

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**LHR Door**

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### Door Inside Face Surface (Device Seat)

Adjustment for Raised Glass and Windstorm Applications ONLY

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**Notes:**

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<th>FASTENER</th>
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| A, X*| Metal Reinforced | 1/4-20 PRHMS| Drill: #7 (.201" dia.)  
Tap: 1/4-20 |
|      | All Others       | 1/4-20 SNB  | 3/8" (9.5mm) dia. Thru door             |
| B    | Metal Reinforced | 10-24 PFHMS | Drill: #26 (.147" dia.)  
Tap: 10-24 |
|      | Solid Hardwood   | #10x1-1/4" PFHWS | Pilot Hole: 11/64" (4.40mm) dia. |
|      | All Others       | See Note 1  | As required for blind nut used.         |
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Notes:
1. Unreinforced Frames require that 10-24 blind rivet nuts (by others) be used to bolt strike. Frames are considered not reinforced when strike mounting screws cannot engage (3) full threads.
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