

# Architectural Door Accessories

**ASSA ABLOY**

## McKinney 1502 Single Acting Spring Hinge Installation for Fire Rated Doors

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### Before Installation:

As established in the National Fire Protection Code 80 (NFPA #80) a minimum of two spring hinges are required for fire labeled door installations. However, three spring hinges may be required depending on size and weight of door, hinge size and hinge type.

For doors with a thickness of 1-3/8" and maximum of 32" wide x 84" high, use a 3-1/2" spring hinge.

For doors up to 60" high requiring three hinges, at least two of the three must be spring hinges.

Size of Spring	Maximum Door Weight (lb)	Number of Spring Hinges
4-1/2" x 4" x .134	70	1
4-1/2" x 4-1/2" x .134	90	2
4-1/2" x 4-1/2" x .134	120	3

### Installation:

1. Mount hinges by matching hinge leaf hole pattern to door. Match the other leaf (with the "UL" logo) to jamb. NOTE: Adjustment end may be down.
2. Place door in closed position. Insert allen wrench in hex adjustment hole as shown.
3. If adjustment end is up, turn allen wrench counter clockwise to desired spring tension. If adjustment end is down, turn allen wrench clockwise to desired spring tension.

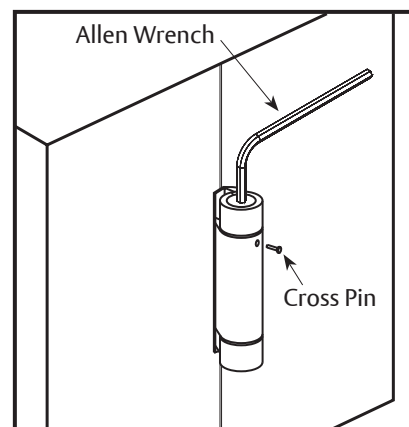


**Caution:** Do not exceed three holes of tension for doors opening to 180 degrees. Do not exceed five holes (seven holes for 4.5") of tension for doors opening to 90 degrees.

4. Insert cross pin when holes in center stud align with hinge knuckle. Slowly release pressure on allen wrench.
5. Remove allen wrench and test closing action of door.
6. Repeat steps 1 - 4, if necessary, to increase spring tension.

### Notes:

- To make tension adjustment tamper proof, snip off cross pin at break-away head. However, if future, adjustment may be needed, do not remove head.
- Adjust spring hinge to minimum tension required to close door. Over-tensioning will reduce spring life.



ARCHITECTURAL DOOR ACCESSORIES™

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