

# Full Mortise Hinges



Spring Hinge • Full Mortise • Template • Single Acting

For automatic closing of door. Meets codes for hotels, motels, institutions and commercial buildings

**1150 - Square Corner**  
Stainless Steel with stainless steel components **ANSI K51071F**

Sizes: 4 1/2 x 4 (114 x 102 mm), 4 1/2 x 4 1/2 (114 x 114 mm)

**1250 - Square Corner**  
**Steel ANSI K81071F**

Sizes: 3 1/2 x 3 1/2 (89 x 89 mm), 4 x 4 (102 x 102 mm), 4 1/2 x 4 (114 x 102 mm), 4 1/2 x 4 1/2 (114 x 114 mm)

**1251 - 1/4" Radius**  
**Steel ANSI K81071F**

Sizes: 3 1/2 x 3 1/2 (89 x 89 mm), 4 x 4 (102 x 102 mm), 4 1/2 x 4 (114 x 102 mm), 4 1/2 x 4 1/2 (114 x 114 mm)

**1252 - 5/8" Radius**  
**Steel ANSI K81071F**

Sizes: 3 1/2 x 3 1/2 (89 x 89 mm), 4 x 4 (102 x 102 mm), 4 1/2 x 4 (114 x 102 mm), 4 1/2 x 4 1/2 (114 x 114 mm)

**1255 - Square Corner Spring Hinge Set**  
**ANSI K81071F**

Sizes: 4 1/2 x 4 1/2 (114 x 114 mm). Two each 1250 and one each AB700.

**1256 - Square Corner Spring Hinge Set**  
**ANSI K81071F**

Sizes: 4 1/2 x 4 1/2 (114 x 114 mm). Two each 1250 and one each BB1279.

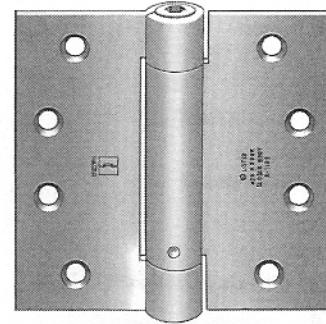
**Maximum Door Size**

For labeled doors 3' x 7' the maximum door size is based on the limits set forth by NFPA Standard #80. Labeled Doors require Ball Bearing hinges.

For non-labeled doors 4'0" wide, 4" x 4" Spring hinges are not recommended. For non-labeled doors over 7'6" in height, use an additional hinge for each additional 30" of height or fraction thereof.

**NOTES:**

1. For maximum versatility use all spring hinges or a combination of spring hinges and ball bearing hinges. Do not use plain bearing hinges.
2. Full spring tension may not be required on all hinges.
3. Strong wind conditions, drafts, carpeting drag, twisted/misaligned frames, or weatherstripping on doors may require additional spring hinges.



File # R-7189 416R

Series	Size	Recommended Max Door Weight (Lbs.)	Spring Hinge	Ball Bearing Hinge
<b>For Use on 1 3/8" (35 mm) Door</b>				
1250	3 1/2 x 3 1/2	40	1	2
1251		70	2	1
1252		90	3	—
<b>For Use on 1 3/4" (45 mm) Door</b>				
1250	4 x 4	60	1	2
1251		85	2	1
1252		110	3	—
1150	4 1/2 x 4 4 1/2 x 4 1/2	70	1	2
		115	2	1
		150	3	—
1250	4 1/2 x 4 4 1/2 x 4 1/2	70	1	2
		115	2	1
		150	3	—
1256	4 1/2 x 4 1/2	115	2	1

Hinge Size		Gauge of metal	Number of holes	Screw Size		Quantity		Avg weight per case (lbs)
Inches	Millimeters			Machine	Wood	Box	Case	Steel/Stainless Steel
3 1/2 x 3 1/2	89 x 89	0.134	6	1/2 x 10-24	1 x 9	2 each	40 each	27
4 x 4	102 x 102	0.134	8	1/2 x 12-24	1 x 9	3 each	40 each	33
4 1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1 1/4 x 12	3 each	40 each	47
4 1/2 x 4 1/2	114 x 114	0.134	8	1/2 x 12-24	1 1/4 x 12	3 each	40 each	47

Standard screw packaging on sizes 4 1/2 x 4 and 4 1/2 x 4 1/2 is all machine and 1/2 wood. Machine screws for 3 1/2 x 3 1/2 and 4 x 4 hinges packed upon request. Specify size.

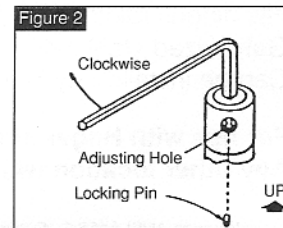
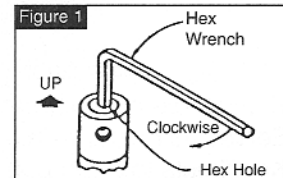
**GENERAL INSTALLATION INSTRUCTIONS:**

All steps must be followed to insure that the Hager Spring Hinge will function as designed.

1. Install spring hinge to door and frame at either top and bottom or center and bottom hinge locations. Then, install ball bearing in conjunction with 1250 Series. Check for proper door clearance. There should be at least 1/4" (6 mm) clearance at the bottom of the door for vacuum relief.
2. Open the door by hand to 90° angle, and push it closed. If the door latches, the hinges are ready to receive tension. If there is any resistance and the door does not latch, this indicates that the door is either out of balance or misaligned. This condition will have to be corrected before tension can be applied to the spring hinges.
3. Door weight should not exceed the recommended requirements. This includes all hardware and veneer.

**SPRING HINGE ADJUSTMENT INSTRUCTIONS:**

1. Install spring hinge in normal manner with the adjustment end up. Place door in closed position.
2. Insert Hex wrench in adjusting location. (Figure #1)
4. Rotate Hex wrench clockwise and insert locking pin loosely in adjusting hole. (Figure #2)
5. Release Hex wrench until locking pin contacts side of adjusting hole.
6. Remove Hex wrench and check the door closing force. If closing force is not satisfactory, repeat steps 2 thru 6.



- CAUTION #1:** Use proper safety protection while installing the Hager Spring Hinge.
- CAUTION #2:** Door should be in a closed position.
- CAUTION #3:** Do not adjust tension past two (2) holes when a 180° opening is required. Do not adjust tension past three (3) when a 90° opening is required.
- CAUTION #4:** Always rotate the Hex Wrench in a clockwise direction, regardless of right or left hand application.
- CAUTION #5:** On 3 1/2 x 3 1/2 - 1250 Series — Maintain Mortise Depth at .119" (3 mm).

Conforms to standards approved by ANSI A156.17.

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rev. 7/02

**EVERYTHING HINGES ON HAGER!**