



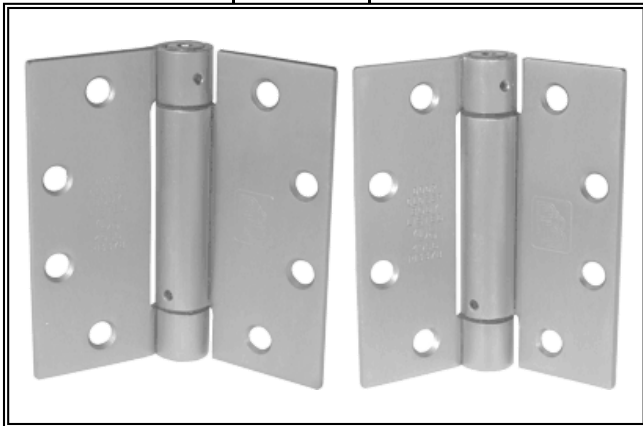
FULL MORTISE U.L. LISTED SPRING HINGE

STANDARD WEIGHT
4 1/2" x 4", 4 1/2" x 4 1/2"

[Installation Instructions](#)
[Reverse Action Installation Instructions](#)

Templates:

SP45



SP81 (ANSI K8107)
 Steel-Polished and Plated or Bonderized and Prime Coated for Painting.

SP51 (ANSI K5107)
 Stainless Steel-Polished and Satin Finish

- Spring hinge door closer Model K8107/K5107 passed a 1,000,000 cycle UL test in accordance with Underwriters Laboratories for door closers, with or without integral smoke detectors.

- UL listed for doors up to 4' x 8', weighing up to 180lbs.

GENERAL PRODUCT INFORMATION: PBB, Inc. template hinges are manufactured to close tolerances and meet all specifications and requirements set by the American National Standards Institute (ANSI).

OTHER SPECIFICATIONS:
 Height of hinge:
 4.50 (+.000/-0.015) for 4-1/2" x 4"
 4.50 (+.000/-0.015) for 4-1/2" x 4-1/2"



HINGE SWAGING: A standard swaging of our standard weight full mortise hinge when closed to parallel position provides a 1/16" clearance between leaves.

Width:
 4.00 ± .015 for 4-1/2" x 4"
 4.50 ± .015 for 4-1/2" x 4-1/2"

MATERIAL GAUGE:
 .134 ± .005 for 4-1/2" x 4"
 .134 ± .005 for 4-1/2" x 4-1/2"

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.

Both models comply and meet ANSI/BHMA specifications for ANSI/BHMA A156.17 Grade 1 and bear U.L.'s listing mark.

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.

All hinges are ANSI template.

SERIES	SIZE	RECOMMENDED MAX DOOR WEIGHT (LBS.)	SPRING HINGE	BUTT HINGE
FOR USE ON 1 3/4" DOOR				
SP81	4 1/2 " x 4 " 4 1/2 " x 4 1/2 "	70	1	2
		100	2	1
		150	3	-

4-1/2" STANDARD SCREW SIZE

FHMS - 12-24 x 1/2"
FHWS - 12 x 1-1/4"

NOTES:

1. For complete warranty protection use all spring hinges or a combination of spring hinges and ball bearing hinges. Do not use plain bearing hinges as this voids all factory warranties.

2. Use of gasket for smoke or sound protection, wind condition or unbalanced air pressure may prevent door from latching. Additional closing power would be required. See installation instruction sheet.

PACKAGING INFORMATION:

One hinge per plastic bag, 3 hinges and 1 screw pack per unit carton.

16 unit carton or 48 hinges per master shipping carton.

1 screw pack includes all machine screws (24), and 1/2 wood screws (12). ATMS & AWS also available.