

Choosing the Right Hinge and the Right Number of Hinges

The nomograph below has been developed to assist you in determining the correct size and number of hinges for your installation.

If the information you need is not on the chart, consult the factory.

The general rule used to determine the number of hinges is:

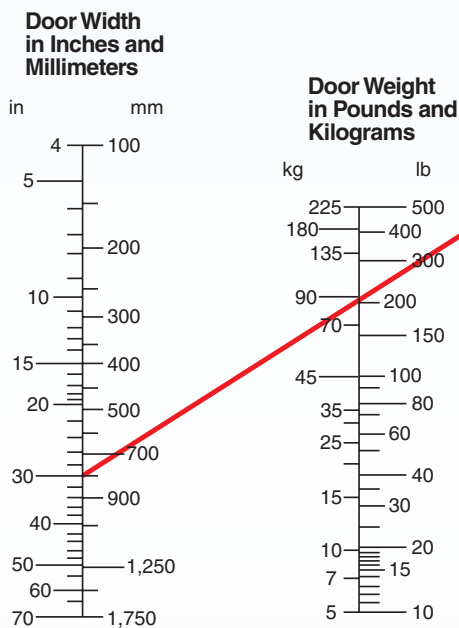
Every door should be provided with at least one hinge for every 30 inches in height or portion thereof; however, more hinges may be required per chart below.

For example, a 90" door needs three hinges and a 91" door needs four.

DIRECTIONS

After determining the weight and width of the door, draw a straight line through the door width and weight to line "A", as indicated in the example. Continue with a horizontal line sideways from the point of intersection with line "A" until the door thickness is reached. Use the number of hinges and the model number indicated on this line.

To use this chart as a working guide, we suggest that you photocopy this page.



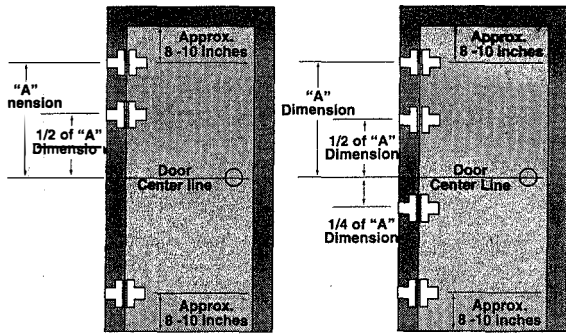
NOTE: For Fire-Rated Hinges, use formulas described on page 38.

EXAMPLE

A wood door 30" wide, 200 lbs., with a thickness of 1 3/4" will require four #218 SOSS Invisible Hinges. The red line shows how the sizing and selection were determined from the nomograph.

The nomograph above has been developed to assist you in determining the correct size and number of hinges for your installation.

Hinge Number	114	314	205	106	100	101	303	103	203	204	208	212	216	218	220	
Door Material	METAL				WOOD & METAL											
Minimum Door Thickness	9/16		5/8		1/2		11/16		3/4		1		1 1/8		1 3/4	
	14.29mm		15.88mm		12.70mm		17.46mm		19.05mm		25.40mm		28.56mm		34.93mm	
Number of Hinges Required	4		4		4		4		4		4		4		4	
	3		3		4		3		3		3		3		2	
	2		2		2		2		2		2		2		2	
Hinge Number	114															



Door Thickness Required: 1-3/4" Minimum to 2" Maximum

Recommended Spacing of SOSS® Hinge

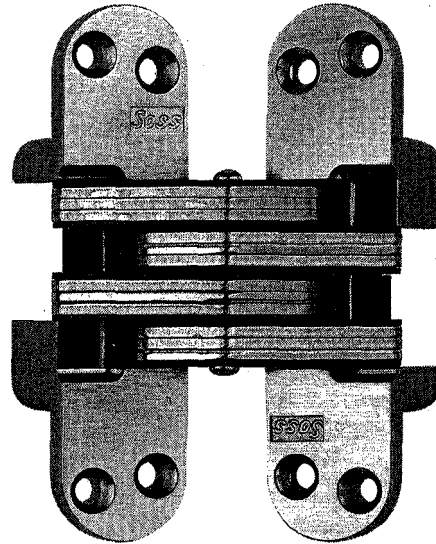
Notice in the illustration showing three hinges, that the "center" hinge is not shown in the usual location near the center of the door. The "center" hinge should be located one-half the distance from the horizontal center line of the door to the center line of the top hinge.

On installations requiring four SOSS Invisible Hinges, the second hinge from the top should be located one half the distance from the door's horizontal center line to the center line of the top hinge. The third hinge from the top should be located one-quarter of the "A" dimension below the horizontal centerline of the door.

NOTE:

For spacing information beyond what is shown, look up our website at www.soss.com.

*Instructions for mounting
SOSS® Invisible Hinge®
#218
Intended for 1-3/4" thick doors*



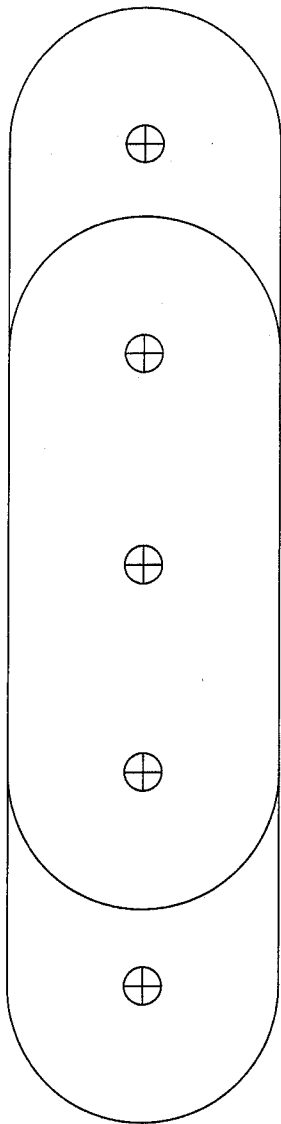
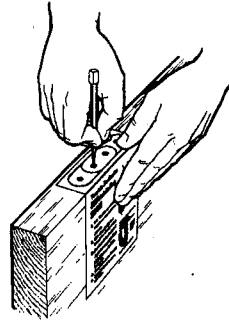
*Congratulations!
You have just purchased the
SOSS® Invisible Hinge.
Smooth, secure and beautiful.*

US-19 Finish



*Template for mounting
SOSS® Invisible Hinge®*

#218



1. Fold template on solid line and place on side of door in direction of swing.
2. With sharp point, pierce through five cross hairs for centers.
3. Use 1-1/8" boring bit. Bore two end holes 13/32" deep and the center three holes 1-21/32" deep.
4. Connect holes with chisel or router to form mortise.
5. Caution—Do not hammer or force hinge.
6. Drill pilot holes for screws. Use a No. 43 (.0890") drill bit for soft wood or No. 31 (.1200") for hard wood. Use a #3 Phillips screwdriver for the enclosed #10 x 1-1/2" wood screws.
7. Lubrication may be used.

UIIP

Universal Industrial Products, Inc.
P.O. Box 628
Pioneer, OH, USA 43554-0628
Email: hinges@sooss.com
Internet: www.soss.com

© Copyright 2007, Universal Industrial Products, Inc.