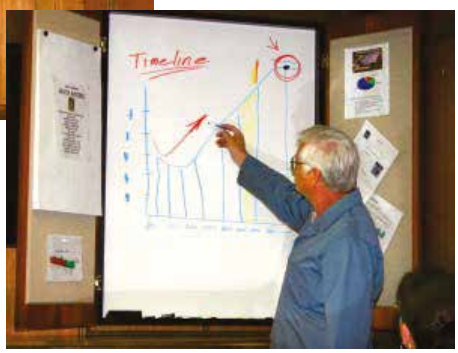
For Wood or Metal

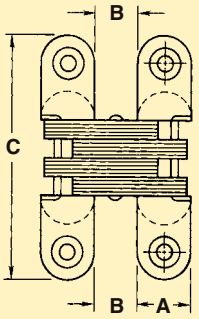
Hinge illustrations are shown half size.

Dimension	100	101	103	303	203	204	208
A	3/8"(9.53mm)	3/8"(9.53mm)	1/2"(12.70mm)	1/2"(12.70mm)	1/2"(12.70mm)	1/2"(12.70mm)	5/8"(15.8mm)
B	9/32"(7.14mm)	19/64"(7.54mm)	3/8"(9.53mm)	3/8"(9.53mm)	23/64"(9.13mm)	23/64"(9.13mm)	29/64"(11.51mm)
C	1"(25.40mm)	1 11/16"(42.86mm)	1 1/2"(38.10mm)	1 1/2"(38.10mm)	1 3/4"(44.45mm)	2 3/8"(60.33mm)	2 3/4"(69.85mm)
D	3/32"(2.38mm)	7/64"(2.78mm)	1/8"(3.18mm)	1/8"(3.18mm)	7/64"(2.78mm)	7/64"(2.78mm)	9/64"(3.57mm)
E	3/32"(2.38mm)	3/32"(2.38mm)	1/8"(3.18mm)	1/8"(3.18mm)	1/8"(3.18mm)	1/8"(3.18mm)	5/32"(3.97mm)
F	3/8"(9.53mm)	7/8"(22.23mm)	11/16"(17.46mm)	39/64"(15.08mm)	3/4"(19.05mm)	1 1/4"(31.75mm)	1 11/32"(34.13mm)
G	1/32"(.79mm)	1/32"(.79mm)	1/32"(.79mm)	1/32"(.79mm)	1/32"(.79mm)	1/16"(1.59mm)	3/64"(1.19mm)
H	15/32"(11.91mm)	29/64"(11.51mm)	19/32"(15.08mm)	21/32"(16.68mm)	23/32"(18.26mm)	23/32"(18.26mm)	29/32"(23.02mm)
I	15/64"(5.96mm)	7/32"(5.56mm)	7/32"(5.56mm)	.054"(1.37mm)	3/16"(4.76mm)	1/4"(6.35mm)	9/32"(7.14mm)
Min. Matl. Thickness	1/2"(12.70mm)	1/2"(12.70mm)	3/4"(19.05mm)	11/16"(17.46mm)	3/4"(19.05mm)	3/4"(19.05mm)	1"(25.40mm)
Wood Screw Sizes	#5x3/4"(3.5x19mm)	#5x3/4"(3.5x19mm)	#6x1"(3.5x25mm)	#5x3/4"(3.5x19mm)	#6x1"(3.5x25mm)	#7x1 1/4"(3.9x32mm)	#8x1 1/4"(4.2x32mm)
Soft Wood Pilot Hole	No. 53	No. 53	No. 52	No. 53	No. 52	No. 51	No. 48
Hard Wood Pilot Hole	No. 47	No. 47	No. 44	No. 47	No. 44	No. 39	No. 35
Machine Screw Sizes	#4-40x1/2"	#4-40x1/2"	#6-40x1/2"	#5-40x1/2"	#6-40x1/2"	#8-32x5/8"	#8-32x5/8"
Hinge Weight	.04 lb.	.07 lb.	.09 lb.	.05 lb.	.11 lb.	.20 lb.	.34 lb.

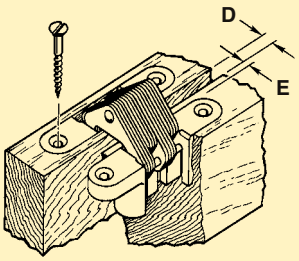
Note: Refer to page 15 for assistance with choosing the right hinge for the job.

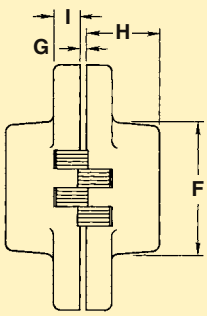


Soss Invisible Hinge #204 used in the Visible Presentation Board, manufactured by Nucraft Furniture, www.nucraft.com, 877-682-7238.



Key to Dimensions Shown in Charts

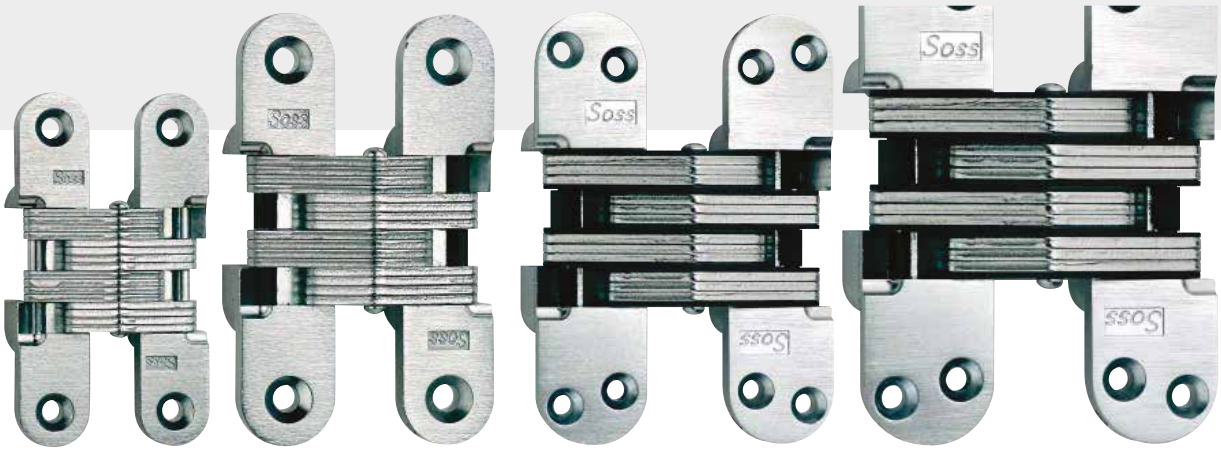




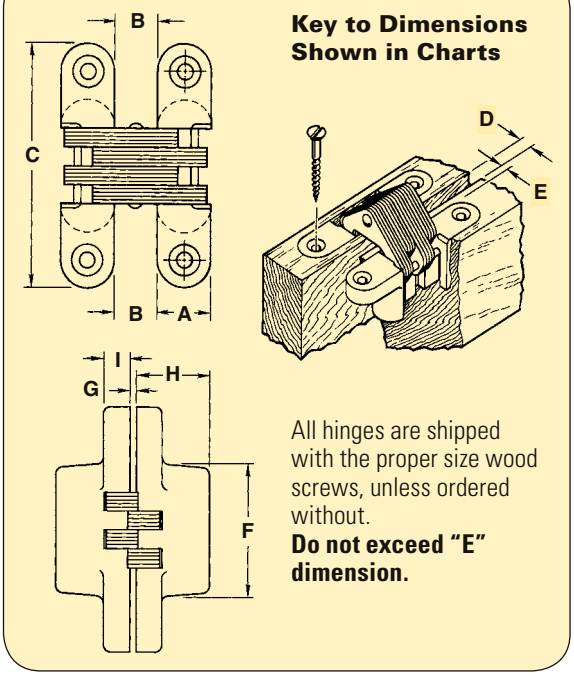
All hinges are shipped with the proper size wood screws, unless ordered without.
Do not exceed "E" dimension.

For Wood or Metal

Hinge illustrations are shown half size.



Dimension	212	216	218/218FR	220/220FR
A	3/4"(19.05mm)	1"(25.40mm)	1 1/8"(28.58mm)	1 3/8"(34.93mm)
B	17/32"(13.49mm)	23/32"(18.26mm)	7/8"(22.23mm)	1 1/16"(26.99mm)
C	3 3/4"(95.25mm)	4 5/8"(117.48mm)	4 5/8"(117.48mm)	5 1/2"(139.70mm)
D	5/32"(3.97mm)	7/32"(5.56mm)	3/8"(9.53mm)	1/2"(12.70mm)
E	3/16"(4.76mm)	1/4"(6.35mm)	1/4"(6.35mm)	9/32"(7.14mm)
F	2 1/16"(52.39mm)	2 19/32"(65.88mm)	2 7/16"(61.91mm)	2 15/16"(74.61mm)
G	3/64"(1.19mm)	1/16"(1.59mm)	1/16"(1.59mm)	1/16"(1.59mm)
H	15/64"(27.38mm)	1 7/16"(36.51mm)	1 41/64"(41.67mm)	1 15/16"(49.21mm)
I	3/8"(9.53mm)	15/32"(11.91mm)	13/32"(10.32mm)	15/32"(11.91mm)
Min. Matl. Thickness	1 1/8"(28.58mm)	1 3/8"(34.93mm)	1 3/4"(44.45mm)	2"(50.80mm)
Wood Screw Sizes	#10x1 1/4"(4.8x32mm)	#14x1 1/2"(6.3x38mm)	#10x1 1/2"(4.8x38mm)	#12x1 1/2"(5.5x38mm)
Soft Wood Pilot Hole	No. 43	No. 32	No. 43	No. 38
Hard Wood Pilot Hole	No. 31	No. 10	No. 31	No. 25
Machine Screw Sizes	#10-24x 3/4"	#1/4-20x1"	#10-24x1"	#12-24x1"
Hinge Weight	.75 lb.	1.65 lb.	1.86 lb.	3.15 lb.



Key to Dimensions Shown in Charts

All hinges are shipped with the proper size wood screws, unless ordered without.
Do not exceed "E" dimension.

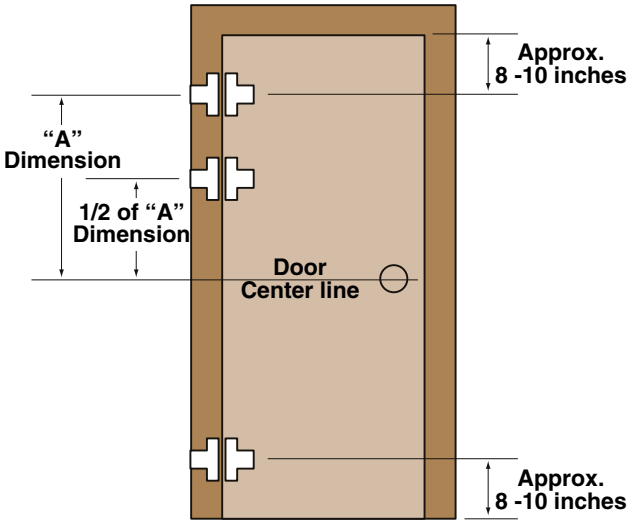
Note: Refer to page 15 for assistance with choosing the right hinge for the job. Refer to page 8 for FR (Fire Rated) information.

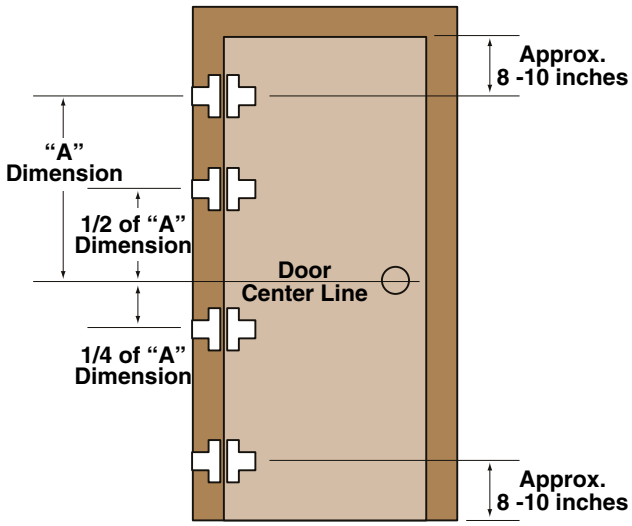
SOSS Invisible Hinge #220 used in Modernfold® Moving Walls to provide a projectionless, smooth look that is also tamper-proof and provides extra safety.

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.

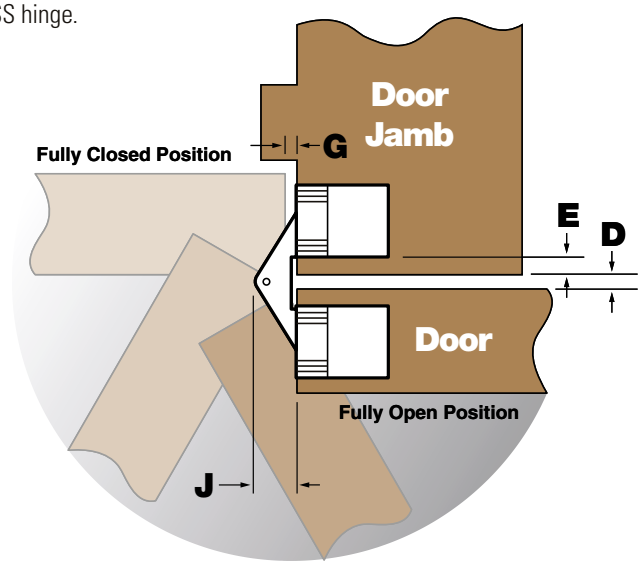
Note:
For spacing information beyond what is shown, look up our website at www.soss.com. Click on "Product Information" then click on "CAD Drawings", then click on your choice of file for the "Vertical Hinge Location on Door".





Path & Clearance for Doors

The diagram below shows the typical path of a SOSS hinged door. The table shows the door clearance when fully opened for each SOSS hinge.



SOSS Hinge No.	Dimension							
	E		D		G		J	
	in	mm	in	mm	in	mm	in	mm
101	3/32	2.4	7/64	2.78	1/32	0.8	3/16	4.72
103	1/8	3.2	1/8	3.18	1/32	0.8	1/4	6.35
303	1/8	3.2	1/8	3.18	1/32	0.8	1/4	6.35
314	5/32	4.0	1/8	3.18	3/32	2.4	9/32	7.14
203	1/8	3.2	7/64	2.78	1/32	0.8	1/4	6.35
204	1/8	3.2	7/64	2.78	1/16	1.6	1/4	6.35
208	5/32	4.0	9/64	3.57	3/64	1.2	5/16	7.94
212	3/16	4.8	5/32	3.97	3/64	1.2	13/32	10.32
216	1/4	6.4	7/32	5.56	1/16	1.6	9/16	14.29
218	1/4	6.4	3/8	9.53	1/16	1.2	17/32	13.49
220	9/32	7.1	1/2	12.7	1/16	1.6	11/16	17.42

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 off the chart, consult the factory.

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

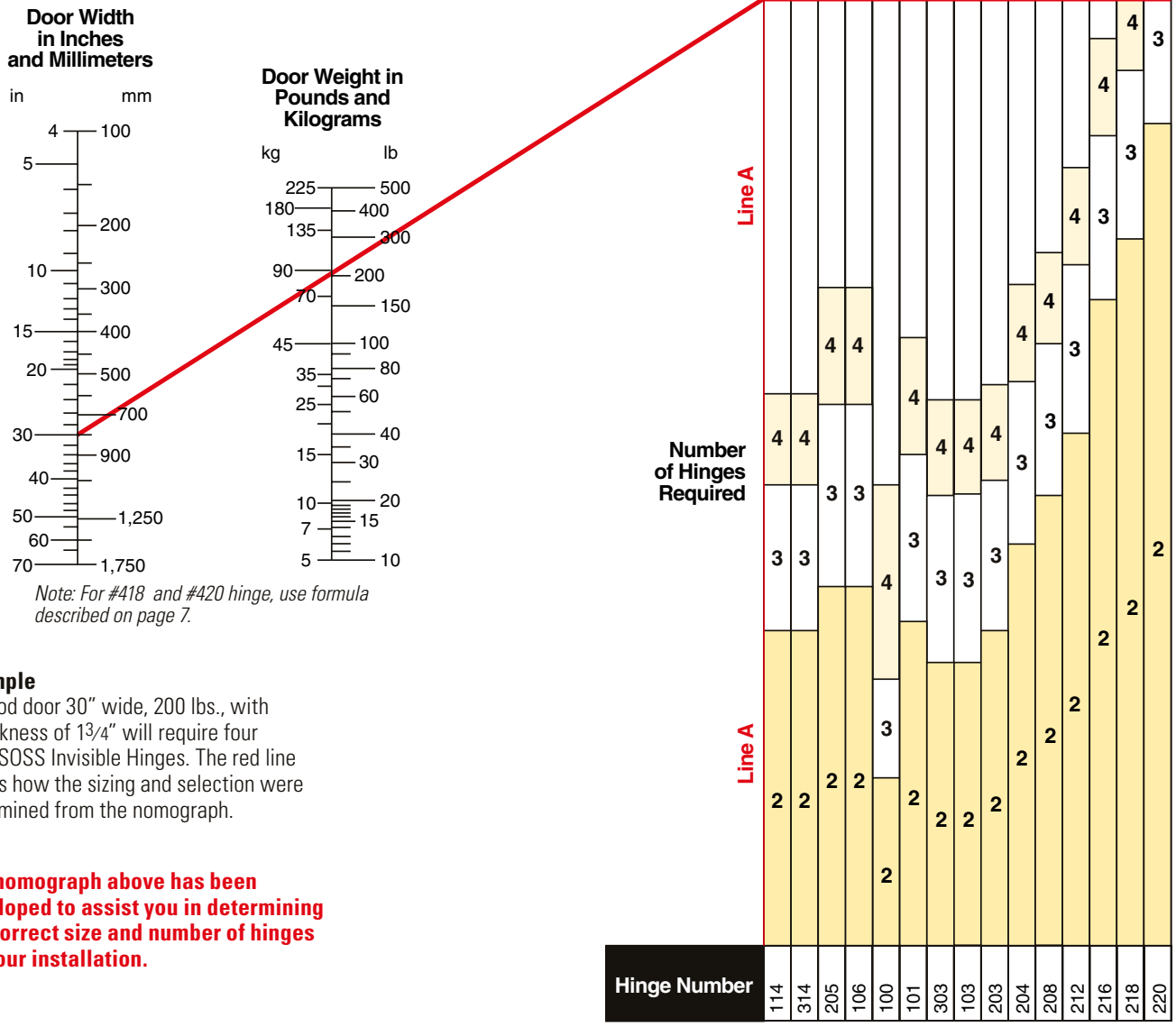
Every door should be provided with at least one hinge for every thirty inches in height or portion thereof; however, more hinges may be required per chart below.

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 #418 and #420 hinge, use formula described on page 7.

Example

A wood door 30" wide, 200 lbs., with a thickness of 1¾" 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.