

New! SOSS Hercules Hinge®

The new SOSS Hercules Hinges® are ideal for doors of extreme weight or size. They can be used in place of standard model #218 or #220 invisible hinges when the use of fewer hinges is needed.

For example, a standard 80" tall, 36" wide, 1-3/4" door that weighs 150 lbs, normally needs four model #218 SOSS Invisible Hinges. With the SOSS Hercules Hinge® model #218H on this size door, only two hinges are required.

SOSS Hercules Hinges are currently available in three popular finishes; Satin Chrome (US26D), Satin Brass (US4), and Satin Nickel (US15).

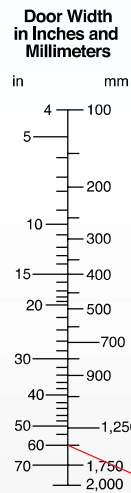
For assistance with choosing the correct number of SOSS Hercules Hinges, please consult the factory.



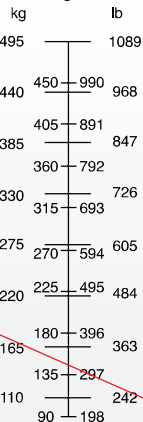
Hinge #	Description	Door Material	Fire Rating*	Min. Door Thickness
218H	Solid alloy steel body & links, similar to model #218	Wood/Metal	2 Hour	1 3/4"
220H	Solid alloy steel body & links, similar to model #220	Wood/Metal	2 Hour	2"

*Rating is in accordance with BS EN 1634-1 standards. These hinges are not UL fire rated.

This sizing chart is intended for doors that exceed sizing chart on page 51.



Hercules Hinge Door Weight in Pounds and Kilograms

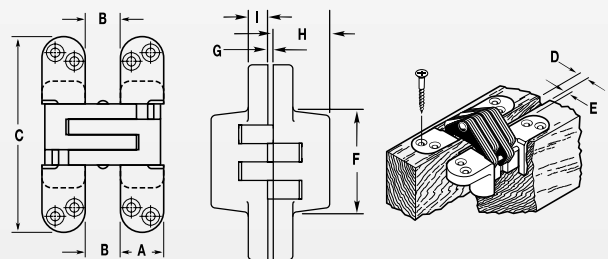


Example:
A 60" wide door weighing 300 lbs. would require four #218H or three #220H Hercules Hinges. The red line shows how the sizing and selection were determined from the sizing chart.

Hinge Number	218H	220H
Number of Hinges Required	12	10
kg	495	1089
lb	450	990
	440	968
	405	891
	385	847
	360	792
	330	726
	315	693
	275	594
	220	495
	225	484
	180	396
	165	363
	135	297
	110	242
	90	198
Hinge Number	218H	220H

Dimension	218H	220H
A	1 1/8" (28.58 mm)	1 3/8" (34.93 mm)
B	5 5/64" (21.83 mm)	1 1/16" (26.99 mm)
C	4 39/64" (117.08 mm)	5 1/2" (139.70 mm)
D	2 3/64" (9.13 mm)	1/2" (12.70 mm)
E	1/2" (6.35 mm)	9/32" (7.14 mm)
F	2 7/16" (61.91 mm)	2 31/62" (75.41 mm)
G	1/16" (1.59 mm)	3/32" (2.38 mm)
H	1 41/64" (41.67 mm)	1 5/64" (50.40 mm)
I	1 3/32" (10.32 mm)	1 5/32" (11.91 mm)
Minimum Material Thickness	1 3/4" (44.45 mm)	2" (50.80 mm)
Wood Screw Sizes	#10 x 2 1/2"	#12 x 2 1/2"
Soft Wood Pilot Hole	No. 43	No. 38
Hard Wood Pilot Hole	No. 31	No. 25
Machine Screw Size	#10-24 x 3/4"	#12-24 x 1"
Hinge Weight	2.15 lbs	3.80 lbs.

KEY TO DIMENSIONS SHOWN IN CHARTS

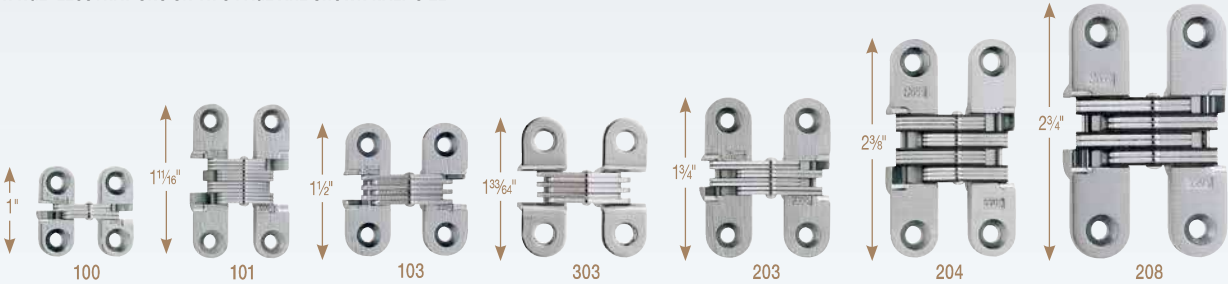


All SOSS Hercules Hinges are shipped with the proper size wood and machine screws unless ordered without. Do not exceed "E" dimension.

Specifications

FOR WOOD OR METAL APPLICATIONS

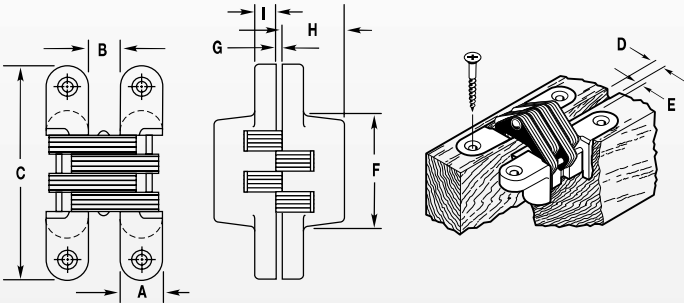
HINGE ILLUSTRATIONS ON THIS PAGE ARE SHOWN HALF SIZE.



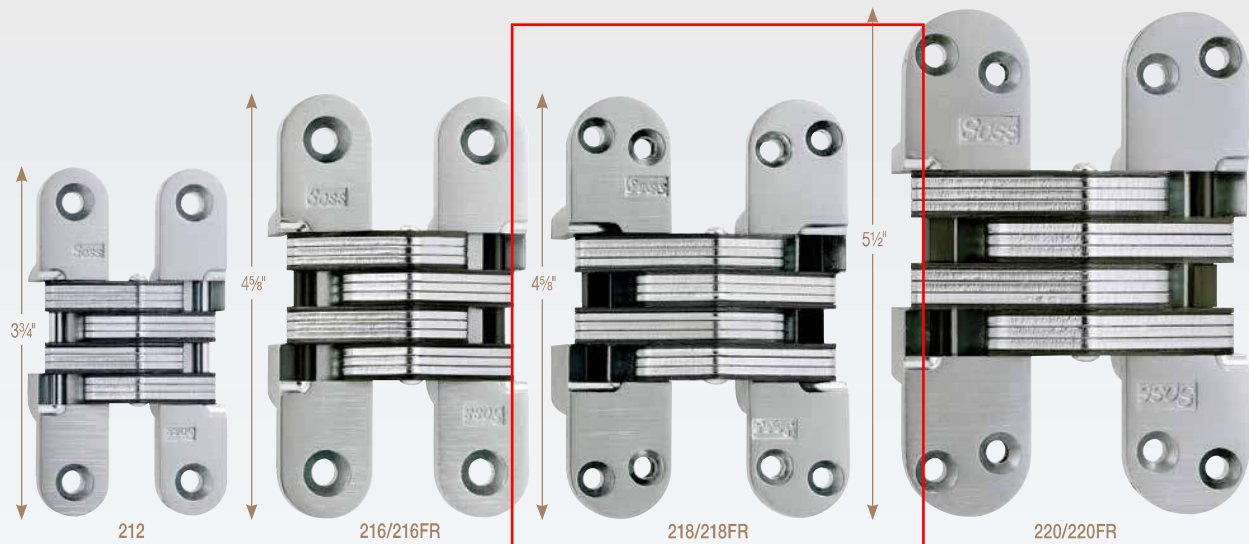
	Light Duty					Medium Duty	
Dimension	100	101	103	303	203	204	208
A	3⁄8"(9.53mm)	3⁄8"(9.53mm)	1⁄2"(12.70mm)	1⁄2"(12.70mm)	1⁄2"(12.70mm)	1⁄2"(12.70mm)	5⁄8"(15.8mm)
B	9⁄32"(7.14mm)	19⁄64"(7.54mm)	3⁄8"(9.53mm)	3⁄8"(9.53mm)	23⁄64"(9.13mm)	23⁄64"(9.13mm)	29⁄64"(11.51mm)
C	1"(25.40mm)	1 1⁄16"(42.86mm)	1 1⁄2"(38.10mm)	1 3⁄16"(38.50mm)	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)	1 1⁄16"(17.46mm)	1 9⁄32"(15.08mm)	3⁄4"(19.05mm)	1 1⁄4"(31.75mm)	1 11⁄32"(34.13mm)
G	1⁄32"(7.9mm)	1⁄32"(7.9mm)	1⁄32"(7.9mm)	1⁄32"(7.9mm)	1⁄32"(7.9mm)	1⁄32"(7.9mm)	3⁄64"(1.19mm)
H	1 5⁄16"(11.91mm)	2 3⁄64"(11.51mm)	1 9⁄32"(15.08mm)	4 1⁄64"(16.27mm)	2 3⁄32"(18.26mm)	2 3⁄32"(18.26mm)	2 3⁄32"(23.02mm)
I	1 5⁄64"(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)
Minimum Material Thickness	1⁄2"(12.70mm)	1⁄2"(12.70mm)	3⁄4"(19.05mm)	1 1⁄16"(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"	#8-32x3⁄8"	#8-32x3⁄8"
Hinge Weight	.04 lb.	.07 lb.	.09 lb.	.05 lb.	.11 lb.	.20 lb.	.34 lb.

NOTE: Refer to page 51 for assistance with choosing the right hinge for the job. Refer to inside back cover for color chips.

KEY TO DIMENSIONS SHOWN IN CHARTS



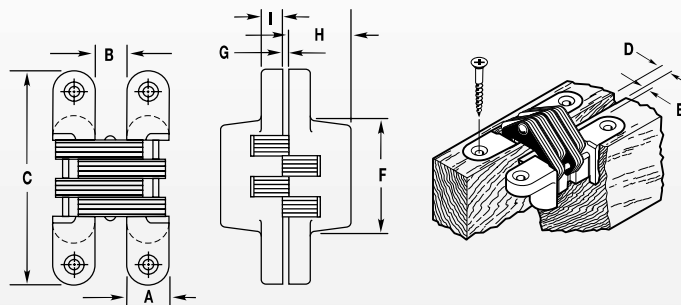
All hinges are shipped with the proper size wood screws unless ordered without. Machine screws available upon request for an additional charge. Do not exceed "E" dimension.



	Medium Duty		Heavy Duty	
Dimension	212	216/216FR	218/218FR	220/220FR
A	3/4" (19.05mm)	1" (25.40mm)	1 1/8" (28.58mm)	1 3/8" (34.93mm)
B	3 5/16" (13.89mm)	4 5/8" (18.65mm)	7/8" (22.23mm)	1 1/8" (26.99mm)
C	3 3/4" (95.25mm)	4 5/8" (117.48mm)	4 5/8" (117.48mm)	5 1/2" (139.70mm)
D	1 1/8" (4.37mm)	1 5/8" (5.95mm)	3/8" (9.53mm)	1/2" (12.70mm)
E	3/16" (4.76mm)	1/4" (6.35mm)	1/4" (6.35mm)	3/32" (7.14mm)
F	2 1/16" (52.39mm)	2 13/32" (65.88mm)	2 15/32" (62.71mm)	2 15/16" (74.61mm)
G	3/16" (1.19mm)	1/8" (1.59mm)	1/8" (1.59mm)	1/8" (1.59mm)
H	1 5/16" (27.38mm)	1 15/32" (37.31mm)	1 41/64" (41.67mm)	1 63/64" (50.40mm)
I	3/8" (9.53mm)	1 5/32" (11.91mm)	1 3/32" (10.32mm)	1 5/32" (11.91mm)
Minimum Material 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	#10-24x3/4"	#1/4-20x1"	#10-24x1"	#12-24x1"
Hinge Weight	.75 lb.	1.65 lb.	1.86 lb.	3.15 lb.

NOTE: Refer to page 51 for assistance with choosing the right hinge for the job.
Refer to page 40 for fire-rated information. Refer to inside back cover for color chips.

KEY TO DIMENSIONS SHOWN IN CHARTS



All hinges are shipped with the proper size wood screws unless ordered without. Machine screws available upon request for an additional charge. Models 216/216FR, 218/218FR and 220/220FR are shipped with the proper size wood and machine screws unless ordered without. Do not exceed "E" dimension.