NATIONAL

Appropriate Hinge Size for Doors

Hinge Information		Max. Door Weight	
Series	Size	2 Hinges	3 Hinges
508	1"	13 lb.	20 lb.
508	1 1/2" x 1 7/16"	13 lb.	20 lb.
516	1 1/2" x 1 7/16"	13 lb.	20 lb.
518	1"	13 lb.	20 lb.
518	1 1/2" x 1 7/16"	13 lb.	20 lb.
529	1 1/2" x 1 7/16"	13 lb.	20 lb.
475	1"	15 lb.	20 lb.
485	1 1/4" x 2 7/8"	15 lb.	20 lb.
455	1 1/2" x 1 11/16"	20 lb.	30 lb.
473	1 1/2" x 1 1/4"	20 lb.	30 lb.
508	2" x 1 9/16"	20 lb.	30 lb.
516	2" x 1 9/16"	20 lb.	30 lb.
518	2" x 1 9/16"	20 lb.	30 lb.
529	2" x 1 9/16"	20 lb.	30 lb.
629	2" x 2"	20 lb.	30 lb.
471	1 1/2" x 3/4"	25 lb.	37 lb.
471	2 1/2" x 3/4"	25 lb.	37 lb.
471A	1 1/2"	25 lb.	37 lb.
471B	1 1/2"	25 lb.	37 lb.
471C	1 1/2"	25 lb.	37 lb.
550	1 1/2"	30 lb.	45 lb.
552	1 1/2" x 4 3/8"	30 lb.	45 lb.
550	2"	35 lb.	50 lb.
552	2" x 5 3/8"	35 lb.	50 lb.
506	2"	40 lb.	60 lb.
508	2 1/2" x 1 11/16"	40 lb.	60 lb.
516	2 1/2" x 1 11/16"	40 lb.	60 lb.
518	2 1/2" x 1 11/16"	40 lb.	60 lb.
529	2 1/2" x 1 11/16"	40 lb.	60 lb.
629	2 1/2" x 2"	40 lb.	60 lb.
629	2 1/2" x 2 1/2"	40 lb.	60 lb.
506	2 1/2"	45 lb.	65 lb.
506	3"	50 lb.	75 lb.
513	3"	50 lb.	75 lb.
513	3 1/2"	50 lb.	75 lb.
508	3" x 2"	55 lb.	80 lb.
513	4"	55 lb.	80 lb.
516	3" x 2"	55 lb.	80 lb.
518	3" x 2"	55 lb.	80 lb.
529	3" x 2"	55 lb.	80 lb.

Hinge Information		Max. Door Weight	
Series	Size	2 Hinges	3 Hinges
506	3 1/2"	70 lb.	105 lb.
502	2"	75 lb.	110 lb.
504	2"	75 lb.	110 lb.
505	2"	75 lb.	110 lb.
560	2"	75 lb.	110 lb.
502	2 1/2"	85 lb.	125 lb.
504	2 1/2"	85 lb.	125 lb.
505	2 1/2"	85 lb.	125 lb.
560	2 1/2"	85 lb.	125 lb.
129	3 x 2 1/2"	90 lb.	135 lb.
502	3 x 2 1/2"	90 lb.	135 lb.
453	3"	100 lb.	150 lb.
504	3"	100 lb.	150 lb.
505	3"	100 lb.	150 lb.
512	3"	100 lb.	150 lb.
512	3 1/2"	100 lb.	150 lb.
560	3"	100 lb.	150 lb.
502	3"	110 lb.	165 lb.
512	4"	110 lb.	165 lb.
453	3 1/2"	140 lb.	210 lb.
453	4"	140 lb.	210 lb.
504	3 1/2"	140 lb.	210 lb.
504	4"	140 lb.	210 lb.
505	3 1/2"	140 lb.	210 lb.
505	4"	140 lb.	210 lb.
560	3 1/2"	140 lb.	210 lb.
560	4"	140 lb.	210 lb.
502T	3 1/2"	160 lb.	240 lb.
502T	4"	170 lb.	255 lb.
504	4 1/2"	180 lb.	270 lb.
505	4 1/2"	180 lb.	270 lb.
560	4 1/2"	180 lb.	270 lb.
502T	4 1/2"	180 lb.	270 lb.
504	5"	220 lb.	330 lb.
505	5"	220 lb.	330 lb.
560	5"	220 lb.	330 lb.
502T	5"	220 lb.	330 lb.
503T	4"	—	125 lb.
503T	4 1/2"	—	150 lb.

Frequency of Operation

Type of Building/Door	Approximated Frequency	
	Daily	Yearly
Large store entrance	5,000	1,500,000
Large office bldg. entrance	4,000	1,200,000
Theater entrance	1,000	450,000
School entrance	1,250	225,000
School door	1,250	225,000
Store or bank entrance	500	150,000
Office building door	400	118,000
School corridor door	80	15.000
Office bldg. corridor door	75	22,000
Store door	60	18,000
House entrance	40	15,000
House door	25	9,000
House corridor door	10	3,600
House closet door	6	2,200