

Rockwood Products Mounting Chart

ASSA ABLOY

The global leader in
door opening solutions

Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncld. Or Sfc.	Back to Back	Thru Bolt	Back to Back
Standards Pulls					
10-PB	N/A	2	N/A	N/A	N/A
11-PB	1	2	3 & 4	N/A	N/A
12-PB	1	2	N/A	N/A	N/A
14-PB & 15-PB	1	N/A	N/A	N/A	N/A
18-PB	1	2	3 & 4	N/A	N/A
19-PB	1	N/A	N/A	N/A	N/A
20-PB 21-PB 25-PB 26-PB	1	2	3	N/A	N/A
22-PB 23-PB	1	2	3	N/A	N/A
27-PB 28-PB 29-PB 30-PB (SETS)	N/A	N/A	3	N/A	N/A
31-PB 32-PB 33-PB 34-PB	1	2	4	N/A	N/A
35-PB 36-PB (SETS)	N/A	2	4	N/A	N/A
40-PB 41-PB 42-PB	N/A	2	N/A	N/A	N/A
43-PB	1	2	4	N/A	N/A
44-PB	1	N/A	N/A	N/A	N/A
45-PB	1	2	3	N/A	N/A
47-PB	1	6 & 8	5	15	13
SP47	1	N/A	5 & 3	N/A	N/A
48-PB	1	6 & 8	5	15	13 (*bs.plts.)
50-PB 51-PB 53-PB	1	2	4	N/A	N/A
52-PB (SET)	N/A	N/A	4	N/A	N/A
102-RKW thru 109	1	6 & 8	5	15 (*bs.plts.)	13 (*bs.plts.)
110-RKW thru 118	1	6 & 8	5	15	13
120 121	1 & 12	6 & 8	5	15	13
122-RKW 123 125-RKW 126-RKW	1	N/A	N/A	N/A	N/A
130-RKW 131-RKW	1	2	4	N/A	N/A
D133-RKW	N/A	2	N/A	N/A	N/A
132-RKW 134-RKW	1	N/A	N/A	N/A	N/A
137 137L	1	N/A	N/A	N/A	N/A
138 139	1	2	4	N/A	N/A
147 147L	1	N/A	N/A	N/A	N/A
148	1	6 & 8	5	15	13
149	1	6 & 8	5	N/A	13
BF150 thru BF152	1 & 12	17	16	15	18 (*bs.plts.)
BF156 thru BF159	1 & 12	17	16	15	18
TBF156 thru TBF159	1 & 12	17	16	15	18
YBF150 thru YBF152	1 & 12	17	16	15	18
YBF156 thru YBF159	1 & 12	17	16	15	18
BF160 thru BF162	1 & 12	17	16	15	18
BF166 thru BF169	1 & 12	17	16	15	18
176-RKW 177	1	N/A	acorn nut	N/A	N/A
185	1	6 & 8	5	N/A	N/A
193	N/A	2	N/A	N/A	N/A
208	1	6 & 8	5	15	13 (*bs.plts.)
215 216	1	6 & 8	5	15	13 (*bs.plts.)
215L	1	6 & 8	5	15	13 (*bs.plts.)

*bs. plts. (base plates) are glass mounting plates, similar to a washer and the same cross section of the post. (They are not the Y-Plates used on wood or metal doors.)

Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncld. Or Sfc.	Back to Back	Thru Bolt	Back to Back
Tubular Pulls (RM200 & 300 series)					
**RM201 thru RM204	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM221 thru RM224	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM251 thru RM252 (SETS)	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM257 thru RM259 (SOLID)	1XHD	6HD & 8HD	5HD	N/A	13HD
**RM271 thru RM272 (SETS)	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM301 thru RM304	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM321 thru RM324	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM350	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM351 RM352 (SETS)	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM370	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM371 RM372 (SETS)	1XHD & 12XHD	6HD & 8HD	11	15XHD	14

RightAngle Pulls (RM400 series)					
**RM405 RM410 RM411	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM415 RM420 RM421	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
**RM412 & RM413	1XHD & 12XHD	6HD & 8HD	11 & 5HD	15XHD	14 & 13HD
**RM421 RM423	1XHD & 12XHD	6HD & 8HD	11 & 5HD	15XHD	14 & 13HD
**Note: For all bent 1-1/4" & 1-1/2" solid Aluminum pulls and bars, use the following mountings:					
Straight Solid	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
Offset Solid	1HD & 12HD	17HD	16HD	15HD	18HD
RM405 thru RM411-Alum	1HD	6HD & 8HD	5HD	15HD	13HD
RM412 & RM413-Alum	1HD	6HD & 8HD	5HD	15HD	13HD

Small Pulls (RM700 series)					
RM710 RM715	1 (#8-32)	N/A	N/A	N/A	N/A
RM720 thru RM735	1 (#8-32)	6S	5S	N/A	N/A

Small PostMount Pulls (RM1200 series)					
RM1200 RM1240	1 (#8-32)	N/A	N/A	N/A	N/A
RM1210 thru RM1270	1 (#8-32)	6S	5S	N/A	N/A

Small PostMount GripZone Pulls (RM1300 series)					
RM1300 RM1340	1 (#8-32)	N/A	N/A	N/A	N/A
RM1310 thru RM1370	1 (#8-32)	6S	5S	N/A	N/A

NoirMet Small PostMount Pulls (RM1400 series)					
RM1410 thru RM1470	1(#8-32)	6S	5S	N/A	N/A

ArborMet Small PostMount Pulls (RM1500 series)					
RM1510 thru RM1570	1(#8-32)	6S	5S	N/A	N/A

IberMet Small PostMount Pulls (RM1600 series)					
RM1610 thru RM1670	1(#8-32)	6S	5S	N/A	N/A

MegaCurve Pulls (RM2000 series)					
RM2000 thru RM2034	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncld. Or Sfc.	Back to Back	Thru Bolt	Back to Back
MezzoTek Pulls (RM2100 series)					
RM2110 RM2112	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2122	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2130 RM2132	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2140 RM2142	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2150	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

BandWidth Pulls (RM2200 series)					
RM2200 RM2202 RM2204 RM2206	1 & 12	6 & 8	5	15	13
RM2210 RM2212	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2216	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2230 RM2234	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2240 RM2244	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

OvalTek Pulls (RM2300 series)					
RM2300 RM2302	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2310 RM2312	1HD	6HD & 8HD	5HD	15HD (rd.pst)	13HD
RM2320 RM2330	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

OvalTek Flat Oval Pulls (RM2400 series)					
RM2400 RM2402	1 & 12	6 & 8	5	15	13
RM2410	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2420	1HD	6HD & 8HD	5HD	15HD (rd.pst)	13HD

SoftMet Pulls (RM2500 series)					
RM2510 RM2512 RM2514	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2516	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2540 RM2544	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

SoftTek Pulls (RM2600 series)					
RM2610 RM2612	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM2640	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

IberMet Pulls (RM2700 series)					
RM2710 thru RM2744 (N&R)	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

NeoMetrix Pulls (RM3000 series)					
RM3010 RM3012	1 & 12	6 & 8	5	15	13
RM3020 RM3022	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
RM3030 RM3032	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
RM3040	1 & 12	17	16	15	18
RM3050 RM3060	1XHD & 12XHD	6HD & 8HD	11	15XHD	14

Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncld. Or Sfc.	Back to Back	Thru Bolt	Back to Back
PostMount Pulls (RM3100 series)					
RM3100 RM3101 RM3102	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3104 RM3106	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3110 RM3112 RM3114 RM3116	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3120 RM3122 RM3124 RM3126	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3130 RM3131 RM3134	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3140 RM3144	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3150 RM3154	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

NeoTek Pulls (RM3200 series)					
RM3200 RM3202 RM3204 RM3206	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD (*bs.plts.)
RM3210 RM3212 RM3214 RM3216	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3220 RM3222 RM3224 RM3226	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3230 RM3234	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3240 RM3244	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3250 RM3254	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

MegaTek Pulls (RM3300 series)					
RM3300 thru RM3332	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3340	1 & 12	6 & 8	5	15	13
RM3341 RM3342	1HD & 12HD	6HD & 8HD	11	15HD	14

NeoMax Pulls (RM3400 series)					
RM3400 thru RM3432	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3440	1 & 12	6 & 8	5	15	13
RM3441 RM3442	1HD & 12HD	6HD & 8HD	11	15HD	14

LineaMet Pulls (RM3500 series)					
RM3510 RM3512 RM3514 RM3516	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3520 RM3522 RM3524 RM3526	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3540 RM3544	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3550 RM3554	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

LineaTek Pulls (RM3600 series)					
RM3610 RM3612 RM3614 RM3616	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3620 RM3622 RM3624 RM3626	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3640 RM3644	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3650 RM3654	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

LineaMax Pulls (RM3700 series)					
RM3701 thru RM3732	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3741 RM3742	1XHD & 12XHD	6HD & 8HD	11	15XHD	14
RM3751 thru RM3782	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

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Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncl'd. Or Sfc.	Back to Back	Thru Bolt	Back to Back
NoirMet Pulls (RM3800 series)					
RM3800 RM3802 RM3804 RM3806	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3810 RM3812 RM3814 RM3816	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3820 RM3822 RM3824 RM3826	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3830 RM3834	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3840 RM3844	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3850 RM3854	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

NoirTek Pulls (RM3900 series)					
RM3900 RM3902 RM3904 RM3906	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3910 RM3912 RM3914 RM3916	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3920 RM3922 RM3924 RM3926	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3930 RM3934	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3940 RM3944	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM3950 & RM3954	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

ArborMet Pulls (RM4000 series)					
RM4000 RM4002 RM4004 RM4006	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4010 RM4012 RM4014 RM4016	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4020 RM4022 RM4024 RM4026	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4030 RM4034	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4040 RM4044	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4050 RMRM4054	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4060 RM4062 RM4064	1	6 & 8	5	N/A	13 (*bs.plts.)
RM4066 RM4068	1	6 & 8	5	N/A	13 (*bs.plts.)

ArborTek Pulls (RM4100 series)					
RM4100 RM4104	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4110 RM4112 RM4114 RM4116	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4120 RM4122 RM4124 RM4126	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4130 RM4134 RM4140 RM4144	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4150 RM4154	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4160	1 & 12	6 & 8	5	15	13
RM4170 RM4180 RM4190	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

SkewTek Pulls (RM4200 series)					
RM4200 RM4210	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4270 RM4272 RM4274	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

CenTek Pulls (RM4300 series)					
RM4300 THRU RM4305	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

CenTrex 1" Radius Pulls (RM4400 series)					
RM4400 RM4402	1 & 12	6 & 8	5	15	13
RM4410 RM4412	1 & 12	6 & 8	5	N/A	N/A
RM4420 RM4422	1HD & 12HD	17HD	16HD	15HD	18HD
RM4440 RM4450	1 & 12	6 & 8	5	15	13

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Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncld. Or Sfc.	Back to Back	Thru Bolt	Back to Back
Centrex Large Radius Pulls (RM4500 series)					
RM4500 RM4502 RM4506	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4510 RM4512 RM4516	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM4550 RM4552	1HD	6HD & 8HD	5HD	N/A	13HD

AccenTek Pulls (RM4700 series)					
RM4700	1	6	5	N/A	13
RM4720	1	6	5	N/A	13
RM4750 RM4755	1HD & 12HD	6HD	5HD	15HD	13HD (*bs.plts.)
†RM4800 RM4820	TB	N/A	BTB	N/A	N/A
†See image of mounting below "RM4800 Mounting Only" (page 8)					

SculpTrex Pulls (RM5000 series)					
RM5000 RM5002 RM5010	1 & 12	17	16	15	18
RM5012 RM5020	1 & 12	17	16	15	18
RM5030 RM5032 RM5040 RM5042	1 & 12	17 X 1 ST SC	16 X 1 ST SC	15	18 X 1 ST SC
RM5050	1 & 12	17	16	15	18

InfiniTriX Pulls (RM5100 series)					
RM5100 RM5110 RM5112	1HD & 12HD	6HD & 8HD	5HD	N/A	13HD

PlanTek Pulls (RM5200 series)					
RM5200 RM5202 RM5204	1	6 & 8	5	N/A	13 (*bs.plts.)
RM5210 RM5212	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM5220 RM5222	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM5230 RM5232	1	6 & 8	5	N/A	13 (*bs.plts.)
RM5240 RM5242	1HD	6HD & 8HD	5HD	N/A	13HD (*bs.plts.)
RM5250	1	6 & 8	5	N/A	13 (*bs.plts.)
RM5260	1HD	6HD & 8HD	5HD	N/A	13HD (*bs.plts.)
RM5270	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD (*bs.plts.)
RM5280	1(#8-32)	N/A	5S	N/A	N/A

Traditional Pulls (RM5500 series)					
RM5500 RM5510	1 & 12	N/A	N/A	N/A	N/A
RM5502 RM5512	1	N/A	N/A	N/A	N/A
RM5520 RM5522	1	6 & 8	5	N/A	N/A
RM5530 RM5532 RM5534	1	N/A	N/A	N/A	N/A

Classic Pulls (RM5600 series)					
RM5600 THRU RM5664	1	6 & 8	5	15	13
RM5670	1HD	6HD & 8HD	5HD	15HD	13HD

MariTek Series (RM5700 Series)					
RM5700 RM5702	1 & 12	6 & 8	5	15	13

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	Thru Bolt	Cncl'd. Or Sfc.	Back to Back	Thru Bolt	Back to Back
English Bridle Leather Pulls (RM5600 series)					
RM6000 RM6004	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6010 RM6014 RM6020 RM6024	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6030 RM6034 RM6040 RM6044	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6050 RM6054	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6060 RM6061 RM6062	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6070 RM6071 RM6072	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6080 RM6081 RM6082	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6090 RM6091 RM6092	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

Upholstery Leather Pulls (RM6100 series)					
RM6100 RM6104	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6110 RM6114 RM6120 RM6124	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6130 RM6134	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6140 RM6144	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6150 RM6154	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6160 RM6161 RM6162	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6170 RM6171 RM6172	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6180 RM6181 RM6182	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6190 RM6191 RM6192	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

Leather Oval Pulls (RM6200 series)					
RM6200	1	6 & 8	5	N/A	13
RM6220	1 & 12	6 & 8	5	15	13
RM6230	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6240	1HD	6HD & 8HD	5HD	15HD (rd.pst)	13HD

Flush Leather Wrap Pulls (RM6300 series)					
RM6300 RM6304	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6310 RM6314 RM6320 RM6324	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6330 RM6334 RM6340 RM6344	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM6350 RM6354	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD

Leather Rect Pulls (RM6400 series)					
RM6400 RM6410 RM6420	1	6 & 8	5	N/A	13 (*bs.plts.)
RM6430 RM6440	1	6 & 8	5	N/A	13 (*bs.plts.)

Small Leather Wrap Pulls (RM6500 series)					
RM6500	1 (#8-32)	N/A	N/A	N/A	N/A
RM6510 RM6530	1 (#8-32)	6S	5S	N/A	N/A
RM6540	1 (#8-32)	N/A	N/A	N/A	N/A
RM6550 RM6570	1 (#8-32)	6S	5S	N/A	N/A
RM6610 RM6630 RM6650 RM6670	1 (#8-32)	6S	5S	N/A	N/A
RM6700	1 (#8-32)	N/A	N/A	N/A	N/A
RM6710 RM6730	1 (#8-32)	6S	5S	N/A	N/A

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Product No.	Metal/Wood Doors			Glass Doors	
	Thru Bolt	Cncld. Or Sfc.	Back to Back	Thru Bolt	Back to Back
NeoCylinder Pulls (RM7200 series)					
RM7210 RM7212 RM7220	1HD & 12HD	6HD & 8HD	5HD	N/A	13HD (*bs.plts.)
RM7230 RM7232 RM7240	1HD & 12HD	6HD & 8HD	5HD	N/A	13HD (*bs.plts.)

NeoMitre Pulls (RM7300 series)					
RM7300 RM7302 RM7310 RM7312	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM7320 RM7322	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM7330 RM7340 RM7350	1HD & 12HD	6HD & 8HD	5HD	N/A	13HD
RM7400 RM7402 RM7410	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM7412 RM7420 RM7422	1HD & 12HD	6HD & 8HD	5HD	15HD	13HD
RM7430 RM7440 RM7450	1HD	6HD & 8HD	5HD	N/A	13HD

GeoMetek Pulls (RM7700-RM7900 Series)					
RM7700	1 & 12	6 & 8	5	N/A	13 (*bs.plts.)
RM7800 RM7805 RM7810 RM7815	1 & 12	6 & 8	5	N/A	13 (*bs.plts.)
RM7900 RM7902 RM7910 RM7912	1 & 12	6 & 8	5	N/A	13 (*bs.plts.)
RM7907 RM7917 RM7927 RM7937	1HD & 12HD	6HD & 8HD	5HD	N/A	13HD (*bs.plts.)
RM7920 RM7925 RM7930 RM7935	1 & 12	6 & 8	5	N/A	13 (*bs.plts.)
RM7940	1HD & 12HD	6HD & 8HD	5HD	N/A	13HD (*bs.plts.)
RM7960	1 & 12	6 & 8	5	N/A	13 (*bs.plts.)

*bs. plts. (base plates) are glass mounting plates, similar to a washer and the same cross section of the post. (They are not the Y-Plates used on wood or metal doors.)

Free End Thru Bolt

TYPE 1 - Thru Bolt Wood or Metal Door			
Type	Bolt Size	Drill Size	
1	1/4"-20	9/32	
1HD	5/16"-18	11/32	
1XHD	3/8"-16	13/32	

TYPE 12 - Decorative Thru Bolt Wood or Metal Door			
Type	Bolt Size	Drill Size	
12	1/4"-20	9/32	
12HD	5/16"-18	11/32	
12XHD	3/8"-16	13/32	

TYPE 15 - Decorative Thru Bolt Glass Door			
Type	Bolt Size	Drill Size	
15	1/4"-20	5/8	
15HD	5/16"-18	5/8	
15XHD	3/8"-16	5/8	

Wire or Small Post Mount Pull Mounting

TYPE 55 - Back-to-Back Wood or Metal Door			
Type	Bolt Size	Drill Size	
55	#8-32	13/64	

NOTE: This mounting should only be used on pulls with mounting points that are 1/2" in diameter.

RM4800 Mounting Only

RM4800 Series - Thru Bolt Wood or Metal Door			
Bolt Size		Drill Size	
3/8"-16		5/8	

RM4800 Series - Back-to-Back Wood or Metal Door			
Bolt Size		Drill Size	
3/8"-16		5/8	

Free End Concealed

TYPE 6 - Surface Concealed Metal Door

Minimum diameter of pull is $\frac{5}{8}$ "

Cone Head Machine Screw
Pull
Set Screw
Reinforcement by others

For doors with rivnuts specify Type 6R

Type	Bolt Size	Drill Size
6	$\frac{1}{4}$ "-20	$\frac{1}{8}$ "-20 Tap
6HD	$\frac{5}{16}$ "-18	$\frac{5}{16}$ "-18 Tap

TYPE 6R - Surface Concealed Metal Door

Minimum diameter of pull is 1"

Cone Head Machine Screw
Pull
Set Screw
Rivnut

Type	Bolt Size	Drill Size
6R	$\frac{1}{4}$ "-20	N/A
6RHD	$\frac{5}{16}$ "-18	N/A

TYPE 8 - Surface Concealed Wood Door

Cone Head Machine Screw
Pull
Knife Thread Insert
 $\frac{1}{4}$ "-20 Set Screw

Type	Bolt Size	Drill Size
8	$\frac{1}{4}$ "-20	$\frac{23}{64}$ "- $\frac{9}{16}$ dp.
8HD	$\frac{5}{16}$ "-18	$\frac{7}{16}$ "- $\frac{9}{16}$ dp.

TYPE 17 - Surface Concealed Metal Door

Minimum diameter of pull is 1"

Cone Head Machine Screw
Pull
Set Screws
Reinforcement by others

Type	Bolt Size	Drill Size
17	$\frac{1}{4}$ "-20	$\frac{1}{4}$ "-20 Tap
17HD	$\frac{5}{16}$ "-18	$\frac{5}{16}$ "-18 Tap

TYPE 17R - Surface Concealed Metal Door

Minimum diameter of pull is 1"

Cone Head Machine Screw
Pull
Set Screws
Rivnut

Type	Bolt Size	Drill Size
17R	$\frac{1}{4}$ "-20	N/A
17RHD	$\frac{5}{16}$ "-18	N/A

Common End Back-to-Back

TYPE 5 - Back-to-Back Wood or Metal Door

Minimum diameter of pull is $\frac{5}{8}$ "

Cone Head Machine Screw
Pull
Set Screw
Inside Outside

Type	Bolt Size	Drill Size
5	$\frac{1}{4}$ "-20	$\frac{9}{32}$
5HD	$\frac{5}{16}$ "-18	$\frac{11}{32}$

TYPE 9 - Back-to-Back w/Lug Plate Any Door Type

Minimum diameter of pull is $\frac{5}{8}$ "

Cone Head Machine Screw
Pull
Set Screw
Push Plate ($\frac{1}{8}$ " Min. Thick Plate)
Stud
Threaded Sleeve

Type	Bolt Size	Drill Size
9	$\frac{1}{4}$ "-20	N/A

TYPE 11XHD - Back-to-Back w/Spanner Collar - Wood or Metal Door

Minimum diameter of pull is 1"

Spanner Collar
Pull
RH Thread
Inside Outside

Type	Bolt Size	Drill Size
11XHD	$\frac{3}{8}$ "-16	$\frac{13}{32}$

TYPE 13 - Back-to-Back Glass Door

Cone Head Machine Screw
Pull
Set Screw
Plastic Washers
Washer
Neoprene Bushing $\frac{5}{8}$ " Dia. Hole
Inside Outside

Type	Bolt Size	Drill Size
13	$\frac{1}{4}$ "-20	$\frac{5}{8}$
13HD	$\frac{5}{16}$ "-18	$\frac{5}{8}$

TYPE 14XHD - Back-to-Back Glass Door

Minimum diameter of pull is 1"

Spanner Collar
RH/LH Thread
Pull
Felt Washers
Neoprene Bushing $\frac{5}{8}$ " Dia. Hole
Inside Outside

Type	Bolt Size	Drill Size
14XHD	$\frac{3}{8}$ "-16	$\frac{5}{8}$

TYPE 16 - Back-to-Back Wood or Metal Door

1" diameter offset pulls only

Cone Head Machine Screw
Pull
Set Screws
Inside Outside

Type	Bolt Size	Drill Size
16	$\frac{1}{4}$ "-20	$\frac{9}{32}$
16HD	$\frac{5}{16}$ "-18	$\frac{11}{32}$

TYPE 18 - Back-to-Back Glass Door

Washer
Cone Head Machine Screw
Pull
Set Screws
Plastic Washers
Neoprene Bushing $\frac{5}{8}$ " Dia. Hole
Inside Outside

Type	Bolt Size	Drill Size
18	$\frac{1}{4}$ "-20	$\frac{5}{8}$
18HD	$\frac{5}{16}$ "-18	$\frac{5}{8}$

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Door Security Solutions Canada
160 Four Valley Drive
Vaughan, ON L4K 4T9
P: 800-461-3007
www.assaabloy.ca

Set Mounting Charges

Mounting Spec #	Door Type	Pull Type	Mounting Type			Add On
			Pull Free End	Push Free End	Common End	
T1	Metal & Wood	Straight or Offset	12	12	5	24
T1HD	Metal & Wood	Straight or Offset	12HD	12HD	5HD	31
T2	Glass	Straight or Offset	15	15	13	29
T2HD	Glass	Straight or Offset	15HD	15HD	13HD	36
T3*	Metal & Wood	Straight or Offset	1	1	5	Included
T3HD	Metal & Wood	Straight or Offset	1HD	1HD	5HD	17
T4	Metal	Straight	6	6	5	12
T4HD	Metal	Straight	6HD	6HD	5HD	27
T4	Metal	Offset	17	17	16	21
T4HD	Metal	Offset	17HD	17HD	16HD	29
T5	Wood	Straight or Offset	8	8	5	21

*T3 is the standard mounting method for Metal and Wood Doors.

NOTE: Heavy Duty (HD) mounting features hex drive for positive tightening and large overall size for superior strength.

Recommended for high frequency and rough service openings.

Mounting Types

Pull Style	PULL ON ONE SIDE OF DOOR								PULL ON BOTH SIDES OF DOOR (BTB)				
Mounting Style	Thru Bolt	Deco Thru Bolt	Concealed						Conehead/Set Screw				Lug Plate
Door Type	Wood/Metal	Glass	Metal	Metal	Wood	Wood	Wood		Wood/Metal	Glass			Any
Coneheads	NA	NA	NA	Single	Single	Single	Double	Double	Single	Double	Single	Double	Single
Mounting Type	Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 17	Type 17R	Type 5	Type 16	Type 13	Type 18	Type 9
Standard (STD) Bolt Size	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20
Price	INCL	55.00	65.00	16.30	25.80	21.50	24.30	34.40	16.30	24.30	30.10	41.70	54.00
Heavy Duty (HD) Bolt Size	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	
Price	16.30	65.00	77.00	24.30	36.60	30.10	30.10	43.00	24.30	30.10	38.10	47.70	
Extra Heavy Duty (XHD) Bolt Size	3/8"-16	3/8"-16	3/8"-16										
Price	23.90	71.00	83.00										

Straight Pulls

Pull Type	Dia.	MAXIMUM BOLT SIZE ALLOWED								MAXIMUM BOLT SIZE ALLOWED				
		Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 17	Type 17R	Type 5	Type 16	Type 13	Type 18	Type 9
Straight	1/2"	STD	STD	STD			STD					STD		
Straight	5/8"	HD	HD	HD	STD		STD			STD		STD		STD
Straight	1"	HD	HD	HD	HD	HD	HD			HD		HD		STD

Offset Pulls

Pull Type	Dia.	MAXIMUM BOLT SIZE ALLOWED								MAXIMUM BOLT SIZE ALLOWED				
		Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 17	Type 17R	Type 5	Type 16	Type 13	Type 18	Type 9
Offset	1/2"	STD	STD	STD									STD	
Offset	5/8"	HD	HD	HD									STD	
Offset	1"	XHD	XHD	XHD				HD	STD		HD		HD	
Offset	1 1/4"	XHD	XHD	XHD				HD	STD		HD		HD	

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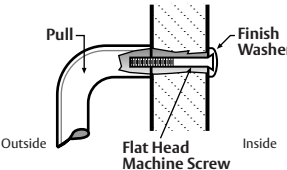
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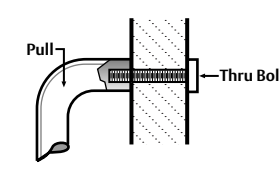
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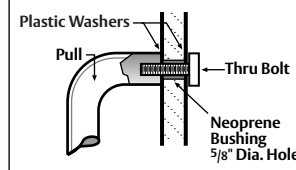
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NOTE: Heavy Duty (HD) mounting features hex drive for positive tightening and large overall size for superior strength. Recommended for high frequency and rough service openings.

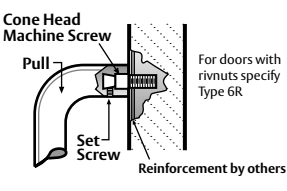
Free End Thru Bolt

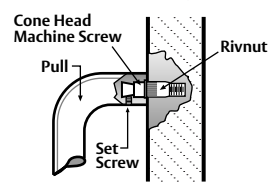
TYPE 1 - Thru Bolt Wood or Metal Door			
			
Type	Bolt Size	Drill Size	Price
1	1/4"-20	9/32	Incl.
1HD	5/16"-18	11/32	16.30
1XHD	3/8"-16	13/32	23.90

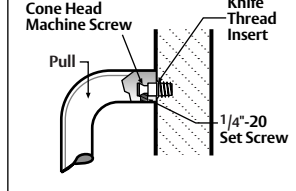
TYPE 12 - Decorative Thru Bolt Wood or Metal Door			
			
Type	Bolt Size	Drill Size	Price
12	1/4"-20	9/32	55.00
12HD	5/16"-18	11/32	65.00
12XHD	3/8"-16	13/32	71.00

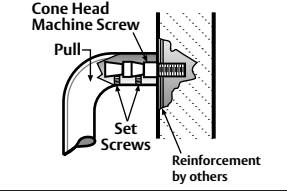
TYPE 15 - Decorative Thru Bolt Glass Door			
			
Type	Bolt Size	Drill Size	Price
15	1/4"-20	5/8	65.00
15HD	5/16"-18	5/8	77.00
15XHD	3/8"-16	5/8	83.00

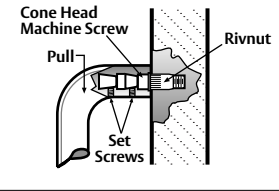
Free End Concealed

TYPE 6 - Surface Concealed Metal Door			
Minimum diameter of pull is 5/8"  For doors with rivnuts specify Type 6R Reinforcement by others			
Type	Bolt Size	Drill Size	Price
6	1/4"-20	1/4"-20 Tap	16.30
*6HD	5/16"-18	5/16"-18 Tap	24.30

TYPE 6R - Surface Concealed Metal Door			
Minimum diameter of pull is 1" 			
Type	Bolt Size	Drill Size	Price
6	1/4"-20	N/A	25.80
*6HD	5/16"-18	N/A	36.60

TYPE 8 - Surface Concealed Wood Door			
			
Type	Bolt Size	Drill Size	Price
8	1/4"-20	23/64"-9/16 dp.	21.50
*8HD	5/16"-18	7/16"-9/16 dp.	30.10

TYPE 17 - Surface Concealed Metal Door			
Minimum diameter of pull is 1"  Reinforcement by others			
Type	Bolt Size	Drill Size	Price
17	1/4"-20	1/4"-20 Tap	24.30
17HD	5/16"-18	5/16"-18 Tap	30.10

TYPE 17R - Surface Concealed Metal Door			
Minimum diameter of pull is 1" 			
Type	Bolt Size	Drill Size	Price
17R	1/4"-20	N/A	34.40
17RHD	5/16"-18	N/A	43.00

*HD mountings feature 2 set screws 180° apart.

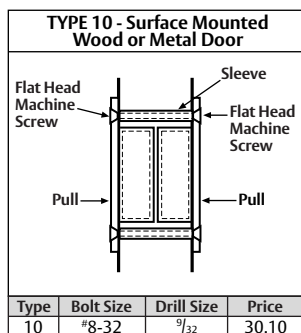
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NOTE: Y base plates are recommended on wood or glass doors to make a stable and durable mounting (see page 40 for details).
NOTE: Heavy Duty (HD) mounting features hex drive for positive tightening and large overall size for superior strength.
Recommended for high frequency and rough service openings.

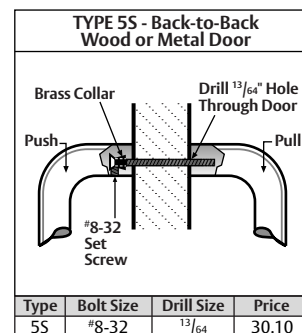
Flush Pull Mounting

Type 10 Mounting applies to the 94 Series Flush Pulls

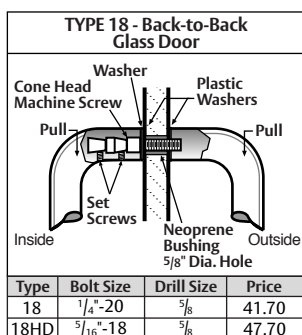
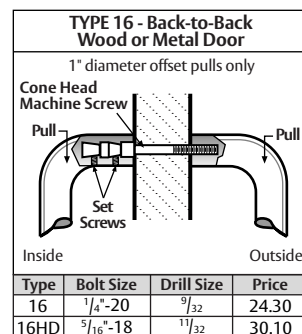
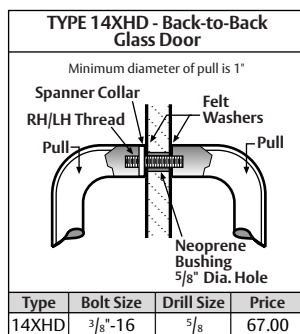
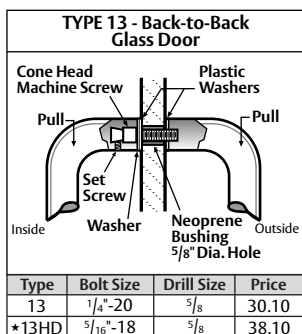
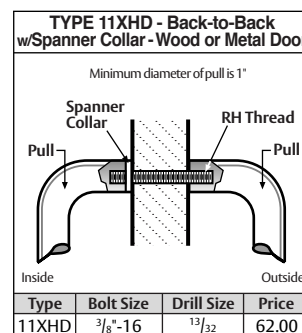
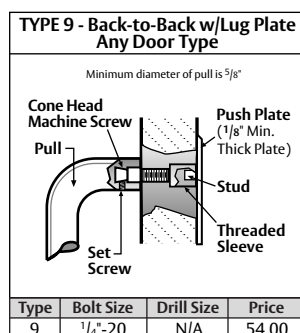
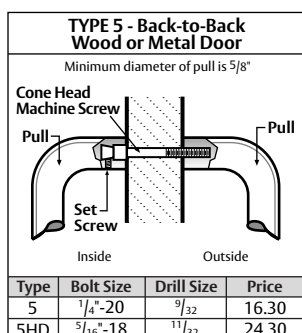


Wire or Small Post Mount Pull Mounting

NOTE: This mounting should only be used on pulls with mounting points that are 1/2" in diameter.



Common End Back-to-Back



*HD mountings feature 2 set screws 180° apart.

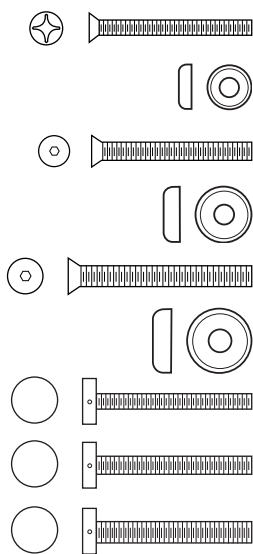
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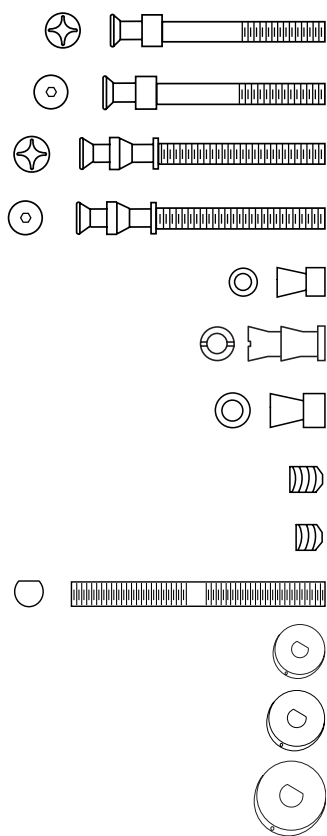
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Thru Bolt Mounting - For 1 3/4" Wood and Metal Doors



Part	Description	Mounting Type	Price
SP1004	1/4"-20 x 2 1/4" Flat Head Machine Screw Thru Bolt	1	2.40
SP1005	1/4"-20 Finishing Washer	1	1.70
SP1053	5/16"-18 x 2 1/2" Socket Flat Head Machine Screw Thru Bolt	1HD	6.50
SP1054	5/16"-18 Finishing Washer	1HD	2.40
SP1001	3/8"-16 x 2 1/2" Socket Flat Head Machine Screw Thru Bolt	1XHD	10.10
SP1002	3/8"-16 Finishing Washer	1XHD	3.00
SP1003	1" Diameter Decorative Thru Bolt 1/4"-20 x 2 1/4"	12	27.30
SP1055	1" Diameter Decorative Thru Bolt 5/16"-18 x 2 1/4"	12HD	32.50
SP1041	1 1/4" Diameter Decorative Thru Bolt 3/8"-16 x 2 1/4"	12XHD	32.50

Back-to-Back Mounting - For 1 3/4" Wood and Metal Doors



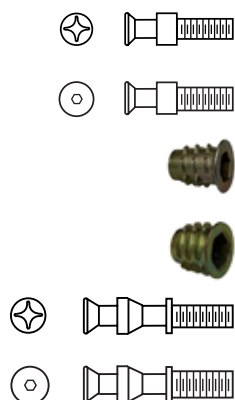
Part	Description	Mounting Type	Price
SP1025	1/4"-20 x 2 1/4" Cone Head Machine Screw	5	7.10
SP1056	5/16"-18 x 2 1/4" Cone Head Machine Screw	5HD	11.20
SP1052	1/4"-20 x 2 1/4" Double Cone Head Machine Screw (for use with offset pulls)	16	8.40
SP1057	5/16"-18 x 2 1/4" Double Cone Head Machine Screw (for use with offset pulls)	16HD	13.80
SP1027	1/4"-20 Cone Head Union (Used to Convert Cone Head to Thru Bolt Hole)	N/A	7.10
SP1079	1/4"-20 Double Cone Head Union (Used to Convert Double Cone Head to Thru Bolt Hole)	N/A	12.50
SP1068	5/16"-18 Cone Head Union (Used to Convert Cone Head to Thru Bolt Hole)	N/A	11.20
SP1026	1/4"-20 x 5/16" Set Screws (Standard)	N/A	1.70
SP1065	1/4"-20 x 3/16" Set Screw (Short)	N/A	2.20
SP1032	3/8"-16 x 2 7/8" LH/RH Bolt	11	14.80
SP1071	Spanner Collar 1" Diameter for LH/RH Bolt	11	22.40
SP1033	Spanner Collar 1 1/4" Diameter for LH/RH Bolt	11	22.40
SP1072	Spanner Collar 1 1/2" Diameter for LH/RH Bolt	11	24.90

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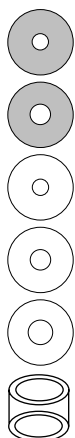
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Concealed Mounting - For 1 3/4" Wood and Metal Doors



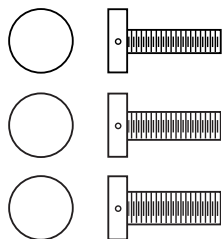
Part	Description	Mounting Type	Price
SP1039	1/4"-20 x 1/2" Cone Head Machine Screw	6 / 6R	7.10
SP1058	5/16"-18 x 1/2" Cone Head Machine Screw	6HD	11.20
SP1080	1/4"-20 Cone Head / Knife Thread Insert	8	11.80
SP1082	5/16"-18 Cone Head / Knife Thread Insert	8HD	11.80
SP1051	1/4"-20 x 1/2" Double Cone Head Machine Screw	17 / 17R	11.20
SP1059	5/16"-18 x 1/2" Double Cone Head Machine Screw	17HD	13.80

Bushings & Washers - For 1/2" Glass Doors



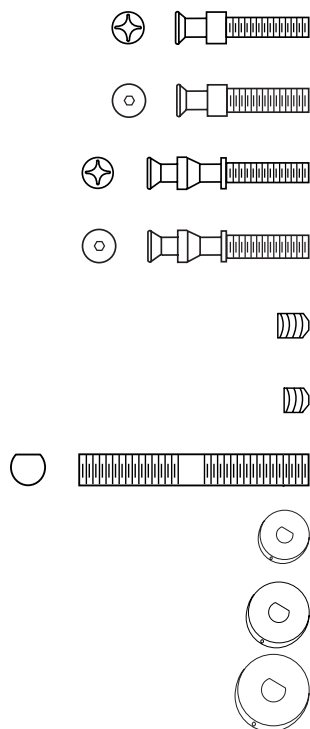
Part	Description	Mounting Type	Price
SP1022	Stainless Steel Washer for 1/4"-20 Cone Head Machine Screw .032" Thick	13	3.00
SP1060	Stainless Steel Washer for 5/16"-18 Cone Head Machine Screw .060" Thick	13HD	3.00
SP1023	Plastic Washer for 1/4"-20 Bolt; Specify Size	13	2.60
SP1061	Plastic Washer for 5/16"-18 Bolt; Specify Size	13HD	2.80
SP1062	Plastic Washer for 3/8"-16 Bolt; Specify Size	14	2.80
SP1024	Glass Door Bushing for 5/8" Hole in Glass; Specify Size	13 / 13HD / 14	3.00

Thru Bolt Mounting - For 1/2" Glass Doors



Part	Description	Mounting Type	Price
SP1020	1" Diameter Decorative Thru Bolt; 1/4"-20 x 1 1/8"	15	27.30
SP1063	1" Diameter Decorative Thru Bolt; 5/16"-18 x 1 1/8"	15HD	32.50
SP1040	1 1/4" Diameter Decorative Thru Bolt; 3/8"-16 x 1 1/8"	15XHD	32.50

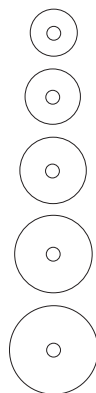
Back-to-Back Mounting - For 1/2" Glass Doors



Part	Description	Mounting Type	Price
SP1021	1/4"-20 x 1 1/8" Cone Head Machine Screw	13	7.10
SP1064	5/16"-18 x 1 1/8" Cone Head Machine Screw	13HD	11.20
SP1067	1/4"-20 x 1 1/8" Double Cone Head Machine Screw	18	11.20
SP1066	5/16"-18 x 1 1/8" Double Cone Head Machine Screw	18HD	13.80
SP1026	1/4"-20 x 5/16" Set Screw (Standard)	N/A	1.70
SP1065	1/4"-20 x 3/16" Set Screw (Short)	N/A	2.20
SP1031	3/8"-16 x 1 3/4" LH/RH Bolt	14	14.80
SP1071	Spanner Collar 1" Diameter for LH/RH Bolt	14	22.40
SP1033	Spanner Collar 1 1/4" Diameter for LH/RH Bolt	14	22.40
SP1072	Spanner Collar 1 1/2" Diameter for LH/RH Bolt	14	24.90

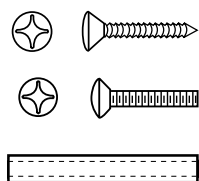
Y Base Plates

Specify bolt hole size and finish. Standard pulls require two plates.



Part	Description	For Use With	Price
SP1073	1/8" Thick x 1 1/16" Diameter	3/4" Diameter Pulls	27.30
SP1074	1/8" Thick x 1 1/4" Diameter	1" Diameter Pulls and Posts	27.30
SP1075	1/8" Thick x 1 1/2" Diameter	1" Diameter Pulls and Posts	27.30
SP1076	1/8" Thick x 1 3/4" Diameter	1" Diameter Pulls and Posts	27.30
SP1077	1/8" Thick x 2" Diameter	1" Diameter Pulls and Posts	27.30

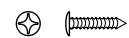
Flush Pull Fasteners



Part	Description	Door Type	Price
SP1006	#8 x 3/4" Oval Head Sheet Metal Screw	Wood or Metal	1.30
SP1007	#8-32 x 3/4" Oval Head Machine Screw	Metal	1.30
SP1034	#8-32 x 1 5/8" Brass Sleeve Machine Screw	Wood or Metal	7.50

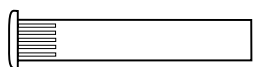
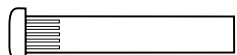
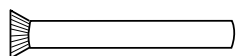
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Plate Fasteners



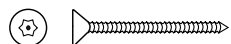
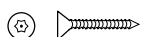
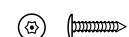
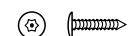
Part	Description	For Use With	Price
SP1008	#6 x 5/8" Oval Head Sheet Metal Screw	Push and Pull Plates; Kick Plates	34.60/c
SP1009	#6 x 3/4" Truss Head Sheet Metal Screw	Plastic / Laminate Kick Plates	34.60/c
SP1050	#6 x 5/8" Pan Head (TEK) Self-Drilling Screw - Stainless Steel	Stainless Steel Kick Plates	87.00/c
SP1069	#6 x 5/8" Pan Head (TEK) Self-Drilling Screw - Brass Plated	Brass Kick Plates	160.00/c

Sex Nuts



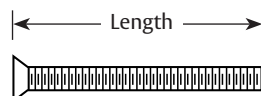
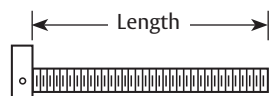
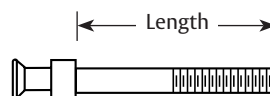
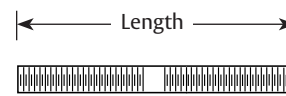
Part	Description	For Use With	Price
SP1018	#8-32 Flat Head Sex Nut	94 Series Flush Pulls	10.10
SP1019	#10-24 x 1 9/16" Sex Nut	580 Surface Bolts	5.80
SP1070	1/4"-20 x 1 9/16" Sex Nut	585 Surface Bolts	13.80

Tamperproof Torx® Head Security Fasteners



Part	Description	For Use With	Price
SP1016	#6 x 1/2" Button Head Sheet Metal Screw	Plastic Plates	1.70
SP1016B	#6 x 1/2" Button Head Sheet Metal Screw Brass Plated	Kick Plates	4.90
SP1042	#6 x 5/8" Oval Head Sheet Metal Screw	Kick Plates and Push/Pull Plates (Stainless Steel)	1.70
SP1042B	#6 x 5/8" Oval Head Sheet Metal Screw Brass Plated	Kick Plates and Push/Pull Plates	6.20
SP1017	#8 x 3/4" Flat Head Sheet Metal Screw	94 Flush Pulls, 131 Door Pulls, and 555 Flush Bolts	4.10
SP1035	#8-32 x 3/4" Flat Head Machine Screw	94 Flush Pulls, 131 Door Pulls, and 555 Flush Bolts	4.10
SP1037	#12 x 1 1/2" Flat Head Wood Screw	440/442 Door Stops	4.90
SP1038	1/4"-20 x 2 1/2" Flat Head Machine Screw	Door Pulls Type 1 Mount	7.50

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Standard Thru Bolt for
Countersunk HolesDecorative Thru Bolt for
Wood or Metal DoorsCone Head Bolt for Back-to-Back
Wood or Metal Doors

LH/RH Bolt without Heads

Mounting Kits for Door Pulls

Part	Mounting Type	Description	Price
KIT1	1	2 ea. 1/4"-20 x 2 1/4" Thru Bolts and 2 ea. Finish Washers; Specify Finish	8.20
KIT1HD	1HD	2 ea. 5/16"-18 x 2 1/2" Thru Bolts and 2 ea. Finish Washers; Specify Finish	16.30
KIT1XHD	1XHD	2 ea. 3/8"-16 x 2 1/2" Thru Bolts and 2 ea. Finish Washers; Specify Finish	23.90
KIT5	5	2 ea. 1/4"-20 x 2 1/4" Cone Head Bolts and 2 ea. Set Screws	16.30
KIT5HD	5HD	2 ea. 5/16"-18 x 2 1/4" Cone Head Bolts and 4 ea. Set Screws	24.30
KIT6	6	2 ea. 1/4"-20 x 1 1/2" Cone Head Bolts and 2 ea. Set Screws	16.30
KIT6HD	6HD	2 ea. 5/16"-18 x 1 1/2" Cone Head Bolts and 4 ea. Set Screws	24.30
KIT11	11	2 ea. 3/8"-16 x 3 1/2" LH/RH Bolt and 2 ea. Spanner Collars for 1 3/4" Doors; Specify Pull Diameter and Finish	62.00
KIT12-1	12	2 ea. 1/4"-20 x 2 1/4" Decorative Thru Bolts; 1" Dia.; Specify Finish	55.00
KIT12-1HD	12HD	2 ea. 5/16"-18 x 2 1/4" Decorative Thru Bolts; 1" Dia.; Specify Finish	65.00
KIT12-1.25XHD	12XHD	2 ea. 3/8"-16 x 2 1/4" Decorative Thru Bolts; 1 1/4" Dia.; Specify Finish	71.00
KIT12-1.5XHD	12XHD	2 ea. 3/8"-16 x 2 1/4" Decorative Thru Bolts; 1 1/2" Dia.; Specify Finish	83.00
KIT13	13	2 ea. 1/4"-20 x 1 1/8" Cone Head Bolts; 2 ea. Metal Washers; 4 ea. Plastic Washers; 2 ea. Bushings for 1/2" Glass Doors; 2 ea. Set Screws; Specify if other than 1/2" Glass	30.10
KIT13HD	13HD	2 ea. 5/16"-18 x 1 1/8" Cone Head Bolts; 2 ea. Metal Washers; 4 ea. Plastic Washers; 2 ea. Bushings for 1/2" Glass Doors; 4 ea. Set Screws; Specify if other than 1/2" Glass	38.10
KIT14	14	2 ea. 3/8"-16 x 2 1/4" LH/RH Bolt; 2 ea. Spanner Collars; 2 ea. Bushings; 4 ea. Washers for 1/2" Glass Doors; Specify Pull Diameter and Finish	74.00
KIT15	15	2 ea. 1/4"-20 x 1 1/8" Decorative Thru Bolts; 1" Dia.; 2 ea. Bushings; 4 ea. Plastic Washers; Specify Finish and Glass Thickness/Hole Size	65.00
KIT15HD	15HD	2 ea. 5/16"-18 x 1 1/8" Decorative Thru Bolts; 1" Dia.; 2 ea. Bushings; 4 ea. Plastic Washers; Specify Finish and Glass Thickness/Hole Size	77.00
KIT15-1.25XHD	15XHD	2 ea. 3/8"-16 x 1 1/8" Decorative Thru Bolts; 1 1/4" Dia.; 2 ea. Bushings; 4 ea. Plastic Washers; Specify Finish and Glass Thickness/Hole Size	83.00
KIT15-1.5XHD	15XHD	2 ea. 3/8"-16 x 1 1/8" Decorative Thru Bolts; 1 1/2" Dia.; 2 ea. Bushings; 4 ea. Plastic Washers; Specify Finish and Glass Thickness/Hole Size	95.00
KIT16	16	2 ea. 1/4"-20 x 2 1/4" Double Cone Head Bolts and 4 ea. Set Screws	24.30
KIT16HD	16HD	2 ea. 5/16"-18 x 2 1/4" Double Cone Head Bolts and 4 ea. Set Screws	30.10

Part	Mounting Type	Description	Price
KIT17	17	2 ea. 1/4"-20 x 1 1/2" Double Cone Head Bolts and 4 ea. Set Screws	24.30
KIT17HD	17HD	2 ea. 5/16"-18 x 1 1/2" Double Cone Head Bolts and 4 ea. Set Screws	30.10
KIT18	18	2 ea. 1/4"-20 x 1 1/8" Double Cone Head Bolts; 2 ea. Metal Washers; 4 ea. Plastic Washers; 2 ea. Bushings for 1/2" Glass Doors; Specify if other than 1/2" Glass and 4 ea. Set Screws	41.70
KIT18HD	18HD	2 ea. 5/16"-18 x 1 1/8" Double Cone Head Bolts; 2 ea. Metal Washers; 4 ea. Plastic Washers; 2 ea. Bushings for 1/2" Glass Doors; Specify if other than 1/2" Glass and 4 ea. Set Screws	47.70
KIT-T1	T1	1 ea. 1/4"-20 x 2 1/4" Cone Head Bolt; 1 ea. 1/4"-20 Cone Head Union; 2 ea. Set Screws; 2 ea. 1/4"-20 x 2 1/4" — 1" Dia. Decorative Thru Bolts; Specify Finish	71.00
KIT-T2	T2	1 ea. 1/4"-20 x 1 1/8" Cone Head Bolt; 1 ea. 1/4"-20 Cone Head Union; 2 ea. Set Screws; 2 ea. 1/4"-20 x 1 1/8" — 1" Dia. Decorative Thru Bolts; 1 ea. Metal Washer; 6 ea. Plastic Washers; 3 ea. Bushings; Specify Finish	89.00
KIT-T3	T3	1 ea. 1/4"-20 x 2 1/4" Cone Head Bolt; 1 ea. 1/4"-20 Cone Head Union; 2 ea. Set Screws; 2 ea. 1/4"-20 x 2 1/4" Thru Bolts; 2 ea. Finish Washers; Specify Finish	24.30
KIT-T4	T4	1 ea. 1/4"-20 x 2 1/4" Cone Head Bolt; 2 ea. 1/4"-20 x 1 1/2" Cone Head Bolts; 3 ea. Set Screws	24.30
KIT-T5	T5	1 ea. 1/4"-20 x 2 1/4" Cone Head Bolt; 2 ea. 1/4"-20 x 1 1/2" Cone Head Wood Screws; 3 ea. Set Screws	24.30
KITRM1.25	11x1XHD	2 ea. 3/8"-16 x 2 1/2" Thru-Bolts; 2 ea. Finish Washers; 1 ea. 3/8"-16 x 3 1/2" LH/RH Bolt; 1 ea. 1 1/4" Spanner Collar; Specify Finish	55.00
KITRM360	11x12XHD	2 ea. 3/8"-16 x 2 1/4" Decorative Thru Bolts 1 1/4" Dia.; 1 ea. 3/8"-16 x 3 1/2" LH/RH Bolt; 1 ea. 1 1/4" Spanner Collar; Specify Finish	102.00
KITRM360G	14x15XHD	2 ea. 3/8"-16 x 2 1/4" Decorative Thru Bolts 1 1/4" Dia.; 1 ea. 3/8"-16 x 2 1/4" LH/RH Bolt; 1 ea. 1 1/4" Spanner Collar; 3 ea. Bushings; 6 ea. Plastic Washers; Specify Finish	120.00
KITRM1.5	11x1XHD	2 ea. 3/8"-16 x 2 1/2" Thru Bolts; 2 ea. Finish Washers; 1 ea. 3/8"-16 x 3 1/2" LH/RH Bolt; 1 ea. 1 1/2" Spanner Collar; Specify Finish	61.00
KITRM380	11x12XHD	2 ea. 3/8"-16 x 2 1/4" Decorative Thru Bolts 1 1/2" Dia.; 1 ea. 3/8"-16 x 3 1/2" LH/RH Bolt; 1 ea. 1 1/2" Spanner Collar; Specify Finish	120.00
KITRM380G	14x15XHD	2 ea. 3/8"-16 x 2 1/4" Decorative Thru Bolts 1 1/2" Dia.; 1 ea. 3/8"-16 x 3 1/2" LH/RH Bolt; 1 ea. 1 1/2" Spanner Collar; 3 ea. Bushings; 6 ea. Plastic Washers; Specify Finish	138.00

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USA: Prices Effective May 1, 2018 • Canada: Prices Effective May 7, 2018

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Mounting Types

PULL STYLE	PULL ON ONE SIDE OF DOOR						PULL ON BOTH SIDES OF DOOR (BTB)			
MOUNTING STYLE	Thru Bolt	Deco Thru Bolt		Concealed			Conehead/Set Screw		Spanner Collar	
DOOR TYPE	Wood/Metal		Glass	Metal	Metal	Wood	Wood/Metal	Glass	Wood/Metal	Glass
CONEHEADS	NA	NA	NA	Single	Single	Single	Single	Single	NA	NA
MOUNTING TYPE	Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 5	Type 13	Type 11	Type 14
Standard (STD) Bolt Size	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20	1/4"-20		
Heavy Duty (HD) Bolt Size	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18	5/16"-18		
Extra Heavy Duty (XHD) Bolt Size	3/8"-16	3/8"-16	3/8"-16						3/8"-16	3/8"-16

Straight Pulls

Pull Type	Dia.	MAXIMUM BOLT SIZE ALLOWED						MAXIMUM BOLT SIZE ALLOWED			
		Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 5	Type 13	Type 11	Type 14
Straight	1/2"	STD	STD	STD			STD		STD	STD	STD
Straight	5/8"	HD	HD	HD	HD		HD	HD	HD	HD	HD
Straight	1"	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD
Straight	1 1/4"	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD
Straight	1 1/2"	HD	HD	HD	HD	HD	HD	HD	HD	HD	HD

Offset Pulls

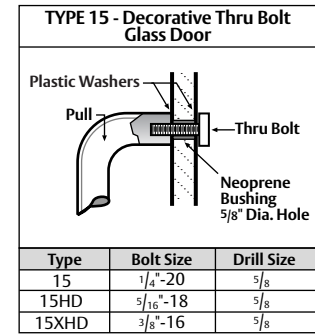
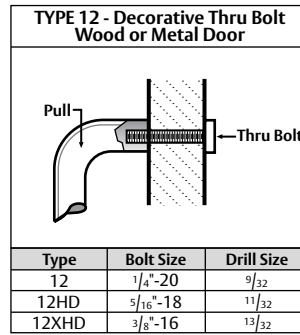
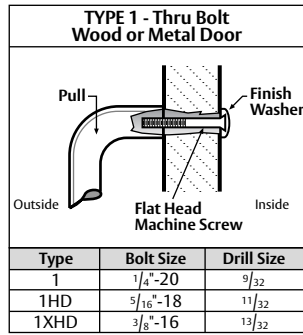
Pull Type	Dia.	MAXIMUM BOLT SIZE ALLOWED						MAXIMUM BOLT SIZE ALLOWED			
		Type 1	Type 12	Type 15	Type 6	Type 6R	Type 8	Type 5	Type 13	Type 11	Type 14
Offset	1/2"	STD	STD	STD						STD	STD
Offset	5/8"	HD	HD	HD						STD	STD
Offset	1"	XHD	XHD	XHD						HD	HD
Offset	1 1/4"	XHD	XHD	XHD						HD	HD
Offset	1 1/2"	XHD	XHD	XHD						HD	HD

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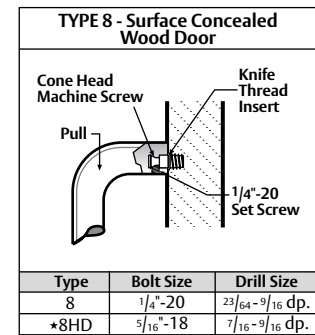
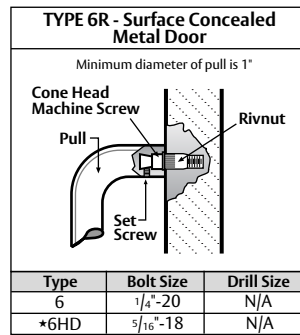
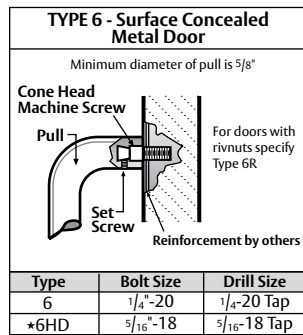
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Door Pull Mounting Details

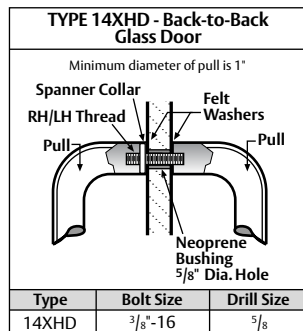
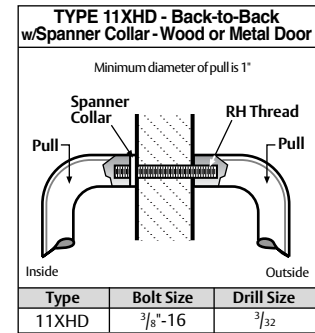
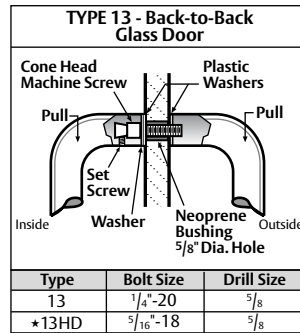
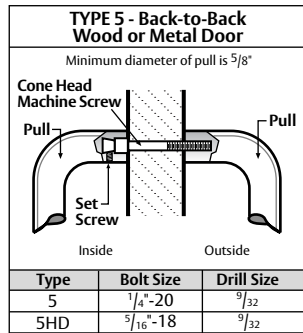
Free End Thru Bolt



Free End Concealed



Back-to-Back



*HD mountings feature 2 set screws 180° apart.

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Push and Pull Bar Mounting Details

Sizing of Push Bars

Flush Doors

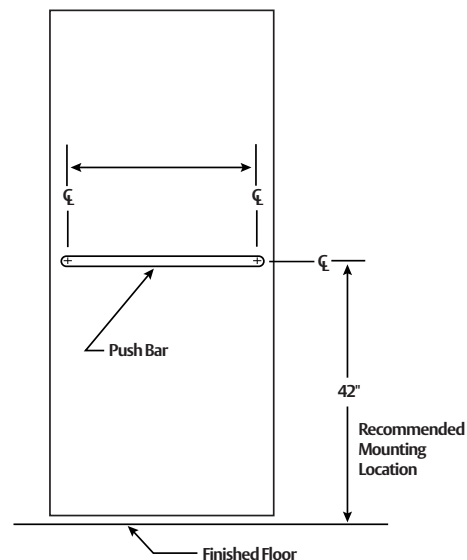
- Door width:
- minus 5" for bent end bars
 - minus 5" for square end post mount bars
 - minus 7" for round end post mount bars

Stile and Rail Doors or Doors with Lites

- Door width:
- minus width of one stile

CAUTION: Always confirm bars will not interfere with jamb or cause pinching hazard.

CAUTION: On narrow stile doors, be sure push bar base fits on the stile and bar does not interfere with the stop.

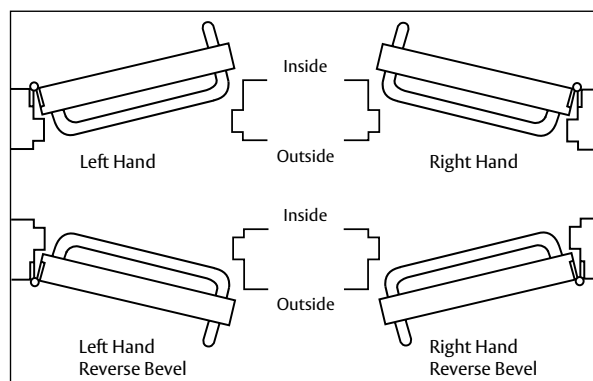


Handing of Doors

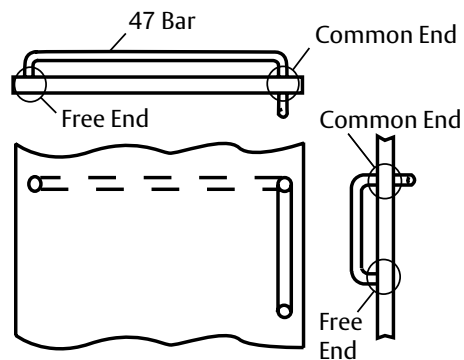
The handing of a door is determined from the outside of the opening.

Standing outside the door:

- If the hinges are on the right, it is a right hand door.
- If the hinges are on the left, it is a left hand door.
- If the door opens away from you, it is a regular bevel door.
- If the door opens toward you, it is a reverse bevel door.



Typical Mounting



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Prices Effective January 1, 2017

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