



Bracket	Dim. "B"		Dim. "C"
	Maximum	Minimum	Maximum
291	2(51)	1-1/2(38)	2-1/4(57)
291 A	2-3/4(70)		3(76)

Notes:

1. Do not scale drawing.
2. Right hand door shoow.
3. Dimensions are in inches (mm).
4. Hollow metal doors require channel or box type reinforcement when thru bolt mount is specified.
5. Sex bolts may be required for wood or plastic faced fire door mounting.
6. Minimum thickness recommended for reinforcements in hollow metal doors are frames: 1046" (2.66mm) unless other wise noted.

Opening	Dim. "A"
To 100°	7-5/8 (194)
100 to 120°	6-5/8 (168)
120 to 150°	4-5/8 (117)
150 to 180°	4-1/8 (105)

Preparation for Fasteners

		Fasteners	Door or Frame	Drill Sizes
Standard	#14 type "A" S.M. Screw Arm: 1-1/4" (32mm) Closer: 2-3/4" (70mm)	1/4-20 machine screw	Wood	7/32" (5.5 mm)
			Aluminum	
Optional	Sex nuts and bolts		Hollow Metal	9/32" (7.00mm) thru; 3/8" (9.50mm) on door or transom face opposite to closer
			Aluminum or Wood	3/8" (9.50mm.) thru
	Thru bolts and grommet nuts		All	9/32" (7.00mm) thru; 3/8" (9.50mm) dia. x 3/8" (10mm) deep on door or transom face opposite to closer

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400 Series Door Closers-Size 2 thru 6
4400 Series Door Closers-Multi-Size 1 to 6
 With 291 or 291A Mortised Bracket and With or Without
 486 Backplate Regular Non-Hold Open Arm Application

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