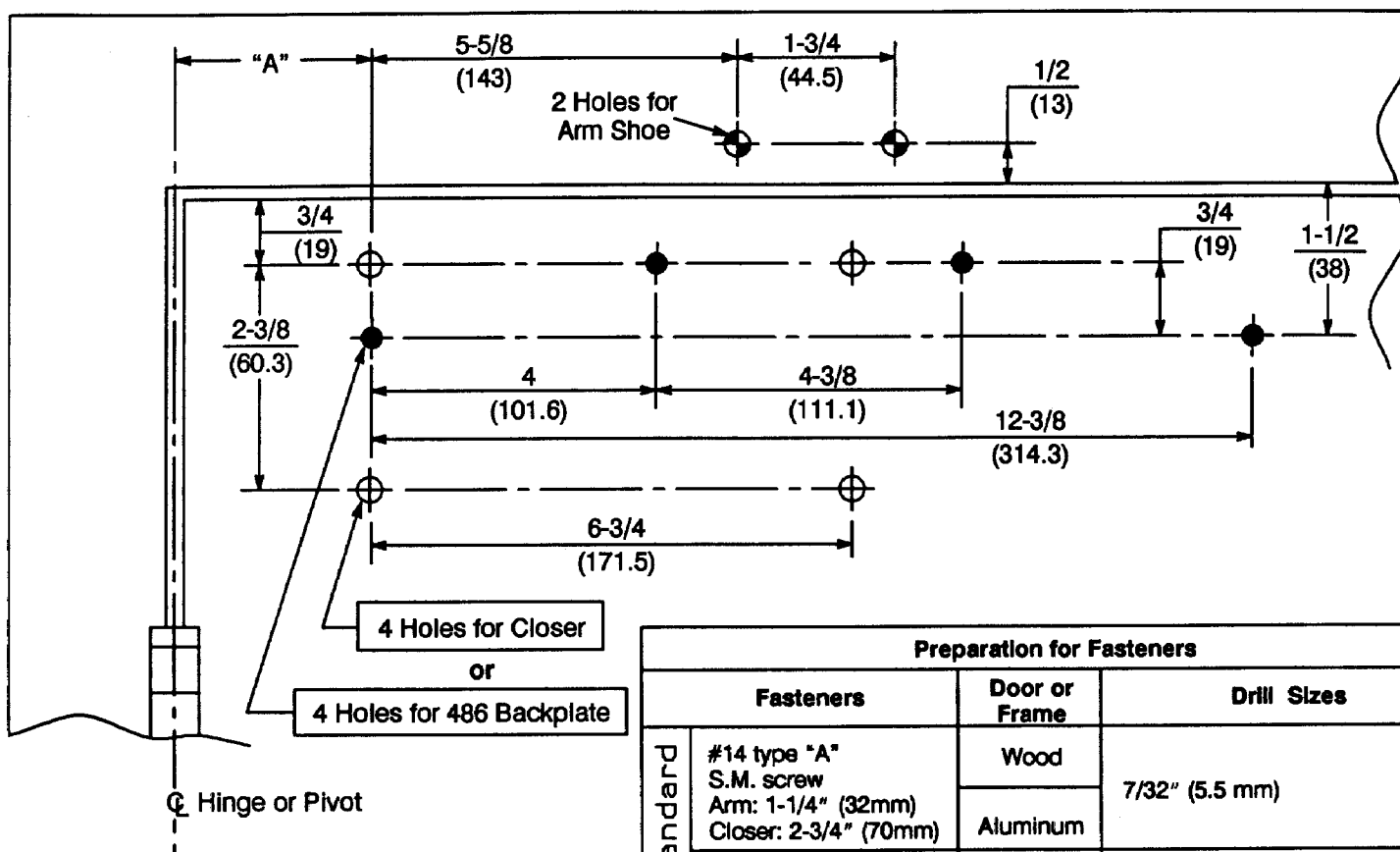


Opening	Dim. "A"
To 100°	7-5/8 (194)
100° to 120°	6-5/8 (168)
120° to 150°	4-5/8 (117)
150° to 180°	4-1/8 (105)



Caution: Door swing may be limited by door, frame, wall or hardware conditions (including closer projection).

Notes:

1. Do not scale drawing.
2. Right hand door shown.
3. Dimensions are in inches (mm).
4. Minimum ceiling clearance for door closer arm is 1" (25mm).
5. Hollow metal doors require channel or box type reinforcement when thru bolt mount is specified.
6. Sex bolts may be required for wood or plastic faced fire door mounting.
7. Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.

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)	Wood	7/32" (5.5 mm)
		Aluminum	
	1/4-20 machine screw	Metal	drill: #7 (.201") tap: 1/4-20
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

2400 Series Door Closers – Sized 2 thru 6
4480 Series Door Closers – Multi-Size 1 to 6
With or Without 486 Backplate
Regular Low Profile, Non-Hold Open Arm Application

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TEMPLATE NUMBER

80-7344-0110-010

DATE

8-04