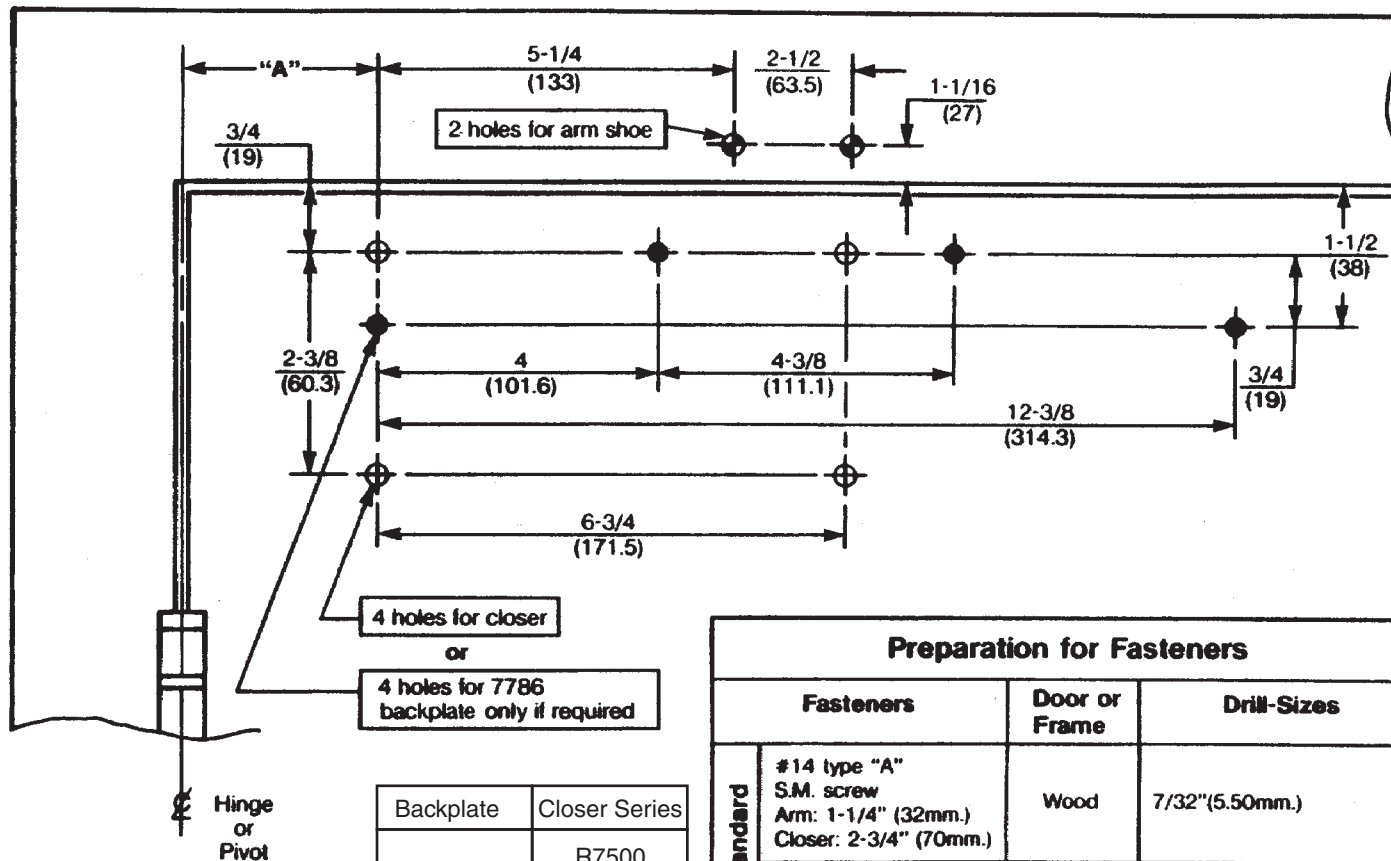


Door Opening	Dimension "A"	
	inches	mm.
To 100°	7-5/8	194
101° to 120°	6-5/8	168
121° to 150°	4-5/8	117
151° to 180°	4-1/8	105

**SPECIAL NOTE:**  
 Hinge side frame reveal must not exceed 1/8 (3) or 5/16 (8) if 7786 backplate is used.



Do Not Scale Drawing  
 Right Hand Door Shown  
 Dimensions are in  $\frac{\text{inches}}{\text{(mm.)}}$

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

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

Backplate	Closer Series
7786	R7500 R7700

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" (5.50mm.)
	1/4"-20 machine screw	Metal	drill: #7 (.201") tap: 1/4"-20
Optional	Sex nuts and bolts	Hollow-Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) on door or transom-face opposite to closer
		Aluminum or Wood	3/8" (9.50mm.) through
	Through-bolts and grommet-nuts	All	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. X 3/8" (10mm.) deep on door or transom-face opposite to closer

**R7500 Series Rigid Arm, 7570 Series Security Door Closer or  
 R7700 Series Rigid Arm, 7770 Security Door Closer  
 Regular Arm Application With or Without 7786 Back Plate  
 Power Sizes 0 for R7500 & 7570; 2, 3, 4, 5 or 6 for R7700 & 7770**



**ASSA ABLOY**

TEMPLATE NUMBER	REV	DATE
<b>7377-0601</b>	<b>3</b>	<b>12/21</b>