



**NOTES:**

- Do not scale drawing.
- Right hand door shown.
- Dimensions shown in inches. Metric equivalents charted.
- .1046" (2.7mm.) minimum recommended for hollow-metal door and frame reinforcements.
- SNB required to mount closer on steel covered composite type, sheet metal type, or hollow-metal type fire doors provided without reinforcements.
- SNB or TBGN may be required to mount closer on wood or plastic faced composite type fire doors.
- Hollow-metal doors require channel or box-type reinforcements when TBGN mount is specified for closers.

OPENING	DIM. A
To 100°	7
100° to 120°	6
Over 120°	3-1/2

METRIC CONVERSION					
inches	mm.	inches	mm.	inches	mm.
1/4	6.4	1-1/8	28.6	3-1/2	89
7/16	11.1	1-3/8	35	6	152
3/4	19.1	1-1/2	38.1	6-3/4	171
7/8	22.2	2-1/4	57.2	7	178
				9-1/16	230.2

PREPARATION FOR FASTENERS		
FASTENER	DOOR or FRAME	DRILL
#14 type "A" sheet metal screw	wood	7/32" (5.5mm)
1/4-20 machine screw	metal	#7 (.201" dia.) or 5.10mm. drill . . . 1/4-20 tap
SNB (optional)	hollow-metal	9/32" (7.00mm.) thru . . . 3/8" (9.50mm.) door face opposite to closer
	aluminum or wood	3/8" (9.50mm.) thru
TBGN (optional)	all	9/32" (7.00mm.) thru . . . 3/8" (9.50mm.) diameter x 3/8" (10mm.) deep, door face opposite to closer

**1600 Series Door Closers**  
**Regular Arm Application With 2403 Bracket**  
**Non Hold Open Arm for Molded or Bullnose Frame**  
**Individually Sized Units 3 and 4 & Multi-size Unit 1-6**



**ASSA ABLOY**

TEMPLATE NUMBER	REV	DATE
<b>7316-1108</b>	<b>4</b>	<b>12/21</b>