



Door Opening Angle		Dimensions			
Hold Open*	Dead Stop	Butts & Offset Pivots		Center Pivots	
		A	B	A	B
85°	90°	7-1/2	12-3/4	8-1/8	13-3/8
90°	95°	6-3/4	12	7-3/8	12-5/8
95°	100°	6-1/4	11-1/2	6-7/8	12-1/8
100°	105°	5-3/4	11	6-3/8	11-5/8
105°	110°	5-1/4	10-1/2	5-7/8	11-1/8
110°	115°	4-7/8	10-1/8	5-1/2	10-3/4

★Door must be free to swing 5° beyond hold-open position.

Notes:

Do not scale drawing.

Left hand door shown.

Dimensions are in inches.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified. Sex-bolts required for wood or plastic faced fire-door mounting.

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

Follow Conversion Chart for metric dimensions.

### Preparation for Fasteners

Fasteners	Application	Door or Frame	Drill-Sizes
Sex nuts and bolts	Closer Drop Plate	Hollow-Metal	9/32" (7.00 mm.) through; 3/8" (9.50 mm.) on door face opposite to closer
		Aluminum or Wood	3/8" (9.50 mm.) through
#14 x 1-1/4" (32mm) type "A" S.M. screw	Soffit plate 6190 Bracket	Wood	3/16" (4.30 mm.)
1/4" - 20 machine screw		Metal	drill: #7 (0.201" dia.) tap: 1/4" - 20
Through-bolts and grommet-nuts	Optional	All	9/32" (7.00 mm.) through; 3/8" (9.50 mm.) dia. x 3/8" (9.50 mm.) deep on door face opposite to closer

inches	mm	inches	mm	inches	mm	inches	mm
5/16	8	2-3/4	70	6-3/4	171	11-1/2	292
3/8	9.5	3-5/8	92	6-7/8	175	11-5/8	295
7/16	11	4	101.5	7-3/8	187	12	305
1/2	12.7	4-7/8	124	7-1/2	191	12-1/8	308
5/8	16	5-1/4	133	8-1/8	206	12-5/8	321
3/4	19	5-1/2	140	10-1/8	257	12-3/4	324
1-1/8	28.5	5-3/4	146	10-1/2	267	13-3/8	340
2	51	5-7/8	149	10-3/4	273		
2-1/8	54	6-1/4	159	11	279		
2-5/8	67	6-3/8	162	11-1/8	283		

**Unitrol® With 6191 Reinforcing Kit  
 Series UNI-8300, UNI-8301,  
 UNI-8500, UNI-8501  
 Doors 33" - 41" (0.85 - 1.00m)**

**Parallel Arm Installation Template  
 Stop Only or Hold Open Unitrol®  
 Backcheck or Delayed Action Door Closer  
 With or Without 8148 Drop Plate**



**ASSA ABLOY**

TEMPLATE NUMBER	REV	DATE
<b>7380-1358</b>	<b>3</b>	<b>12/21</b>