



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

inches	mm.	inches	mm.	inches	mm.
5/16	8	5-1/4	133	10-3/4	273
3/8	9.5	5-1/2	139.5	11	279.5
7/16	11	5-3/4	146	11-1/8	282.5
3/4	19	5-7/8	149	11-1/2	292
1-1/8	28.5	6-1/4	158.5	12	305
1-1/4	31.5	6-3/4	171.5	12-5/8	320.5
2	51	7-3/8	187.5	12-3/4	324
2-3/4	70	7-1/2	190.5	13-1/4	336.5
3	76	8	203		
4	101.5	10-1/8	257		
4-7/8	124	10-1/2	266.5		

Preparation for Fasteners			
Fasteners	Application	Door or Frame	Drill Sizes
Sex nuts and bolts	Closer Drop Plate	Hollow Metal	9/32" (7.00mm) through 3/8" (9.50mm) door face opposite to closer
		Alluminum or Wood	3/8" (9.50mm) through
#14 x 1-1/4" (32mm) type "A" S.M. screws	Soffit plate 6190 Bracket	Wood	3/16" (4.30mm)
		Metal	drill: #7 (.201") tap: 1/4-20
1/4-20 machine screw			
Through bolts and grommet nuts	Optional	All	9/32" (7.00mm) through 3/8" (9.50mm) dia. x 3/8" (10mm) deep, door face opposite to closer

**Unitrol® Standard Application
 Series UNI-8300, UNI-8301,
 UNI-8500, UNI-8501
 Doors 33" - 41" (0.85-1.00m) Wide**

**Parallel Arm Installation Template
 Stop Only or Hold Open Unitrol®
 Backcheck or Delayed Action Door Closer
 With or Without 8148 Drop Plate
 With or Without 6190 Bracket**



ASSA ABLOY

TEMPLATE NUMBER	REV	DATE
7380-1352	3	12/21