



Door Opening Angle		Dimensions			
Hold Open ★	Dead Stop	Butts and Offset Pivots		Center Pivots	
		A	B	A	B
85°	90°	9-3/4	15-1/8	10-1/8	15-1/2
90°	95°	8-7/8	14-1/4	9-3/8	14-3/4
95°	100°	8-1/4	13-5/8	8-5/8	14
100°	105°	7-5/8	13	8-1/8	13-1/2
105°	110°	7-1/8	12-1/2	7-5/8	13
110°	115°	6-3/4	12-1/8	7-1/8	12-1/2

★ 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	7-1/8	181	12-1/2	317.5
3/8	9.5	7-5/8	193.5	13	330
7/16	11	8-1/8	206	13-1/2	343
3/4	19	8-1/4	209.5	13-5/8	346
1-1/8	28.5	8-5/8	219	14	355.5
1-1/4	31.5	8-7/8	225.5	14-1/4	362
2	51	9-3/8	238	14-3/4	374.5
2-3/4	70	9-3/4	247.5	15-1/8	384
3	76	10-1/8	257	15-1/2	393.5
4	101.5	12	305		
6-3/4	171.5	12-1/8	308		

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
		Aluminum 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)
1/4-20 machine screw		Metal	drill: #7 (.201") tap: 1/4-20
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 42" - 48" (1.05-1.20m) 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

www.nortondoorcontrols.com

TEMPLATE NUMBER

7380-1353

DATE

09-08