



Door Opening Angle		Dimensions			
Hold Open*	Dead Stop	Butts & Offset Pivots		Center Pivots	
		A	B	A	B
85°	90°	5-1/8	10-3/8	5-3/4	11
90°	95°	4-1/2	9-3/4	5-1/8	10-3/8
95°	100°	4	9-1/4	4-5/8	9-7/8
100°	105°	3-5/8	8-7/8	4-1/4	9-1/2
105°	110°	3-1/4	8-1/2	3-7/8	9-1/8
110°	115°	2-7/8	8-1/8	3-5/8	8-7/8

★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.)
		Metal	drill: #7 (0.201" dia.) tap: 1/4" - 20
1/4" - 20 machine screw			
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	5-1/8	130	10-3/8	263.5
3/8	9.5	2-7/8	73	5-3/4	146	11	279.5
7/16	11	3	76	8-1/8	206	12	305
1/2	12.7	3-1/4	82.5	8-1/2	216		
5/8	16	3-5/8	92	8-7/8	225.5		
3/4	19	3-7/8	98.5	9-1/8	232		
1-1/8	28.5	4	101.5	9-1/4	235		
2	51	4-1/4	108	9-1/2	241.5		
2-1/8	54	4-1/2	114	9-3/4	247.5		
2-5/8	67	4-5/8	117	9-7/8	251		

Unitrol® With 6191 Reinforcing Kit
Series UNI-8300, UNI-8301,
UNI-8500, UNI-8501
Doors 28" - 32" (0.70 - 0.80m)

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



TEMPLATE NUMBER	REV	DATE
7380-1357	3	12/21