



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

Notes:

- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches (mm).
- Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- Sex-bolts may be required for wood or plastic faced fire-door mounting.
- Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm).
- UNI-3110, UNI-3310 and UNI-3510 Series have a hold open arm feature and are not permitted to be used on fire door assemblies.

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	7/32" (5.5 mm)
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

Door Opening Angle		Dimensions			
Hold Open ★	Dead Stop	Butts and Offset Pivots		Center Pivots	
		A	B	A	B
85°	90°	9-3/4 (247.5)	15-1/8 (384)	10-1/8 (257)	15-1/2 (393.5)
90°	95°	8-7/8 (225.5)	14-1/4 (362)	9-3/8 (238)	14-3/4 (374.5)
95°	100°	8-1/4 (209.5)	13-5/8 (346)	8-5/8 (219)	14 (355.5)
100°	105°	7-5/8 (193.5)	13 (330)	8-1/8 (206.5)	13-1/2 (343)
105°	110°	7-1/8 (181)	12-1/2 (317.5)	7-5/8 (193.5)	13 (330)
110°	115°	6-3/4 (171.5)	12-1/8 (308)	7-1/8 (181)	12-1/2 (317.5)

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UNI-3100, UNI-3300, UNI-3500 Non Hold Open/Stop Arm
 UNI-3110, UNI-3310, UNI-3510 Hold Open/Stop Arm
 Door Closer Sizes 1, 1BF, 2, 3, 4, 5 or 6 Parallel Arm Application with 6190 Bracket 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 3148 Drop Plate

Template Number: 7303-1353
 Sheet: 1 of 1
 Date: 12/23

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