



◆ No. 88 drop plate mounting holes only

Notes:

- Do not scale drawing.
- All dimensions shown in $\frac{\text{inches}}{\text{(mm.)}}$.
- Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement.

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

Door Opening Angle		Dimensions*							
Hold Open**	Dead Stop	Butts and Offset Pivots				Center Pivots			
		Dimension A		Dimension B		Dimension A		Dimension B	
		Inches	mm.	Inches	mm.	Inches	mm.	Inches	mm.
85°	90°	16 ³ / ₈	416	15 ¹ / ₄	387	17 ¹ / ₈	435	16	406
90°	95°	15 ¹ / ₂	394	14 ³ / ₈	365	16 ¹ / ₄	413	15 ¹ / ₈	384
95°	100°	14 ³ / ₄	375	13 ⁵ / ₈	346	15 ¹ / ₂	394	14 ³ / ₈	365
100°	105°	14 ¹ / ₈	359	13	330	14 ⁷ / ₈	378	13 ³ / ₄	349
105°	110°	13 ⁵ / ₈	346	12 ¹ / ₂	318	14 ³ / ₈	365	13 ¹ / ₄	336
110°	115°	13 ¹ / ₈	333	12	305	13 ⁷ / ₈	352	12 ³ / ₄	324

* "A" and "B" dimensions measured from centerline of hinge or pivot.
 ** Door must be free to swing up to 5° beyond hold open position.

**Unitrol Standard Application
 Series 78-B/F
 Doors 42" - 48" (1.05 - 1.20m) Wide**

**Parallel Arm Installation Template
 Stop Only or Hold-Open Unitrol Door Closer
 With or Without No. 88 Drop Plate**



TEMPLATE NUMBER	REV	DATE
7349-1355	3	12/21