



◆ 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°	14	356	12 <sup>7</sup> / <sub>8</sub>	327	14 <sup>3</sup> / <sub>4</sub>	375	13 <sup>5</sup> / <sub>8</sub>	346
90°	95°	13 <sup>3</sup> / <sub>8</sub>	340	12 <sup>1</sup> / <sub>4</sub>	311	14 <sup>1</sup> / <sub>8</sub>	359	13	330
95°	100°	12 <sup>3</sup> / <sub>4</sub>	324	11 <sup>5</sup> / <sub>8</sub>	295	13 <sup>1</sup> / <sub>2</sub>	343	12 <sup>3</sup> / <sub>8</sub>	314
100°	105°	12 <sup>1</sup> / <sub>8</sub>	308	11	279	12 <sup>7</sup> / <sub>8</sub>	327	11 <sup>3</sup> / <sub>4</sub>	298
105°	110°	11 <sup>5</sup> / <sub>8</sub>	295	10 <sup>1</sup> / <sub>2</sub>	267	12 <sup>3</sup> / <sub>8</sub>	314	11 <sup>1</sup> / <sub>4</sub>	286
110°	115°	11 <sup>1</sup> / <sub>4</sub>	286	10 <sup>1</sup> / <sub>8</sub>	257	12	305	10 <sup>7</sup> / <sub>8</sub>	276

\* "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 33" - 41" (0.85 - 1.00m) Wide**

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



TEMPLATE NUMBER	REV	DATE
<b>7349-1353</b>	<b>3</b>	<b>12/21</b>

Approved 2022-05-02