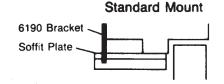


Preparation for Fasteners									
Fasteners	Application	Door or Frame	Drill Sizes						
Sex-nuts and bolts	Closer Drop plate	Hollow Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door face opposite to closer						
		Aluminum or Wood	3/8" (9.50mm.) through						
#14 x 1-1/4" (32mm.) type "A" S.M. screws	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						



No. 88 drop plate mounting holes only

Notes:

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

Door Opening Angle		Dimensions*									
Hold Dead Open Stop	Dead	Butts and Offset Pivots			Center Pivots						
	Dimension A		Dimension B		Dimension A		Dimension B				
		Inches	mm.	inches	mm.	Inches	mm.	Inches	mm.		
85°	90°	115/8	295	103/8	263	123/8	314	111/8	282		
90°	95°	11	279	93/4	247	113/4	298	101/2	266		
95°	100°	101/2	266	93/8	238	111/4	286	10	254		
100°	105°	10	254	83/4	222	103/4	273	91/2	241		
105°	110°	91/2	241	81/4	209	101/4	260	9	229		
110°	115°	91/8	231	71/8	200	97/8	251	85/8	219		

- * "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 28" - 32" (0.70 - 0.80m) Wide Parallel Arm Installation Template
Stop Only or Hold-Open Unitrol Door Closer
With or Without No. 88 Drop Plate

ASSA ABLOY

TEMPLATE NUMBER R

7349-1351

12/21

Approved 2022-05-02