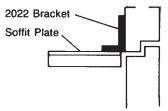


Preparation for Fasteners								
Fasteners	Application	Door or Frame	Drill Sizes					
Sex-nuts and bolts	Closer Drop plate 2022 Bracket	Hollow Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door face opposite to closer					
		Aluminum or wood	3/8" (9.50mm.) through					



Notes:

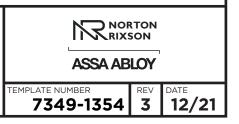
- Do not scale drawing.
- All dimensions shown in  $\frac{\text{inches}}{(\text{mm.})}$ .
- Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement. Hollow metal frames require full width header reinforcement.

Door Opening Angle		Dimensions*									
Hold Dead Open Stop	Dead	Butts and Offset Pivots			Center Pivots						
	Stop	Dimension A		Dimension B		Dimension A		Dimension B			
	11	Inches	mm.	Inches	mm.	Inches	mm.	Inches	mm.		
<b>8</b> 5°	90°	14	356	13	330	143⁄4	375	13¾	349		
90°	95°	13¾	340	123/8	314	141/8	359	131/8	333		
95°	100°	12¾	324	113⁄4	298	131/2	343	121/2	318		
100°	105°	121/8	308	111/8	283	127/8	327	117/8	302		
105°	110°	115/8	295	105⁄8	270	123⁄8	314	<b>1</b> 13⁄8	289		
110°	115°	111/4	286	101⁄4	260	12	305	11	279		

\* "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 With 2022 Bracket Series 78-B/F Doors 33" - 41" (0.85 - 1.00m) Wide Parallel Arm Installation Template - Flush Partitions Stop Only or Hold-Open Unitrol Door Closer With or Without No. 88 Drop Plate



Approved 2022-05-02