

# 1600 Door Closer

Standard Frame - Push Side  
Narrow Frame - Push Side  
Flush Partition - Push Side

# Parallel Rigid Arm (PR) CloserPlus (CLP)

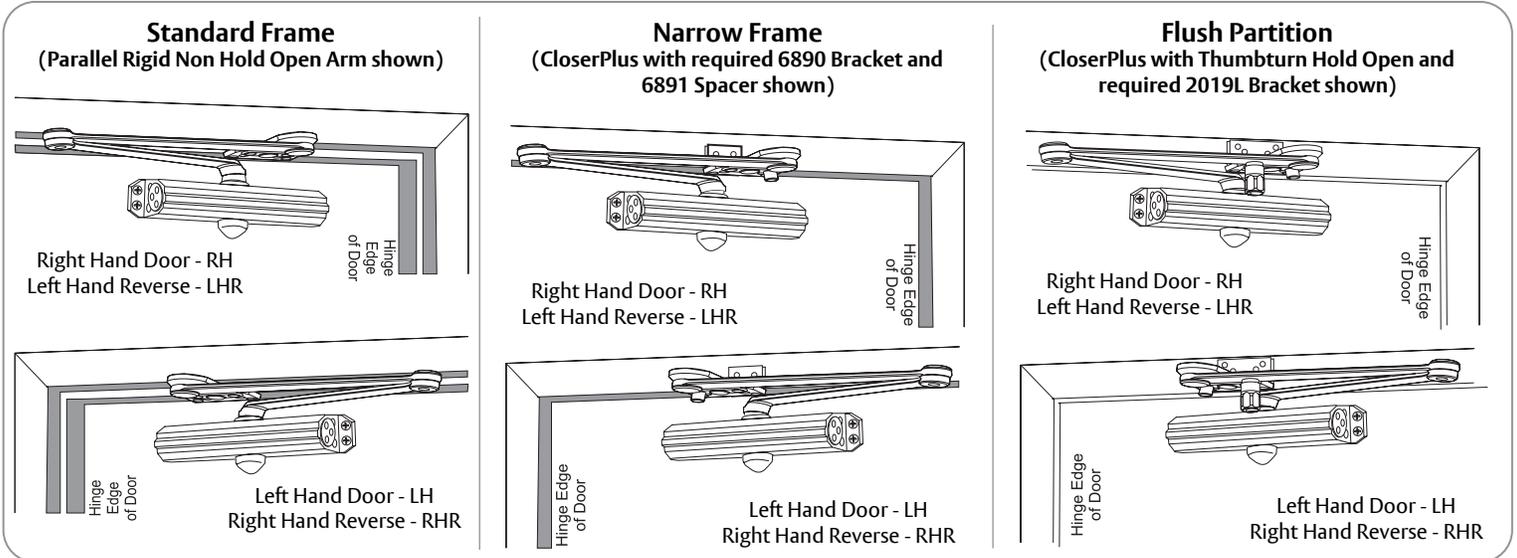
Sized (Sizes 3,4) PR1603BC/PR1604BC CLP1603BC/CLP1604BC	Adjustable (Sizes 1-6) PR1601 CLP1601
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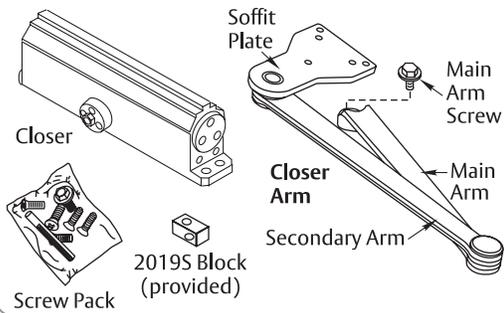
## WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

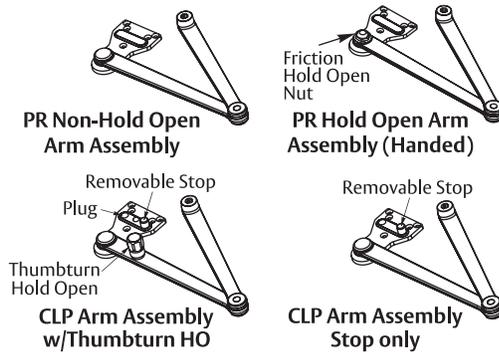
Ce produit peut vous exposer au plomb qui, dans l'état de la Californie, est reconnu pour causer le cancer, des anomalies congénitales ou d'autres problèmes de reproduction. Pour plus d'informations, visitez: [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).



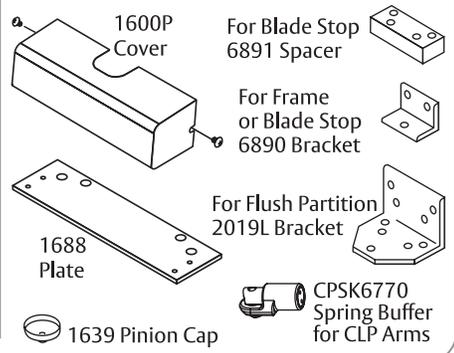
### Included Components (See page 2 for mounting hardware)



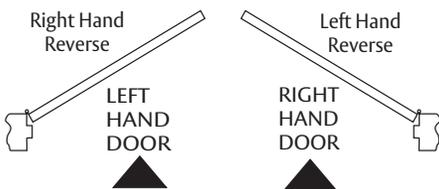
### Optional Arms with Riveted Elbows



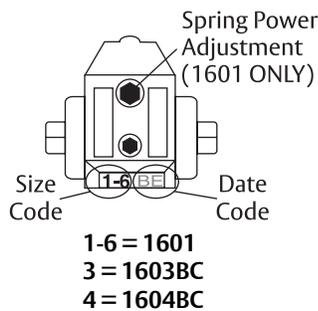
### Optional Components



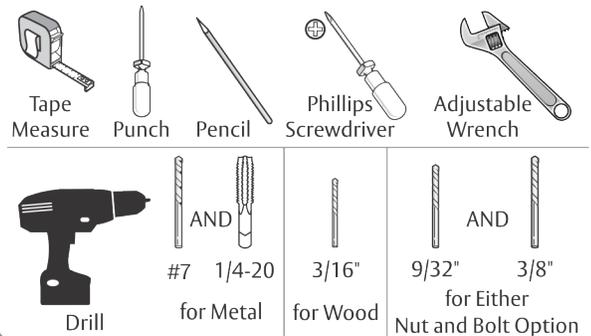
### To Determine Your Hand of Door:



### To Identify Your Model:



### Tools Needed



### ATTENTION:

An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment.

- For special applications, a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.
- Doors should be hung on ball bearing or anti-friction hinges.
- A separate door stop is recommended.

- Always consult door/frame manufacturer for fastener compatibility.
- Door and frame must be properly reinforced.
- Adjust closing time speed between 4 and 7 seconds from 90° to 0°. Use of door by handicapped, elderly or small children may require greater closing time.
- These door closers should NOT be installed on exposed side (weather side) of exterior doors.
- Dimensions are given in inches (millimeters).

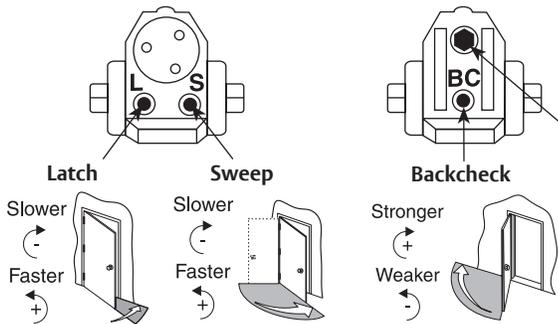
Mounting Hardware	Door or Frame	Drill
 <b>Closer, Arm Shoe or Optional PA Bracket:</b> 1/4-14 x 1-1/2 Oval Flat Head Mach. Screw	Wood	3/16" (4.76mm)
 <b>Closer and Soffit Plate:</b> 1/4-20 x 3/4 Oval Flat Head Mach. Screw	Metal	Drill #7 (.201 dia. or 5.10mm) Tap 1/4-20
 <b>Closer:</b> Sleeve Nut and Bolt (SNB) (optional)	Hollow Metal	9/32" (7.00mm) thru 3/8" (9.50mm) door face opposite to closer
	Aluminum or Wood	3/8" (9.50mm) thru
 <b>Closer:</b> Thru Bolt and Grommet Nut (TBGN) (optional)	All	9/32" (7.00mm) thru 3/8" (9.50mm) dia. x 3/8" (9.500mm) deep, door face opposite to closer

## Closer Adjustments



Use provided 1/8" hex wrench to turn valves. NEVER force valves out of closer. NEVER completely close backcheck valve.

Door must be open to adjust spring closing power. Refer to chart. Do not use a power drill. Warranty will be void.

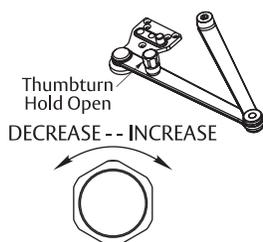


		Spring Closing Power	Number of Turns Required				
DOOR	Parallel Arm	*	MAXIMUM DOOR SIZE				
			34" (0.85M)	36" (0.90M)	40" (1.00M)	44" (1.10M)	48" (1.20M)
INTERIOR	PR1601/ CLP1601	FULL 360° TURNS	3	5	8	11	14
EXTERIOR			5	8	11	16	19

\*30 FULL (360°) TURNS MAXIMUM AVAILABLE  = 8 TURNS AS SHIPPED

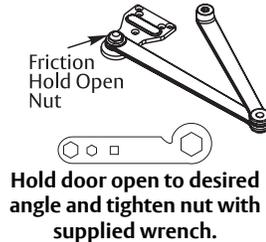
## Thumbturn Hold-Open

Option for CloserPlus Arm  
(Units suffixed T)



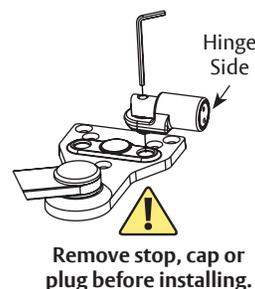
## Friction Hold-Open

Option for Parallel Rigid Arm  
(Units suffixed H; Handed)

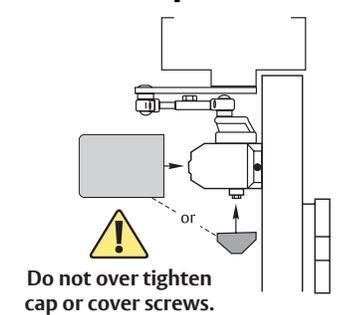


## Spring Buffer

Option for CLP Arm



## Pinion Cap or Cover

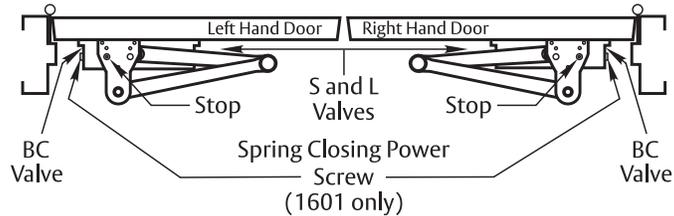


## 1. Prepare door and frame.

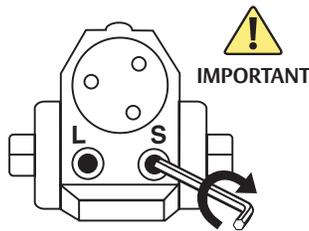
1. Determine closer model, arm model and all optional components are appropriate for desired application.
2. Select angle of opening.
3. Using standard frame, narrow frame or flush partition template, mark and drill four (4) holes on push side of door for closer body (Dims A and B) **OR** 1688 drop plate (Dims A and C).
4. Using template, mark and drill five (5) holes on stop and/or rabbet for soffit plate **OR** four (4) holes on transom face for 2019L bracket.

**i** NOTE: A separate door and frame preparation template is required for applications not covered in these instructions.

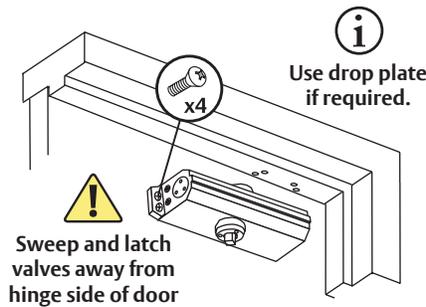
**!** NOTE: Be sure to measure from centerline of pivot.



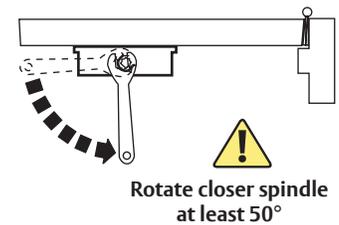
## 2. Close latch and sweep valves.



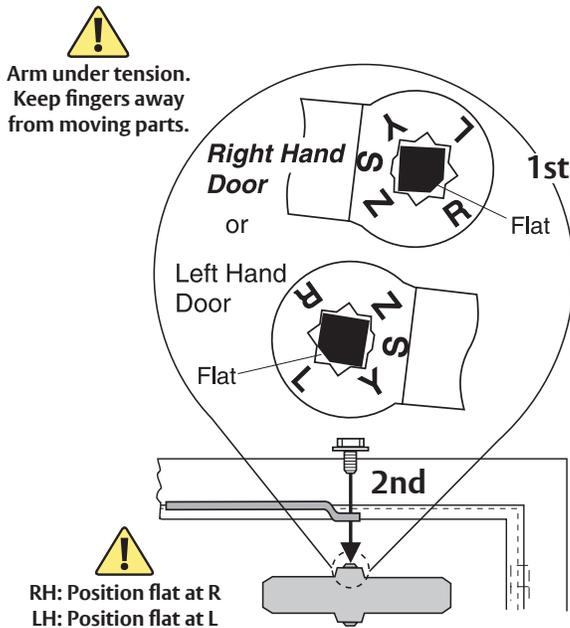
## 3. Mount closer.



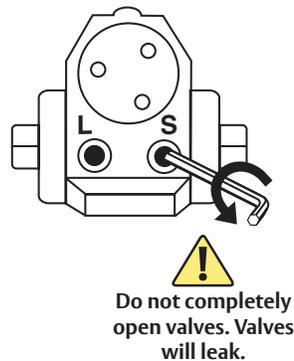
## 4a. Rotate closer spindle.



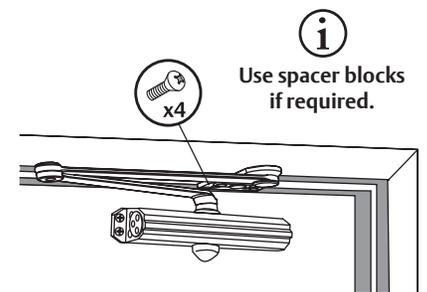
## 4b. Install arm.



## 5. Open latch and sweep valves.



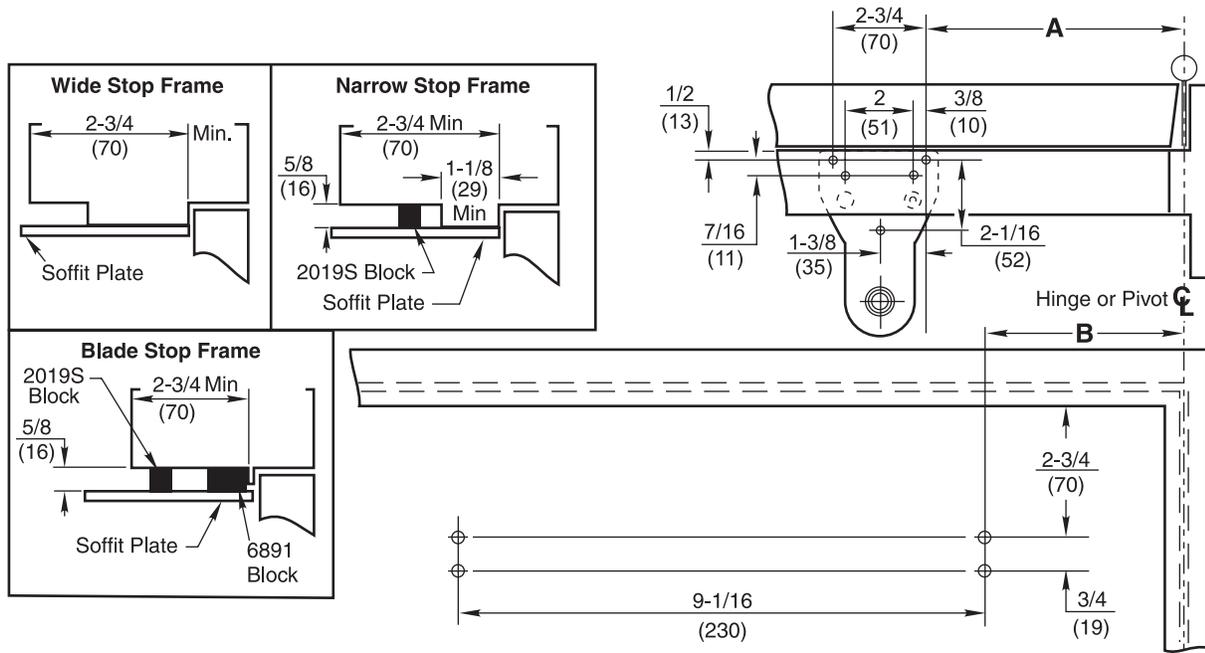
## 6. Fasten soffit plate to frame with door closed.



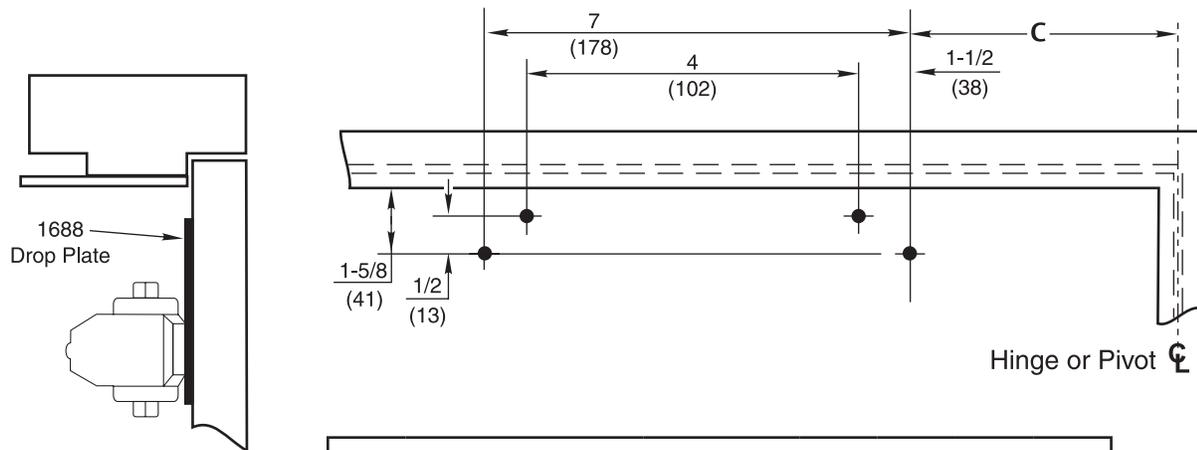
You've now installed the PR1600 or CLP1600 Closer.

● Go to page 2 for closer adjustments and decorative cap or cover installation.

Standard Frame Applications (Right Hand Shown)



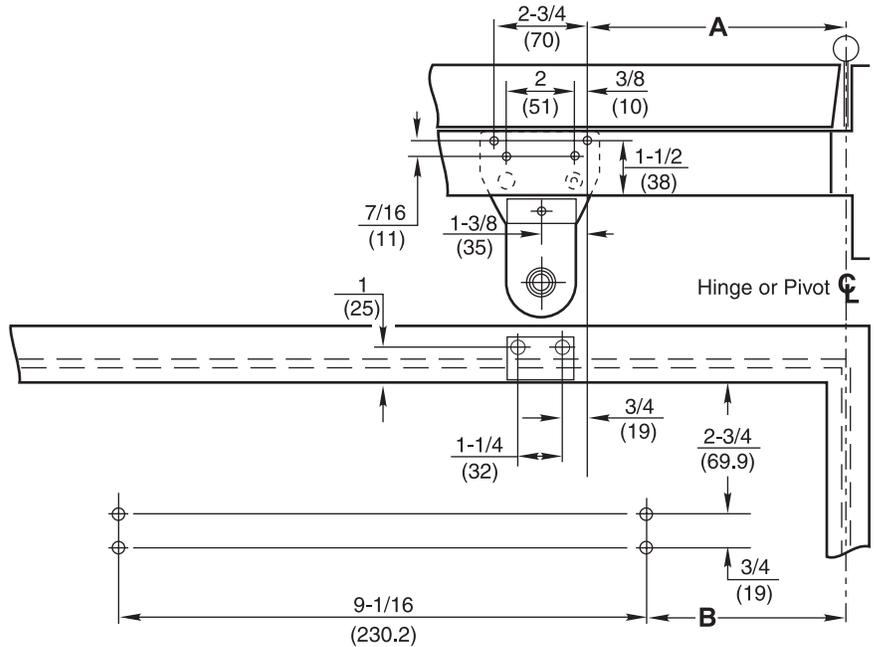
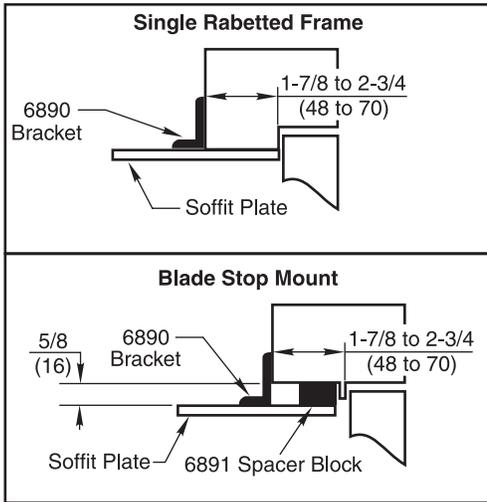
Standard Frame With 1688 Drop Plate Applications (Right Hand Shown)



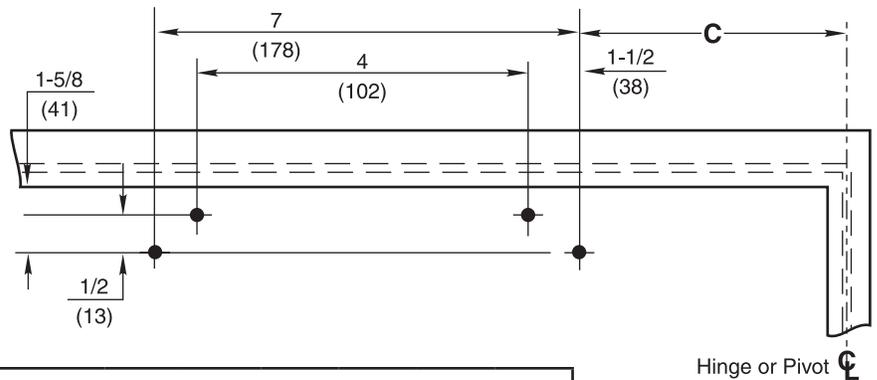
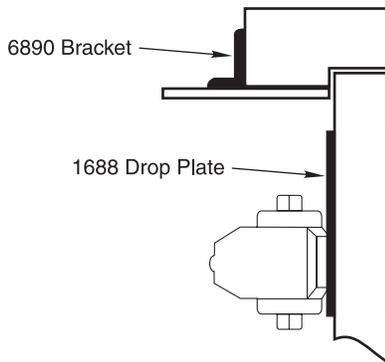
		Standard Frame							
	Dim	Up to 85°	85° - 90°	90° - 95°	95° - 100°	100° - 105°	105° - 110°	110° - 130°	130° - 180°
Parallel Rigid Models	A	9-5/8 (244)			8-1/8 (206)			6-1/8 (156)	
	B	7-5/8 (194)			6-1/8 (156)			4-1/8 (105)	
	C	8-5/8 (219)			7-1/8 (181)			5-1/8 (130)	
CloserPlus Models	A	11-1/8 (283)	10-3/8 (264)	9-5/8 (244)	9 (229)	8-3/8 (213)	7-3/4 (197)	-	-
	B	9-1/8 (232)	8-3/8 (213)	7-5/8 (194)	7 (178)	6-3/8 (162)	5-3/4 (146)	-	-
	C	10-1/8 (257)	9-3/8 (238)	8-5/8 (219)	8 (203)	7-3/8 (187)	6-3/4 (171)	-	-

# Narrow Frame Templates (Right Hand Shown)

## Narrow Frame Applications (Right Hand Shown)



## Narrow Frame With 1688 Drop Plate Applications (Right Hand Shown)

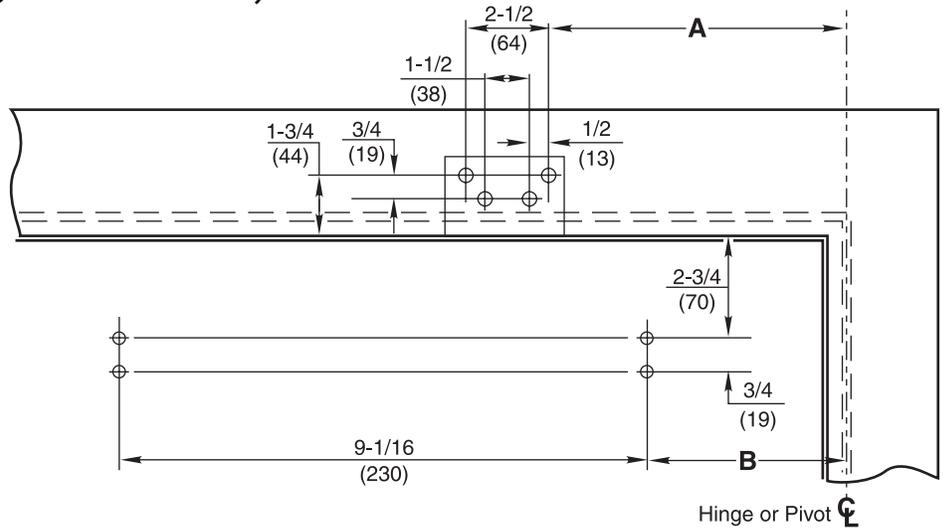
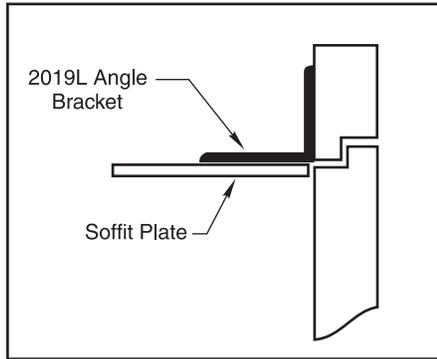


		Narrow Frame							
	Dim	Up to 85°	85° - 90°	90° - 95°	95° - 100°	100° - 105°	105° - 110°	110° - 130°	130° - 180°
Parallel Rigid Models	A		9-5/8 (244)				8-1/8 (206)		6-1/8 (156)
	B		7-5/8 (194)				6-1/8 (156)		4-1/8 (105)
	C		8-5/8 (219)				7-1/8 (181)		5-1/8 (130)
CloserPlus Models	A	11-1/8 (283)	10-3/8 (264)	9-5/8 (244)	9 (229)	8-3/8 (213)	7-3/4 (197)	-	-
	B	9-1/8 (232)	8-3/8 (213)	7-5/8 (194)	7 (178)	6-3/8 (162)	5-3/4 (146)	-	-
	C	10-1/8 (257)	9-3/8 (238)	8-5/8 (219)	8 (203)	7-3/8 (187)	6-3/4 (171)	-	-

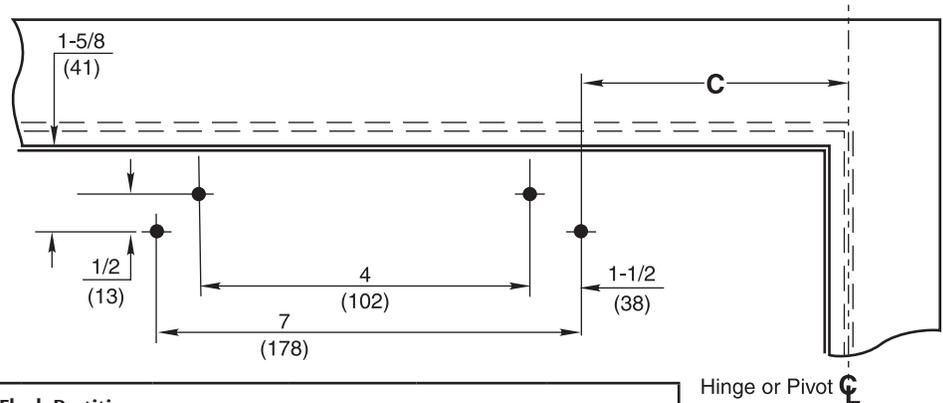
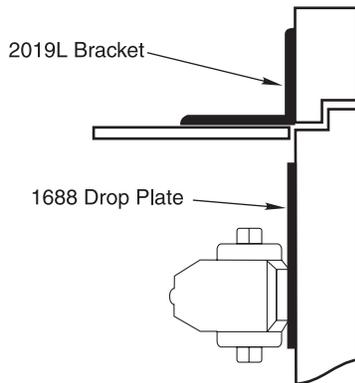
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## Flush Partition Templates (Right Hand Shown)

### Flush Partition Applications (Right Hand Show)



### Flush Partitions With 1688 Drop Plate Applications (Right Hand Shown)



		Flush Partition							
	Dim	Up to 85°	85° - 90°	90° - 95°	95° - 100°	100° - 105°	105° - 110°	110° - 130°	130° - 180°
Parallel Rigid Models	A	9-3/4 (248)				8-1/4 (210)		6-1/4 (159)	
	B	7-5/8 (194)				6-1/8 (156)		4-1/8 (105)	
	C	8-5/8 (219)				7-1/8 (181)		5-1/8 (130)	
CloserPlus Models	A	11-1/4 (286)	10-1/2 (267)	9-3/4 (248)	9-1/8 (232)	8-1/2 (216)	7-7/8 (200)	-	-
	B	9-1/8 (232)	8-3/8 (213)	7-5/8 (194)	7 (178)	6-3/8 (162)	5-3/4 (146)	-	-
	C	10-1/8 (257)	9-3/8 (238)	8-5/8 (219)	8 (203)	7-3/8 (187)	6-3/4 (171)	-	-

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