



Surface Applied  
Door Closers

# **DORMA TS93**

## The TS93 System in Contur Design represents the pinnacle of surface applied closers because of its unique cam and roller design.

Doors equipped with the TS93 will open much easier than doors with rack and pinion closers with track arms. The TS93 is a closer with regular arm operating efficiency and track arm aesthetics. When necessary, push side installation provides the benefits of track arm assemblies with the closer mounted to the door and the track mounted to the stop, creating a more tamper-resistant application.

### Technical Details:

- Available as TS9315 closers for interior and exterior barrier-free requirements (adjustable size 1–5).
- Available as TS9356 closers for greater closing force for exceptionally wide, tall, or heavy doors (size 5–6 +50% adjustment).
- Adjustable backcheck prevents uncontrolled opening of door.
- Adjustable delayed action extends the closing cycle to allow unobstructed passage through opening.
- Optional hold open, adjustable for degree of hold open and hold open force. Hold open is selectable on or off.
- SN3 sex nuts supplied standard for 1-3/4" thick door.
- Optional (CS) cushion limit stay for standard (T/PT) applications to assist slowing door in opening cycle (auxiliary stop required by others).

### Certification:

The DORMA TS9315/TS9356 Series are listed by U.L. and C.U.L. under their continuing reinspection programs. The TS9315/TS9356 Series are certified to the requirements of ANSI/BHMA A156.4 Grade 1. The TS93 is compliant with UL10C and UBC 7.2 (1997) for positive pressure. The TS9315 meets the requirements of ANSI/BHMA A117.1 and ADA for barrier-free accessibility. California State Fire Marshall Approved (CSFM).

### Specification:

The TS93 System in Contur Design hydraulic surface applied closer with steel cam, roller, and adjustable spring, incorporating a track arm assembly. The TS93 will have two separate temperature compensating, noncritical adjustment valves to control sweep and latch closing speeds. Adjustable backcheck will take effect at approximately 65°. Adjustable hydraulic delayed action will be effective from approximately 120° to approximately 70°. The TS9315 will be available with field-adjustable spring power from size 1 to 5 for barrier-free requirements. The TS9356 will be adjustable from size 5 to 6 with 50% adjustment. Maximum opening range will be approximately 175° for pull side installations (T/ST) and 110° (PT) or 135° (SPT) for push side installations. Install the TS93 closer body on the door and the track arm assembly on the stop



surface with the supplied bracket for push side (PT) applications. The TS93 will be non-handed.

### Optional Specifications:

All TS93 closers to have hold open, adjustable for degree of hold open and hold open force. All TS93 closers to have optional heavy-duty spring stop track arms to assist stopping the door in the opening cycle. Degree of stop to be field selectable.

**Warranty:** 25 years for projects within the United States. For full details, refer to the **Limited Warranty Policy** in the current DORMA price list.

### Finishes:

#### Standard Sprayed Finishes:

Aluminum: 689.  
Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic).  
Gold: 696.  
Black: 693.

#### Optional DORMA Custom Color or Designer Color Finishes:

Contact Customer Service.

#### Optional Plated Finishes:

Brass: 605 (Bright).  
Stainless: 630 (Satin).

Closer cover, arm, and track channel are plated. Cover end caps and track end caps are painted complementary or contrasting color.

### REDUCED OPENING FORCE INSTALLATIONS CAUTION:

Manual door closers, including closers certified to meet ANSI/BHMA A156.4, when installed and adjusted to conform to ADA or other reduced opening force requirements, may not provide sufficient power to reliably close and latch a door.

Refer to catalog for ED800 Low Energy Operator to meet reduced opening force requirements without affecting closing power.

Features	TS9315 T	TS9356 T	TS9315 PT	TS9356 PT
Adjustable spring size	1-5	5-6 +50%	1-5	5-6 +50%
Pull side application	•	•	-	-
Push side application	-	-	•	•
Controlled closing with two adjustable valves	175°-0° 7°-0°	175°-0° 7°-0°	110°-0° 7°-0°	110°-0° 7°-0°
Hydraulic backcheck	•	•	•	•
Hydraulic delayed action	•	•	•	•
Hold open	○ (H)	○ (H)	○ (H)	○ (H)
Dead stop	○ (ST)	○ (ST)	○ (SPT)	○ (SPT)
Dead stop with hold open	○ (STH)	-	-	-

• yes    -no    ○ option



The quality management system at the Reamstown, PA facility is certified to ISO-9001:2008.\*



\*DORMA Door Controls Inc., dba: DORMA Architectural Hardware

### How to Order TS93 Series

Arm Type		Painted	
171°-180° Pocket Mount	<b>TPKT180</b>	Special Sprayed Finish (specify)	<b>PNT</b>
120°-170° Pocket Mount	<b>TPKT170</b>	Gold	<b>696</b>
90°-119° Pocket Mount	<b>TPKT119</b>	Dark Duranodic Bronze	<b>695</b>
90° Pocket Mount	<b>TPKT90</b>	Black	<b>693</b>
Spring Stop Track Hold Open (Pull)	<b>STH</b>	Dull Bronze	<b>691</b>
Push Side Track Hold	<b>PTH</b>	Statuary Bronze	<b>690</b>
Pull Side Track Hold	<b>TH</b>	Aluminum	<b>689</b>
Spring Stop Track (Push)	<b>SPT</b>	Primed	<b>600</b>
Spring Stop Track (Pull)	<b>ST</b>	<b>Plated</b>	
Push Side Track	<b>PT</b>	Satin Stainless Steel	<b>630</b>
Pull Side Track	<b>T</b>	Bright Brass	<b>605</b>

<b>TS93</b>	<b>15</b>	<b>T</b>	<b>SN3</b>	<b>689</b>
Model	56	Size 1-5 Sex Nuts for 1-3/4" Door	SN3 SN4	Options CS - Cushion Stop
Spring Size		Fastener Pack		

## Track Installation x Jamb Mounted Slide Track Arm

TS9315 T  
TS9315 THO

TS9356 T  
TS9356 THO

4-1/2" x 4-1/2" Butt Hinges


#### Size Selection Chart

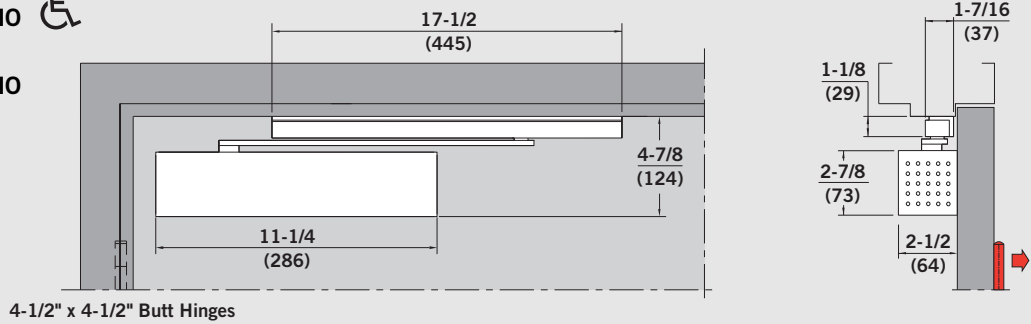
CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH						MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN	MINIMUM DOOR WIDTH	
		2'-0" min.	2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.							5'-0" max.
TS9315	INTERIOR	•	•	♿	♿	♿	N/A	N/A	175°	65°-175°	120°-70°	50°	140°	24"
TS9356	INTERIOR	N/A	N/A	N/A	N/A	•	•	•						

- - Recommended application.
- ♿ - Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A - Not applicable/application not recommended




**NOTE:** Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

## Track Installation x Stop Mounted Slide Track Arm


TS9315 PT  
TS9315 PTHO   
TS9356 PT  
TS9356 PTHO



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					
		2'-6" max.	3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.
TS9315	INTERIOR	•	• 	• 	• 	N/A	N/A
	EXTERIOR	•	•	•	•	N/A	N/A
TS9356	INTERIOR	N/A	N/A	N/A	•	•	•
	EXTERIOR	N/A	N/A	•	•	•	N/A

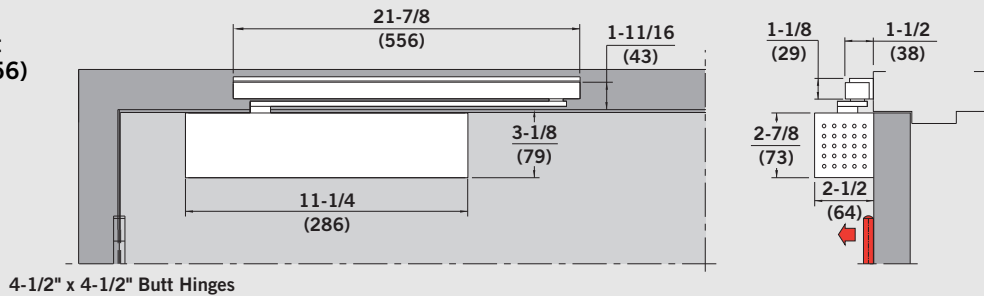
CLOSER	MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN	MINIMUM DOOR WIDTH
TS9315	110°	65°-110°	110°-70°	55°	105°	26"
TS9356	110°	65°-135°	110°-70°	55°	105°	26"

- - Recommended application.
-  - Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A - Not applicable/application not recommended




**NOTE:** Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

## Track Installation x Jamb Mounted Slide Track Arm


TS9315 ST   
TS9356 ST  
(Hold Open Not  
Available Size 56)



Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH				
		3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.
TS9315	INTERIOR				N/A	N/A
TS9356	INTERIOR	N/A	N/A	•	•	•

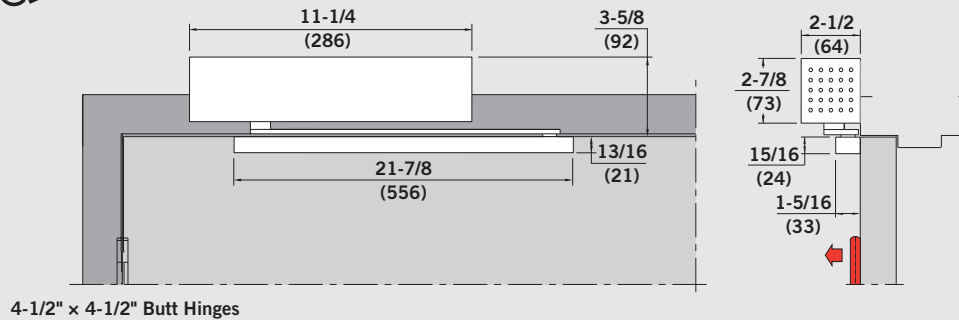
MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN	MINIMUM DOOR WIDTH
175°	65°-175°	120°-70°	85°	110°	36"

- - Recommended application.
-  - Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A - Not applicable/application not recommended

**NOTE:** Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

## Track Installation × Door Mounted Slide Track Arm

TS9315 STH



### Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH			MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN	MINIMUM DOOR WIDTH
		3'-0" max.	3'-6" max.	4'-0" max.						
TS9315	INTERIOR				175°	65°-175°	120°-70°	80°	105°	36"

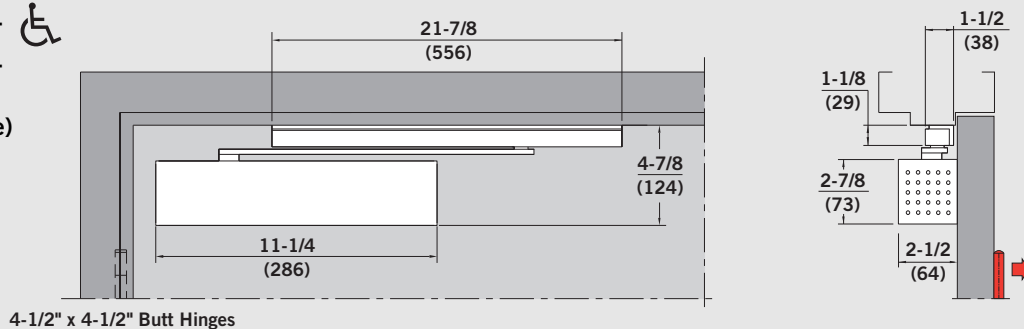
- – Recommended application.
- Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A – Not applicable/application not recommended

**NOTE:** Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

## Track Installation × Stop Mounted Slide Track Arm

TS9315 SPT

TS9356 SPT  
(Hold Open  
Not Available)



### Size Selection Chart

CLOSER	INTERIOR/ EXTERIOR	DOOR WIDTH					MAXIMUM OPENING	APPROX. BACKCHECK	APPROX. DELAYED ACTION	MINIMUM HOLD OPEN	MAXIMUM HOLD OPEN	MINIMUM DOOR WIDTH
		3'-0" max.	3'-6" max.	4'-0" max.	4'-6" max.	5'-0" max.						
TS9315	INTERIOR				N/A	N/A	135°	65°-135°	135°-70°	85°	110°	42"
	EXTERIOR	•	•	•	N/A	N/A						
TS9356	INTERIOR	N/A	N/A	•	•	•						
	EXTERIOR	N/A	•	•	•	N/A						

- – Recommended application.
- Opening force 5 lb or less on interior doors where door without closer attached is 1/4 lb (1.1 N) opening force or less.
- N/A – Not applicable/application not recommended

**NOTE:** Although DORMA TS9315 Series closers have adjustable spring power to compensate for site conditions, it can not be guaranteed that adequate closing force will be obtained while complying with barrier-free opening force restrictions.

## The TS93 PKT pocket door applications accommodate opening angles ranging from 90°–180° while providing concealed hardware for doors that must be flush with the wall.

### Technical Details (Pocket Doors):

- Available as TS9356 (size 5–6 +50% adjustment) closers for greater closing force for wider doors.
- Hardware is concealed when door is in pocket.
- Door surface is flush with corridor wall.
- No protruding edges.
- No dirt or debris buildup behind door.
- Open door fits completely into matched recessed wall pocket.
- Only 90° applications use pocket pivots.

### Certification:

The PKT applications are listed by U.L. under their continuing reinspection programs. DORMA PKT U.L. listings apply when used on doors that meet the specified door width and maximum weight.

### Pocket Door Application Disclaimer:

DORMA designs pocket door applications to be electronically held open under normal conditions. In the event of an alarm condition, the electric hold open will release—the door will close and latch under the power of the door closer. Meeting the fire life-safety code, **Closing and Latching the Door**, is the priority for DORMA's pocket door application and supersedes all accessibility requirements of A117.1. If low opening force is the priority for the application, an alternative door closer product should be considered in place of a pocket door application.

### Specification:

DORMA pocket door closers for doors required to be flush with the corridor wall. The pocket door closers offer applications for 90°–180° opening angles. All pocket door closers combined with a DORMA EM Series wall magnet create a held open flush door until power is interrupted or the door is manually shut. The recommended method for hanging a 90° pocket door is by the use of 3 (each) DORMA pocket pivots 75520 for non-rated doors or 3 (each) 75523 for 20 minute or 3-hour rated fire doors. For doors beyond 90° up to 180°, 4-1/2" x 4-1/2" ball bearing butt hinges are recommended.

**Warranty:** 25 years for projects within the United States. For full details, refer to the **Limited Warranty Policy** in the current DORMA price list.

### Finishes:

#### Standard Sprayed Finishes:

Aluminum: 689.  
 Bronze: 691 (Dull), 690 (Statuary), or 695 (Dark Duranodic).  
 Gold: 696.  
 Black: 693.

#### Optional DORMA Custom Color or Designer Color Finishes:

Contact Customer Service.

#### Optional Plated Finishes:

Brass: 605 (Bright).  
 Stainless: 630 (Satin).

Closer cover, arm and track channel are plated. Cover end caps and track end caps are sprayed complementary or contrasting color.



### EM Series Wall Magnets

See individual product brochure for specific information.

Features (Pocket Doors)	TS9356 PKT 90	TS9356 PKT 90/119 OP	TS9356 PKT 120/170	TS9356 PKT 180
Adjustable spring size	5–6 +50%	5–6 +50%	5–6 +50%	5–6 +50%
Pull side application	•	•	•	•
Controlled closing with two adjustment valves	90°–0° 7°–0°	119°–0° 7°–0°	170°–0° 7°–0°	180°–0° 7°–0°
Hydraulic backcheck	•	•	•	•
Hydraulic delayed action	•	•	•	•

- yes

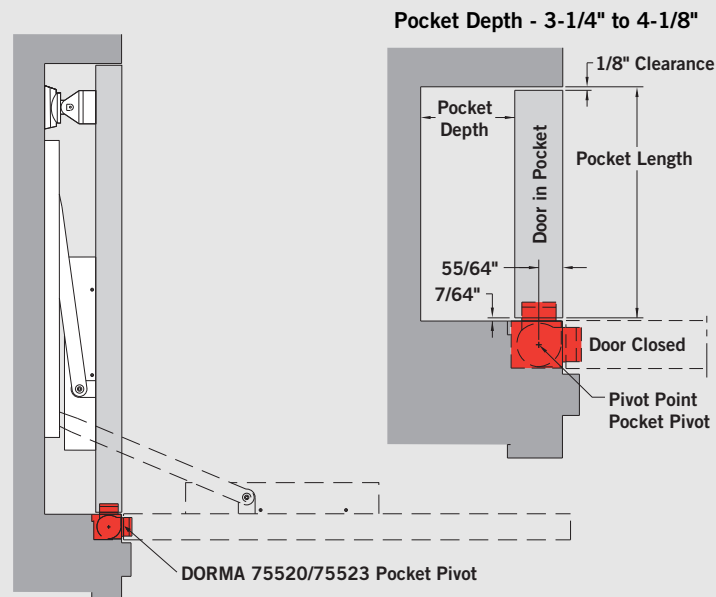
## 90° Pocket Installation

TS9356 PKT 90

### Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT
TS9356 PKT 90	3'-1" to 4'-6"	250 lb

The use of pocket pivots is recommended for hanging a 90° pocket door. Pocket pivots create optimum unobstructed space while creating a flush appearance for the door and frame.



**NOTE:** The DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, the EM-505 × ER-1.5 has a 4" (102 mm) projection, the EM-508 has a 4-1/16" (103 mm) projection, and the EM-509 × ER-1.5 extension has a 3-5/16" (84 mm) projection. For pocket depths not equalling these projections, a shim by others is required for the door mounted catch plate.

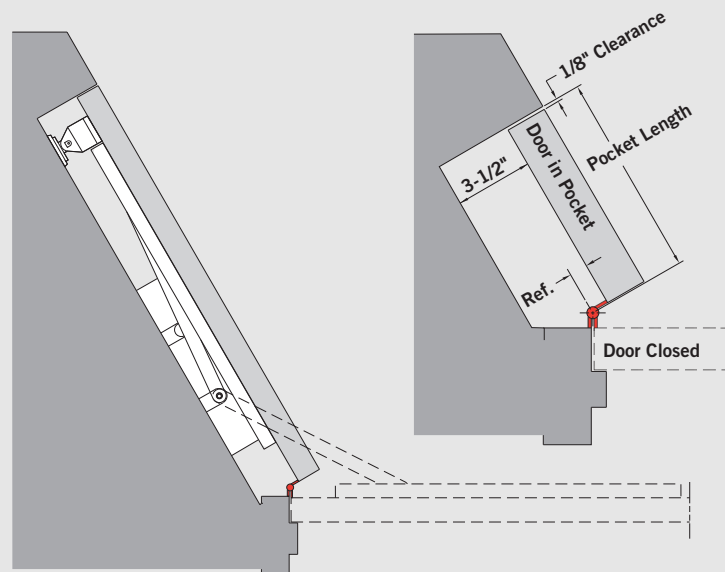
## 90° Through 119° Pocket Installation

TS9356 PKT 90/119 OP

### Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT
TS9356 PKT 90/119 OP	2'-8" to 4'	150 lb

The use of hinges is recommended for hanging the door. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges may be used. When using alternate methods, determine where the pivot point of the hinge or the pivot locates the door at the angle of opening when designing the pocket depth.



**NOTE:** The recommended DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, and the pocket must be designed accordingly. EM-504 ordered separately.

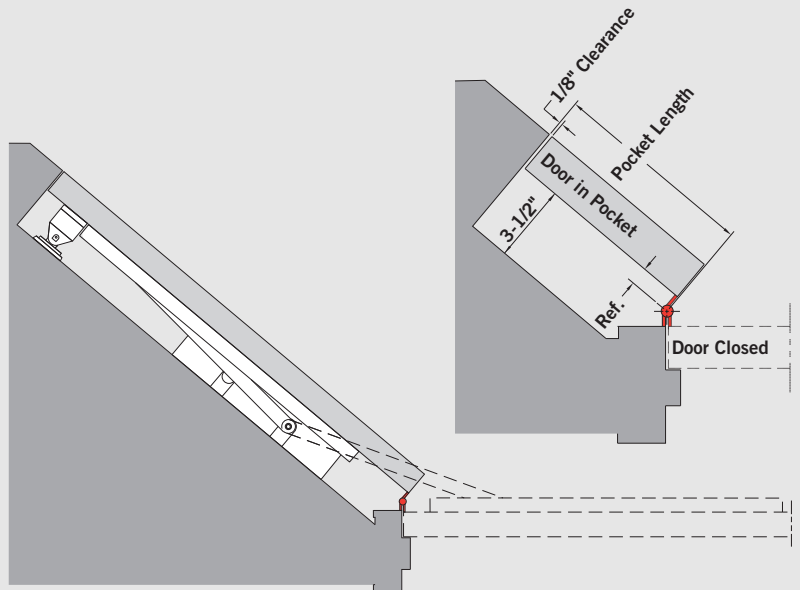
## 120° Through 170° Pocket Installation

### TS9356 PKT 120/170

#### Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT
TS9356 PKT 120/170	2'-8" to 4'	150 lb

The use of hinges is recommended for hanging the doors. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges may be used. When using alternate methods, determine where the pivot point of the hinge or the pivot locates the door at the angle of opening when designing the pocket depth.



**NOTE:** The recommended DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, and the pocket must be designed accordingly. EM-504 ordered separately.

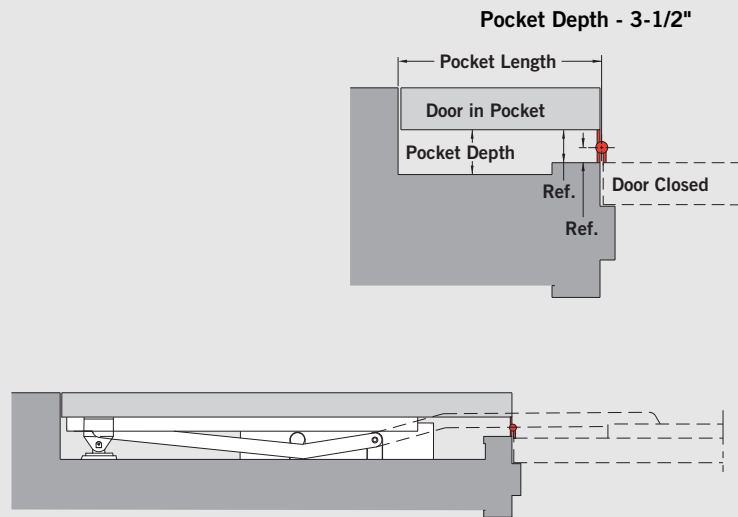
## 180° Pocket Installation

### TS9356 PKT 180

#### Size Selection Chart

CLOSER	DOOR WIDTH RANGE	MAXIMUM WEIGHT
TS9356 PKT 180	2'-8" to 4'	150 lb

The use of hinges is recommended for hanging the door. Hinges create optimum unobstructed space when the door is in the pocket. Alternatives, such as Offset Pivots, Swing Clear Hinges, and Continuous Hinges may be used. When using alternate methods, determine where the pivot point of the hinge or the pivot locates the door at the angle of opening when designing the pocket depth.



**NOTE:** The recommended DORMA EM-504 wall magnet has a 3-1/2" (89 mm) projection, and the pocket must be designed accordingly. EM-504 ordered separately.

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