



C R O W N

I N D U S T R I A L

**INDUSTRIAL
&
COMMERCIAL
DOOR HARDWARE**

**"BARN DOOR HARDWARE"
SLIDE DOOR HARDWARE
SWING DOOR HARDWARE
SLIDE-FOLD DOOR HARDWARE**

**213 MICHELLE COURT
SOUTH SAN FRANCISCO, CA 94080
PHONE (650) 952-5150 FAX (650) 873-1495
Website www.crown-industrial.com**

**WE CAN
HANDLE
ANYTHING.**

UP TO 128,000 POUND CAPACITY.

**PROVEN APPLICATIONS.
CUSTOM APPLICATIONS.**

Doors

Around the Corner Doors
Large Warehouse Doors
Vehicle Maintenance Shop Doors
Woven Wire Doors
Cooler Doors
Sliding Strip Doors
X-Ray Doors

Security

Prison Doors & Gates
Gates-Sliding & Swinging

Theater Staging

Acoustical Panels
Stage Reducing Panels
Stage Light Rigging

Industrial

Swinging Doors
Slinging Doors
Industrial Oven Doors
Cleaning Tanks
Paint Booth Doors

Display Panels

Art Galleries
Museums
Chalkboards & Tackboards
Showrooms
Boardrooms

Miscellaneous

Sliding Room Divider Panels
Athletic Dressing/Equipment
Drying Room Track
Weapon Target Carriers
Portable Pool Carriers

Animal-Control

Zoo Doors & Gates
Holding Area Doors
Horse Stall Doors

Truck

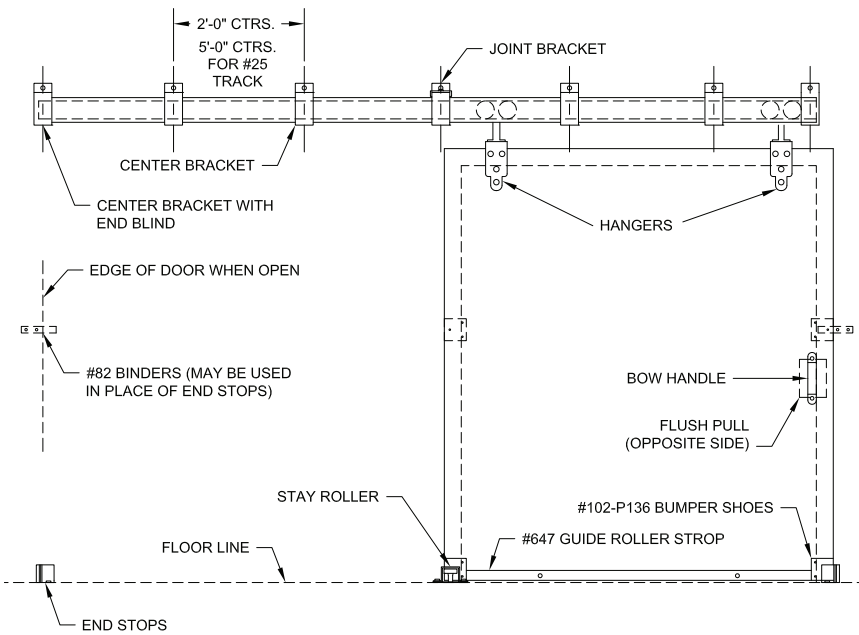
Display Truck Doors
Trailer Doors
Cargo Restraining

Crown Industrial offers a wide line of Industrial Strength Door Hardware . . . track, hangers, bottom rollers, I-beam trolleys, strap hinges, strap hinges and door accessories . . . For slide, swing, and slide-fold door applications with capacities up to 128,000 pounds.

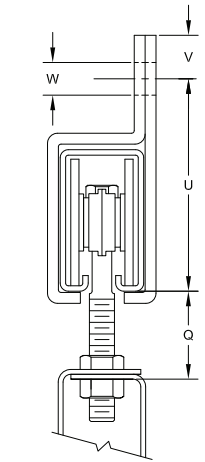
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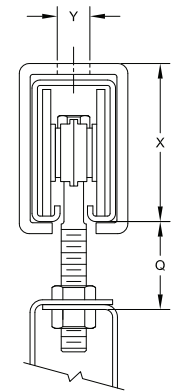
Hardware Sets FOR WOOD AND METAL DOORS



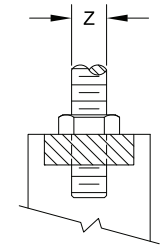
SINGLE DOOR MATERIAL LIST	
*	FT. TRACK
*	CENTER BRACKET
*	JOINT BRACKET
2	END BLINDS
1	PR. HANGERS
1	FLUSH PULL
1	BOW HANDLE
4	BUMPER SHOES
1	GUIDE ROLLER STRIP
2	END STOPS
1	STAY ROLLERS



**SIDEWALL BRKT.
w/ HANGER**



**OVERHEAD BRKT.
w/ HANGER**



TRUCK ONLY

Single Sliding Doors

These complete sets contain the following hardware:

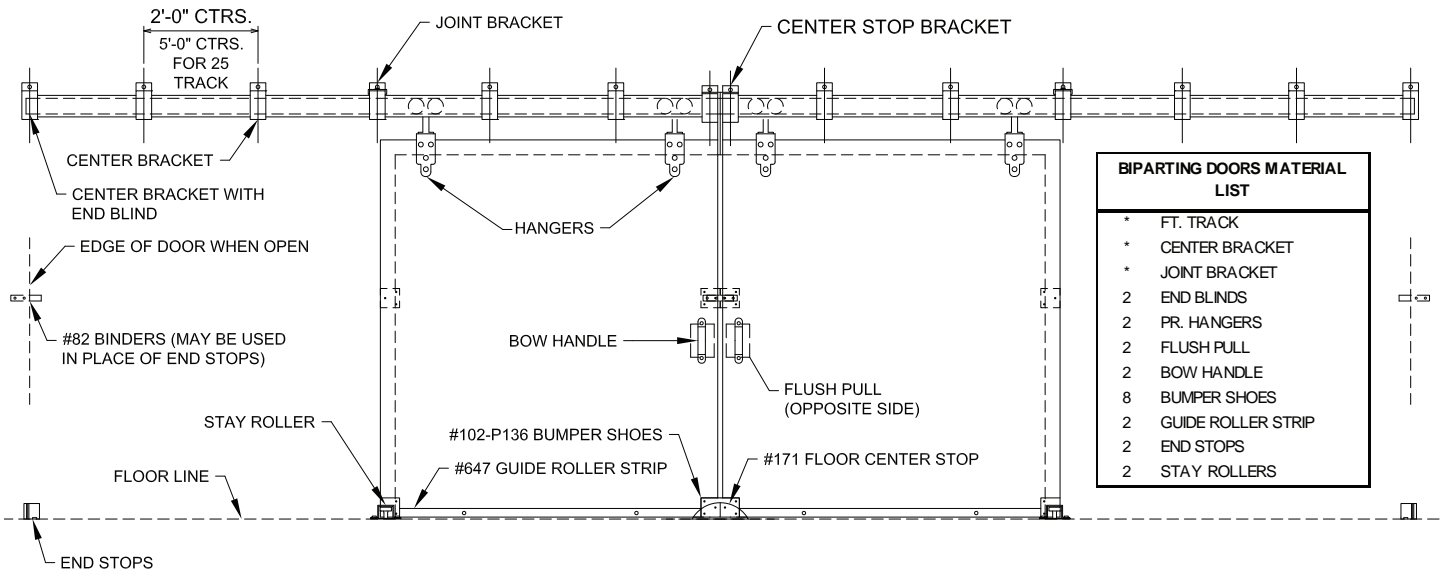
Quantity	Item
1	Pair Hangers.
*	Sufficient Lock-Joint track (approximately twice width of opening).
2	End Blinds.
*	Sufficient Center and Lock-Joint Track Brackets. (Spaced on approximately 2'0" centers). *†
1	Bow Handle.
1	Flush Pull.
2	Pair Bumper Shoes.
2	Floor End Stops.
1	Stay Roller.
*	Sufficient Guide Roller Strip.
*	Fasteners **

Notes:

- * Bolt hole spacing for center stop bracket shown in chart on page 4.
- † For 25 brackets, maximum center spacing is 5'0" for 2,500 lb. capacity.
- † For 25 brackets, maximum center spacing is 2'0" for 5,000 lb. capacity.
- ** Hardware sets include proper fasteners to attach the hardware to the door. Fasteners to attach the hardware to the wall and floor are excluded.

See Page 4 for Dimensions and Ordering Instructions.

Hardware Sets FOR WOOD AND METAL DOORS



Bi-Parting Sliding Doors

These complete sets contain the following hardware:

Quantity Item

- 2 Pair Hangers.
- * Sufficient Lock-Joint track (approximately twice width of opening).
- 1 Center Stop Bracket. *
- 2 End Blinds.
- * Sufficient Center and Lock-Joint Track Brackets. (Spaced on approximately 2'0" centers). *†
- 2 Bow Handle.
- 2 Flush Pull.
- 4 Pair Bumper Shoes.
- 2 Floor End Stops.
- 2 Stay Roller.
- * Sufficient Guide Roller Strip.
- * Fasteners **

Notes:

- * Bolt hole spacing for center stop bracket shown in chart on page 4.
- † For 25 brackets, maximum center spacing is 5'0" for 2,500 lb. capacity.
- † For 25 brackets, maximum center spacing is 2'0" for 5,000 lb. capacity.
- ** Hardware sets include proper fasteners to attach the hardware to the door. Fasteners to attach the hardware to the wall and floor are excluded.

See Page 4 for Dimensions and Ordering Instructions.

Ordering Instructions for Hardware Sets

ORDERING INSTRUCTIONS:

To order the proper hardware sets, the following data is required:

Door Operation (Manual or Power)
 Door Application (Single or Biparting)
 Door Construction (Wood or Metal)
 Door Weight (400 lbs. Up to 5,000 lbs.)
 Door Thickness (1-1/2" up to 3-3/4")
 Door Size (Width x Height)
 Opening Size (Width x Height)

Notes:

FINISH: Painted finish on standard sets.

Stainless steel available. (304 great standard, 316L grade optional)

BRACKETS: Standard hardware sets include sidewall brackets. Overhead brackets can be furnished at additional charge.

† For #25 brackets, maximum center spacing is 5'-0" for 2,500 lb. capacity.

† For #25 brackets, maximum center spacing is 2'-0" for 5,000 lb. capacity.

Use the Chart Below along with the illustrations on page 2 and 3.

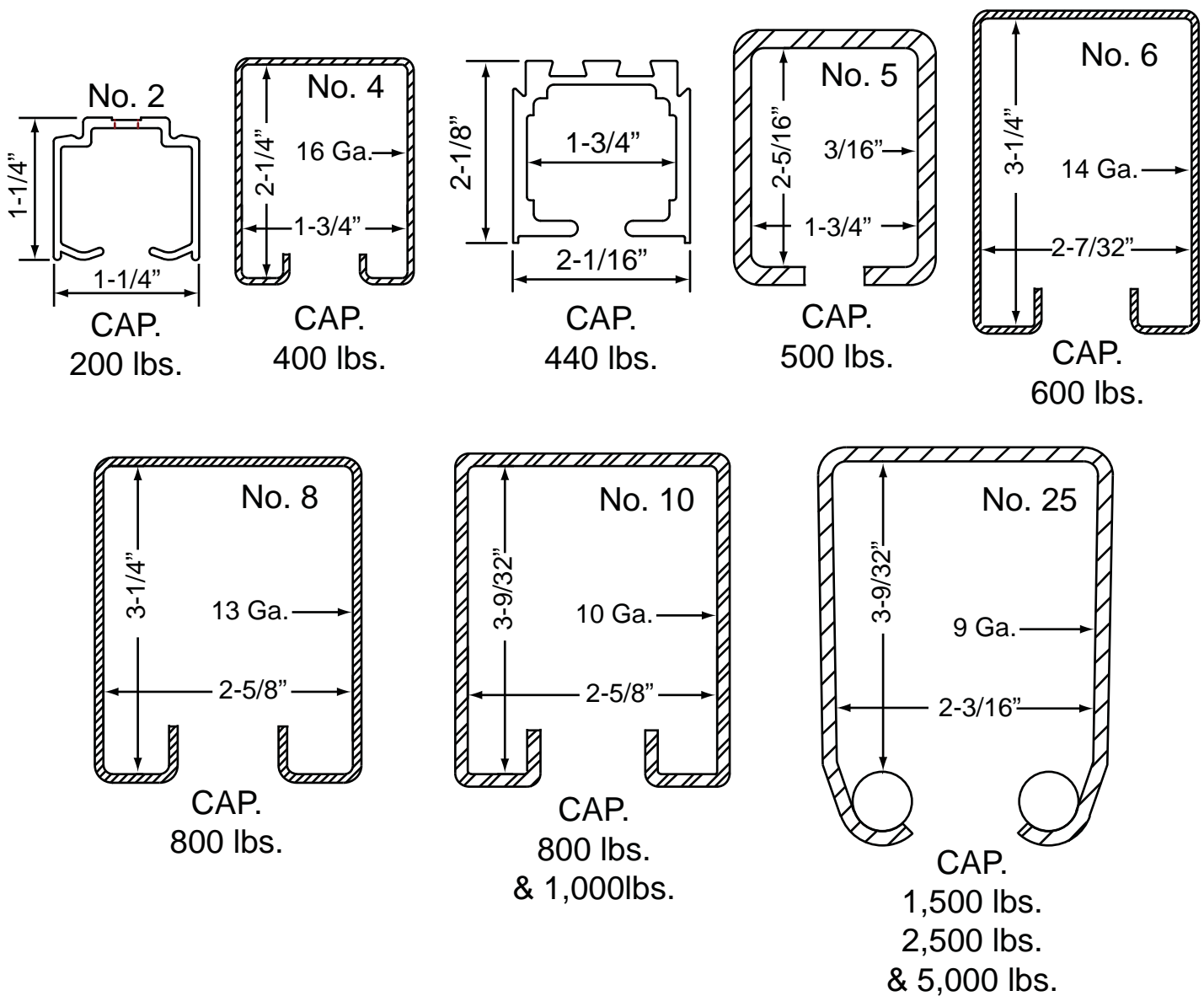
* Example 800 lb., single door, wood door, 2-1/2" thick, sidewall mount, electrically operated x (Opening Width)
 Hardware Set No. = 101B3SE x (Opening Width)

Door Weight in Lbs.	Track No.	Digit 1		Digit 2		Digit 3			Digit 4				Digit 5		Digit 6		Digit 7		DIMENSIONS								
		Hardware Set		Trolley Bearings			Door Thickness				Truck Only	Top Plate Assembly	Apron Assembly	Sidewall Brackets	Overhead Brackets	Manual Operation	Electric Operation	Trolleys		Sidewall Support Brackets			Overhead Brackets			Brkt. Cntrs.	
		Single Door	Bi-Parting Door	Polymer	Roller	Ball	3/4" to 1-3/4"	1-1/2" to 2-1/4"	1-3/4" to 2-1/4"	2-1/4" to 3-3/4"								"Q"	"U"	"V"	"W"	"X"	"Y"	"Z"	"P"		
																											Max.
200	2	1	2	P				0				P	S	O	M		3/4"	1-1/8"	1-7/8"	5/16"	1/8"	1-5/16"	5mm	8mm	2'-0"		
400	4	1	2	P	R			1				T	P	A	S	O	M		1-1/4"	2-1/2"	3-3/4"	13/16"	3/8"	3-3/16"	3/8"	1/2"-13NC	2'-0"
440	4.4	1	2	P				0				P	S	O	M		15/16"	1-3/16"	2-3/4"	9/16"	5/16"	2-1/8"	5/16"	10mm	2'-0"		
500	5	1	2			B		2				T	P	A	S	O	M		3-11/16"	4-3/16"	5-7/8"	7/8"	1/2"	3-3/4"	1/2"	3/4"-10NC	2'-0"
600	6	1	2		R	B		2	3			T	P	A	S	O	M		1-1/8"	2-3/4"	5-1/4"	7/8"	1/2"	4-3/8"	1/2"	3/4"-10NC	2'-0"
800	8	1	2		R	B		2	3			T	P	A	S	O	M		1-1/8"	2-3/4"	6-3/8"	5/8"	1/2"	4-1/2"	1/2"	3/4"-10NC	2'-0"
800	10	1	2			B		2	3			T	P	A	S	O	M	E	1-3/8"	2-3/8"	6-1/8"	1"	5/8"	4-3/4"	5/8"	3/4"-10NC	2'-0"
1000	10	1	2			B		2	3			T	P	A	S	O	M		1-3/8"	2-3/8"	6-1/8"	1"	5/8"	4-3/4"	5/8"	3/4"-10NC	2'-0"
1500	25	1	2			B		2	3			T	P	A	S	O	M	E	1-3/8"	2-3/8"	7"	1"	3/4"	5-3/4"	5/8"	3/4"-10NC	5'-0"
2500	25	1	2			B			3			T		A	S	O	M	E	4-1/2"	2-3/4"	7"	1"	3/4"	5-3/4"	3/4"	7/8"-9 NC	5'-0"
5000	25	1	2			B						T			S	O	M	E	6-1/4"	10-1/8"	7"	1"	3/4"	5-3/4"	3/4"	1"-8 NC	2'-0"

Box Track Type

To Select Proper Size Track See Truck and Hanger Selection Charts Pages 4, 6 and 7.

*** NOTE: #5, and #25 track are used for special applications including curves and switches. See page 20 and 21 for more information and consult with our engineers.**



Box Track Data

*Capacity For Doors Weighing --lbs.	Track No.	Ga.	Inside Dimensions In Inches	Available Lengths Ft.	Powder Coat Paint	Galvanized Available	Aluminum Available	Stainless Steel Available	Weight Per Foot --lbs.
"Lock-Joint"® Style Track - Manually Operated Doors									
200	2	(al)	1-3/16" Wide 1-1/8" High	6', 8', 10' & 12'		x	x	x	1/2
400	4	16	1-3/4" Wide 2-1/4" High	6', 8', 10' & 12'	x	x		x	1-3/4
500	5	7	1-3/4" Wide 2-5/16" High	10'	x	x		x	5
600	6	14	2-7/32" Wide 3-1/4" High	6', 8', & 10'	x	x		x	2-3/4
800	8	13	2-5/8" Wide 3-1/4" High	6', 8', & 10'	x				4
1000	10	10	2-5/8" Wide 3-1/4" High	6', 8', & 10'	x	x			5-3/4
**1500	25	9	2-13/16" Wide 3-9/32" High	6', 8', & 10'	x	x		x	8
†2500	25	9	2-13/16" Wide 3-9/32" High	6', 8', & 10'	x	x		x	8
††5000	25	9	2-13/16" Wide 3-9/32" High	6', 8', & 10'	x	x		x	8
"Lock-Joint"® Style Track - Power Operated Doors									
800	10	10	2-5/8" Wide 3-1/4" High	6', 8', & 10'	x	x			5-3/4
**1500	25	9	2-13/16" Wide 3-9/32" High	6', 8', & 10'	x	x		x	8
†2500	25	9	2-13/16" Wide 3-9/32" High	6', 8', & 10'	x	x		x	8
††5000	25	9	2-13/16" Wide 3-9/32" High	6', 8', & 10'	x	x		x	8

*With pair of hangers per door.

**1,500 lb. Capacity when #25 track is used with #25-1BLE hanger.

†2,500 lb. Capacity when #25 track is used with #25-1BSE hanger.

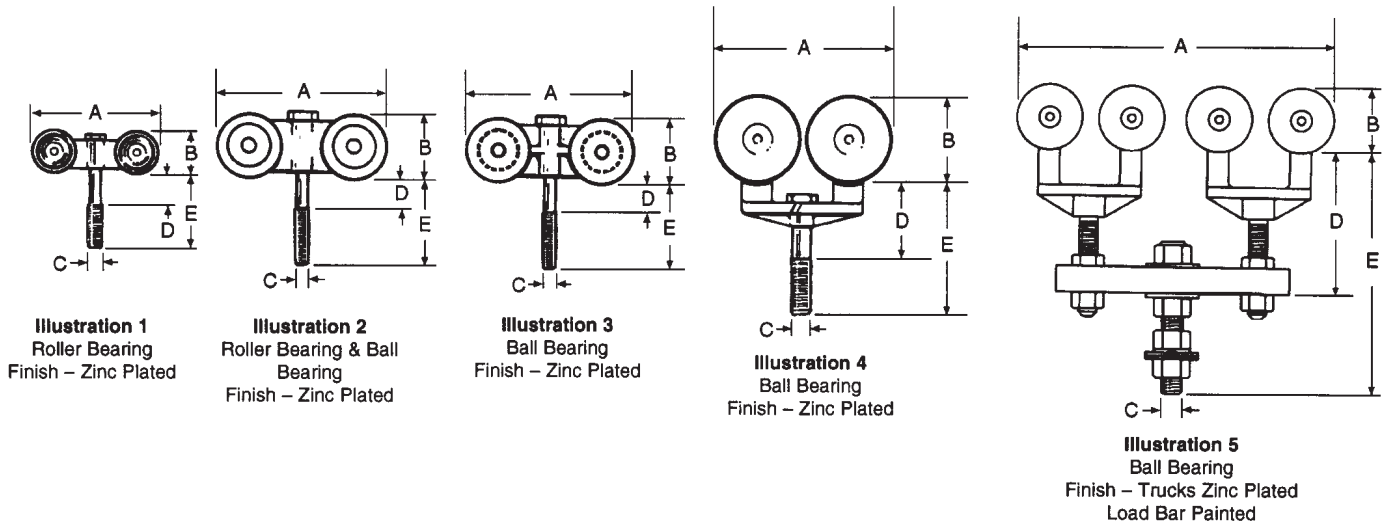
††5,000 lb. Capacity when #25 track is used with #25-TBSE hanger.

***Note: #5 and #25 track are used for special applications including curves & switches. See pages 20 and 21 for more information and consult with our engineers.**

Door Hanger Data

*Capacity for Doors Weighing -Lbs.	Door Thickness	Hanger Number	Track Number	Type Aprons	Type Bearing	Page Number
"LOCK-JOINT" STYLE TRACK - MANUALLY OPERATED						
200	3/4" to 1-3/4"	2-1P	2	n/a	Polymer	9
400	1-1/2" to 2-1/4"	4Z2P	4	Zinc Plate	Polymer	9
400	1-1/2" to 2-1/4"	4Z2R	4	Zinc Plate	Roller	9
400	up to 1-3/4"	4Z-F	4	Zinc Plate	Ball	10
500	1-3/4" to 2-1/4"	5P-1975	5	Painted	Ball	20
600	1-3/4" to 2-1/4"	6P2R	6	Painted	Roller	10
600	1-3/4" to 2-1/4"	6Z3R	6	Zinc Plate	Roller	10
600	2-1/4" to 3"	6P4R	6	Painted	Roller	10
600	2-1/4" to 3"	6Z5R	6	Zinc Plate	Roller	10
600	1-3/4" to 2-1/4"	6P2B	6	Painted	Ball	10
600	1-3/4" to 2-1/4"	6Z3B	6	Zinc Plate	Ball	10
600	2-1/4" to 3"	6P4B	6	Painted	Ball	10
600	2-1/4" to 3"	6Z5B	6	Zinc Plate	Ball	10
800	1-3/4" to 2-1/4"	8P2R	8	Painted	Roller	11
800	2-1/4" to 3"	8P4R	8	Painted	Roller	11
800	1-3/4" to 2-1/4"	8P2B	8	Painted	Ball	11
800	2-1/4" to 3"	8P4B	8	Painted	Ball	11
1000	1-3/4" to 2-1/4"	8P2R	10	Painted	Roller	11
1000	1-3/4" to 2-1/4"	8Z3R	10	Zinc Plate	Roller	11
1000	2-1/4" to 3"	8P4R	10	Painted	Roller	11
1000	2-1/4" to 3"	8Z5R	10	Zinc Plate	Roller	11
1000	1-3/4" to 2-1/4"	8P2B	10	Painted	Ball	11
1000	1-3/4" to 2-1/4"	8Z3B	10	Zinc Plate	Ball	11
1000	2-1/4" to 3"	8P4B	10	Painted	Ball	11
1000	2-1/4" to 3"	8Z5B	10	Zinc Plate	Ball	11
1500	1-3/4" to 2-1/2"	25P2BLE	25	Painted	Ball	12
1500	2-1/4" to 3"	25P4BLE	25	Painted	Ball	12
2500	2-1/4" to 2-3/4"	25P2BSE	25	Painted	Ball	12
"LOCK-JOINT" STYLE TRACK - POWER OPERATED						
800	1-3/4" to 2-1/4"	10P2BE	10	Painted	Ball	12
800	2-1/4" to 3"	10P4BE	10	Painted	Ball	12
1500	1-3/4" to 2-1/2"	25P2BLE	25	Painted	Ball	12
1500	2-1/4" to 3"	25P4BLE	25	Painted	Ball	12
2500	2-1/4" to 3-3/4"	25P2BSE	25	Painted	Ball	12
*With Pair of Hangers per Door						
*NOTE: #5 and #25 track are used for special applications including curves and switches. See page 20 & 21 for more information and consult with our engineers.						

Trucks (less aprons)



TRUCKS FOR MANUALLY OPERATED DOORS

For Door Weight (lbs.)	Cat. No.	For Track No.	Ills. No.	Dimensions					Hanger Page #	Weight Per Pair
				A	B	C	D	E		
200	2-1P	2	1**	1-11/16"	7/8"	8mm	0	1-1/4"	9	5 oz.
400	4-1P	4	1***†	4-3/4"	2-1/8"	1/2"-13	11/16"	2-7/8"	9	2 lb.
400	4-1R	4	1†	4-3/4"	2-1/8"	1/2"-13	5/8"	2-13/16"	9	2-1/2 lb.
500	5B	5	n/a	2-1/8"	2-1/8"	5/8"-11	1-5/8"	4-5/8"	20	3 lb.
600	6-1R	6	2	7-1/2"	3"	3/4"-10	1/2"	3-5/8"	10	7-1/4 lb.
600	6-1B	6	2	7-1/2"	3"	3/4"-10	1/2"	3-5/8"	10	7-1/4 lb.
800	8-1R	8	2	7-1/2"	3"	3/4"-10	1/2"	3-5/8"	11	8 lb.
800	8-1B	8	2	7-1/2"	3"	3/4"-10	1/2"	3-5/8"	11	8 lb.
1000	8-1R	10	2	7-1/2"	3"	3/4"-10	1/2"	3-5/8"	11	8 lb.
1000	8-1B	10	2	7-1/2"	3"	3/4"-10	1/2"	3-5/8"	11	8 lb.

TRUCKS FOR POWERED OR MANUALLY OPERATED DOORS

For Door Weight (lbs.)	Cat. No.	For Track No.	Ills. No.	Dimensions					Hanger Page #	Weight Per Pair
				A	B	C	D	E		
800	10-1BE	10	3	7-1/4"	2-3/4"	3/4"-10	3/4"	3-7/8"	12	5 oz.
1500	25-1BLE	25	3	7-1/2"	3"	3/4"-10	1-1/16"	4-1/4"	12, 21	2 lb.
2500	25-1BSE	25	4	7"	3"	7/8"-9	3-1/2"	8"	12, 21	2-1/2 lb.
5000	25-TBSE	25	5	15"	3"	1"-8	7"	11-1/4"	12, 21	3 lb.

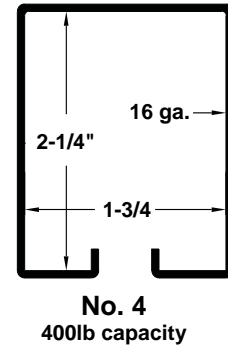
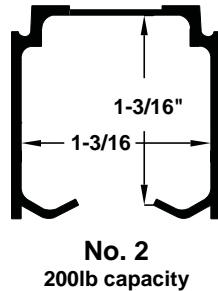
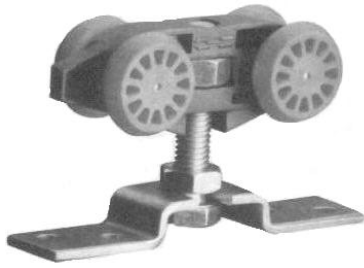
* With Pair of Trucks Per Door.

**See Illustration 1, polymer bearings only

† See Page 9 for wood door top plate option.

*Note: #5, and #25 track can be used for special applications including curves and switches. See page 20 and 21 for more information and consult with our engineers.

No. 2 & 4 Hangers (trucks with & without aprons)



No. 2P HANGER

Use: For manually operated light-weight sliding doors weighing up to **200 lbs.**

One Style: 2-1PTP

Head Clearance: Distance top of door to bottom of track: Minimum 3/4", Maximum 1-1/8".

Construction: 7/8" diameter polymer wheels. *Polymer bearings.* Lateral and vertical adjustment. No apron, top plate as shown in picture above.

Finish: Polymer

Packed: Boxed, with screws, nylon T-guide, stops, and top plate.

Weight: 3/4 lb. per pair.

Option: Sidewall track brackets, 2Ax1.

No. 4P HANGER

Use: For manually operated sliding doors 1-1/2" to 2-1/4" thick weighing up to **400 lbs.**

One Style: 4Z2P

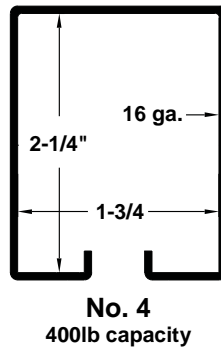
Head Clearance: Distance top of door to bottom of track: minimum 1-1/4", maximum 2-1/2". Bottom of track to center of hole in sidewall bracket: 3-3/4".

Construction: 2-1/8" diameter polymer wheels. *Polymer bearings.* Lateral and vertical adjustment. Apron: 1/8" thick, 3-1/2" wide, and 6" long.

Finish: Zinc plated trucks and aprons.

Packed: Boxed, with bolts.

Weight: 5 lbs. per pair.



No. 4R HANGER

Use: For manually operated sliding doors 1-1/2" to 2-1/4" thick weighing up to **400 lbs.**

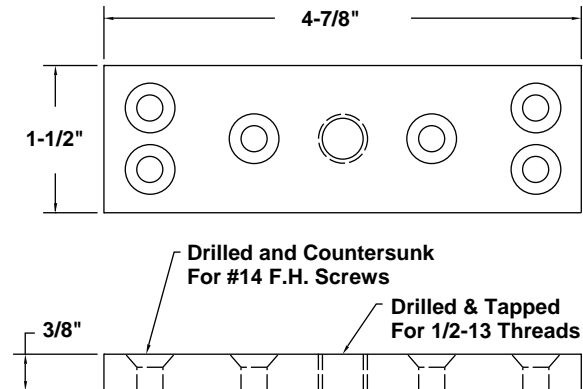
One Style: 4Z2R

Head Clearance: Distance top of door to bottom of track: Minimum 1-1/4", Maximum 2-1/2". Bottom of track to center of hole in sidewall bracket: 3-3/4".

Construction: 2-1/8" diameter steel wheels. *Caged roller bearings.* Lateral and vertical adjustment. Apron: 1/8" thick, 3-1/2" wide, and 6" long.

Finish: Zinc plated trucks and aprons.

Packed: Boxes, with bolts.



No. 4 PTP Door Top Plate For Straight Sliding Doors.

When an application can not use the apron attachment, this top reinforcing plate is used.

Door thickness minimum **1-3/4"**. Custom sizes available.

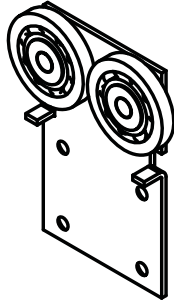
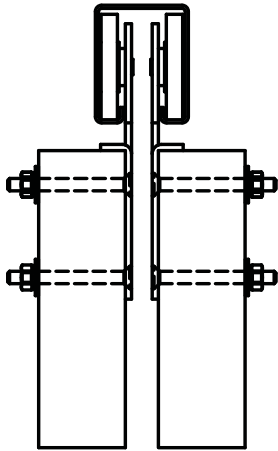
Construction: Steel Plate.

Finish: Painted.

Weight: 2 lbs.

No. #135 Top Plate available for all the box track products.

No. 4 Hangers (cont.)



No. 4Z-F HANGER

Use: For manually operated sliding doors mounted in parallel (bi-passing) in a **single run of #4 box track**.

For doors no thicker than 1-3/4", weighing up to **150 lbs ea.**

One Style: 4Z-F

Head Clearance: Distance top of door to bottom of track: 9/16".

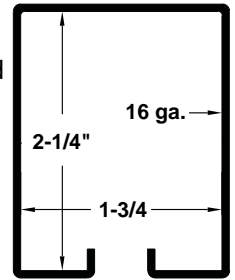
Bottom of track to center of hole in sidewall bracket: 3-3/4".

Construction: 2-1/8" diameter steel wheels. *Ball bearings.* Apron: 1/8" thick, 3-3/8" wide, and 3" tall.

Finish: Zinc plated apron.

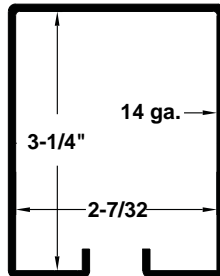
Packed: Boxed, with bolts.

Weight: 3-1/2 lbs. per pair.



No. 4
400lb capacity

No. 6 Hangers (trucks with aprons)



No. 6
600lb capacity



No. 6R HANGER

Use: For manually operated sliding doors 1-3/4" to 3" thick weighing up to **600 lbs.**

Two Sizes: 6P2R for doors 1-3/4" to 2-1/4" (Painted Aprons); 6Z3R for doors 1-3/4" to 2-1/4" (Zinc Aprons) 6P4R doors 2-1/4" to 3" (Painted Aprons); 6Z5R for doors 2-1/4" to 3" (Zinc Aprons).

Head Clearance: Distance top of door to bottom of track; minimum 1-1/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 6-1/4".

Construction: 3" diameter steel wheels. *Caged roller bearings.* Lateral and vertical adjustment. Apron: 9/64" thick 4" wide 7-1/2" long.

Finish: Zinc plated trucks. Aprons painted or zinc.

Packed: Boxed, with bolts.

Weight: 12-1/4 lbs. per pair.

No. 6B HANGER

Use: For manually operated sliding doors 1-3/4" to 3" thick weighing up to **600 lbs.**

Two Sizes: 6P2B for doors 1-3/4" to 2-1/4" (Painted Aprons); 6Z3B for doors 1-3/4" to 2-1/4" (Zinc Aprons) 6P4B doors 2-1/4" to 3" (Painted Aprons); 6Z5B for doors 2-1/4" to 3" (Zinc Aprons).

Head Clearance: Distance top of door to bottom of track; minimum 1-1/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 6-1/4".

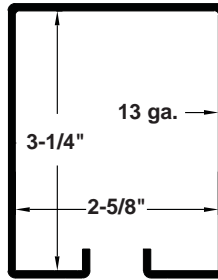
Construction: 3" diameter steel wheels. *Ball bearings.* Lateral and vertical adjustment. Apron: 9/64" thick 4" wide 7-1/2" long.

Finish: Zinc plated trucks. Aprons painted or zinc.

Packed: Boxed, with bolts.

Weight: 12-1/4 lbs. per pair.

No. 8 Hangers (trucks with aprons)



No. 8
800lb capacity

No. 8R HANGER USED WITH #8 TRACK

Use: For manually operated sliding doors 1-3/4" to 3" thick weighing up to **800 lbs.**

Two Sizes: 8P2R for doors 1-3/4" to 2-1/4"; 8P4R for doors 2-1/4" to 3".

Head Clearance: Distance top of door to bottom of track; minimum 1-1/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 6-3/8".

Construction: 3" diameter steel wheels. Caged roller bearings. Lateral and vertical adjustment. Apron: 9/64" thick 4" wide 7-1/2" long.

Finish: Zinc plated trucks. Aprons painted.

Packed: Boxed, with bolts.

Weight: 12-3/4 lbs. per pair.

No. 8B HANGER USED WITH #8 TRACK

Use: For manually operated sliding doors 1-3/4" to 3" thick weighing up to **800 lbs.**

Two Sizes: 8P2B for doors 1-3/4" to 2-1/4"; 8P4B for doors 2-1/4" to 3".

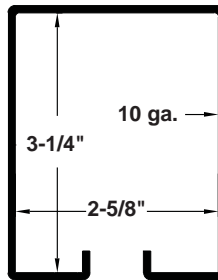
Head Clearance: Distance top of door to bottom of track; minimum 1-1/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 6-3/8".

Construction: 3" diameter steel wheels. Ball bearings. Lateral and vertical adjustment. Apron: 9/64" thick 4" wide 7-1/2" long.

Finish: Zinc plated trucks. Aprons painted.

Packed: Boxed, with bolts.

Weight: 12-3/4 lbs. per pair.



No. 10
1000lb capacity

No. 8R HANGER USED WITH #10 TRACK

Use: For manually operated sliding doors 1-3/4" to 3" thick weighing up to **1000 lbs.**

Two Sizes: 8P2R for doors 1-3/4" to 2-1/4" (Painted Aprons); 8Z3R for doors 1-3/4" to 2-1/4" (Zinc Aprons); 8P4R for doors 2-1/4" to 3" (Painted Aprons); 8Z5R for doors 2-1/4" to 3" (Zinc Aprons).

Head Clearance: Distance top of door to bottom of track; minimum 1-1/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 6-1/8".

Construction: 3" diameter steel wheels. Caged roller bearings. Lateral and vertical adjustment. Apron: 9/64" thick 4" wide 7-1/2" long.

Finish: Zinc plated trucks. Aprons painted or zinc.

Packed: Boxed, with bolts.

Weight: 12-3/4 lbs. per pair.

No. 8B HANGER USED WITH #10 TRACK

Use: For manually operated sliding doors 1-3/4" to 3" thick weighing up to **1000 lbs.**

Two Sizes: 8P2B for doors 1-3/4" to 2-1/4" (Painted Aprons); 8Z3B for doors 1-3/4" to 2-1/4" (Zinc Aprons); 8P4B for doors 2-1/4" to 3" (Painted Aprons); 8Z5B for doors 2-1/4" to 3" (Zinc Aprons).

Head Clearance: Distance top of door to bottom of track; minimum 1-1/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 6-1/8".

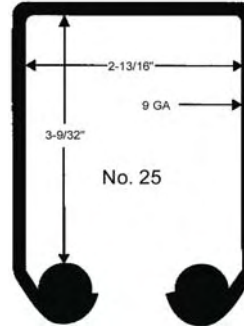
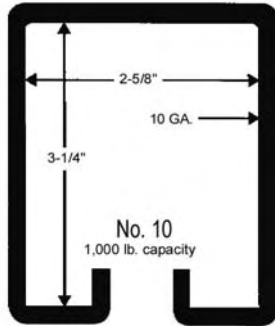
Construction: 3" diameter steel wheels. Ball bearings. Lateral and vertical adjustment. Apron: 9/64" thick 4" wide 7-1/2" long.

Finish: Zinc plated trucks. Aprons painted or zinc.

Packed: Boxed, with bolts.

Weight: 12-3/4 lbs. per pair.

No. 10 & 25 Hangers (trucks with aprons)



NO. 10BE HANGER

Use: For power operated sliding doors 1-3/4" to 3" thick weighing up to **800 lbs.** using #10 track.

Sizes: **10P2BE** for doors 1-3/4" to 2-1/4" (Painted Aprons)

10Z3BE for doors 1-3/4" to 2-1/4" (Zinc Aprons).

10P4BE for doors 2-1/4" to 3" (Painted Aprons).

10Z5BE for doors 2-1/4" to 3" (Zinc Aprons).

Head Clearance: Top of door to bottom of track; minimum 1-3/8", maximum 3-1/8". Bottom of track to center of hole in sidewall bracket; 6-1/8".

Construction: 2-3/4" diameter machined steel wheels. Ball bearings. Lateral and vertical adjustment.

Apron: 4" wide x 7-1/2" long x 9/64" thick

Finish: Zinc plated trucks. Aprons painted or zinc plated.

Packed: Boxed, with bolts.

Weight: 16-1/2 lbs. per pair.

NO. 25BLE HANGER

Use: For manually operated or power operated sliding doors 1-3/4" to 3" thick weighing up to **1,500 lbs.**

Sizes: **25P2BLE** for doors 1-3/4" to 2-1/4" (Painted Aprons).

25P4BLE for doors 2-1/4" to 3" (Painted Aprons).

Head Clearance: Top of door to bottom of track; minimum 1-3/8", maximum 2-3/4". Bottom of track to center of hole in sidewall bracket; 7".

Construction: 3" diameter machined steel wheels.

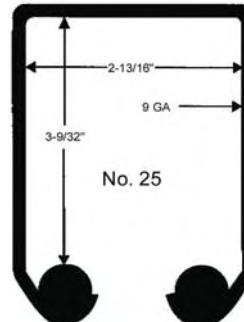
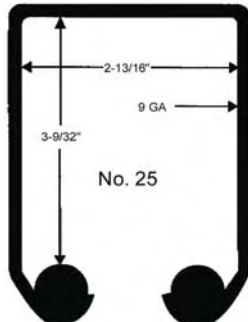
Frame malleable iron, ball bearings, lateral and vertical adjustment.

Apron: 4" wide x 7-1/2" long x 9/64" thick

Finish: Zinc plated trucks. Aprons painted.

Packed: Boxed, with bolts.

Weight: 18-3/4 lbs. per pair.



NO. 25P2BSE HANGER

Use: For manually operated or power operated sliding doors 2-1/2" to 3-3/4" thick weighing up to **2,500 lbs.**

Head Clearance: Top of door to bottom of track; minimum 4-1/2", maximum 6-1/2". Bottom of track to center of hole in sidewall bracket; 7".

Construction: 3" diameter machined steel wheels. Frame malleable iron, ball bearings, lateral and vertical adjustment.

Apron: 5" wide x 11-3/4" long x 1/4" thick

Finish: Zinc plated trucks. Aprons painted.

Packed: Boxed, with bolts.

Weight: 39 lbs. per pair.

NO. 25-TBSE TRUCK

Use: For manually operated or power operated sliding doors weighing up to **5,000 lbs.**

Head Clearance: Top of door to bottom of track; minimum 6-1/4", maximum 10-1/4". Bottom of track to center of hole in sidewall bracket; 7".

Construction: 3" diameter machined steel wheels. Frame malleable iron, ball bearings, lateral and vertical adjustment. Load bar: 1-1/4"x3"x11" long steel.

Pendant bolt: 1" diameter steel.

Finish: Zinc plated trucks. Painted load bar.

Packed: Boxed.

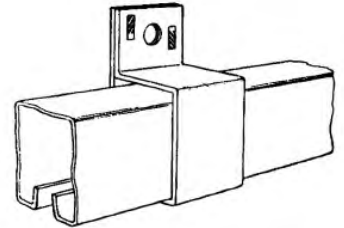
Weight: 70" lbs. per pair.

Box Type Track and Brackets Installation and Functions

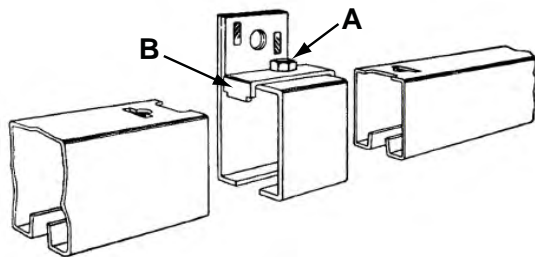
The unique design of Track and Brackets prevents the horizontal creep of tracks while binding them together tightly against the bottom of the bracket, achieving a smooth tight joint for the hanger runway.

CENTER BRACKET

Slide track through center brackets. Provides support of track and track lips at required support intervals.



LOCK JOINT BRACKET

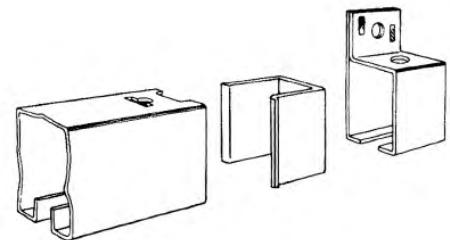


Loosen nut "A", raise clamp "B", slide tracks into bracket, drop bent ends of clamp "B" into holes in tops of track and tighten nut "A". Provides the unique feature between track sections.

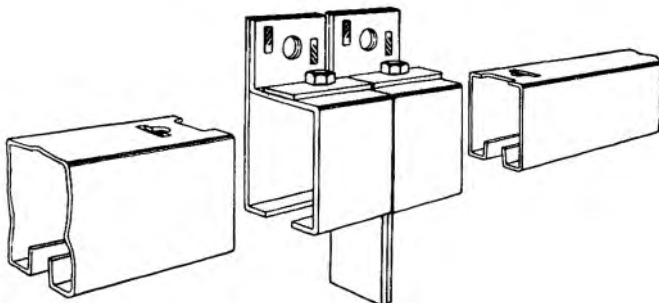
NOTE: #25 Track joints must be welded on all manual applications over 2500 lbs. and for all powered applications. See page 19 for welding kit information.

END BLIND

Push end blind into center sidewall/overhead track bracket. Slide the assembled bracket and end blind onto the end of track. The end blind acts as a stop to prevent creep on one-piece track applications as well as closes off the end of the track to birds, etc.



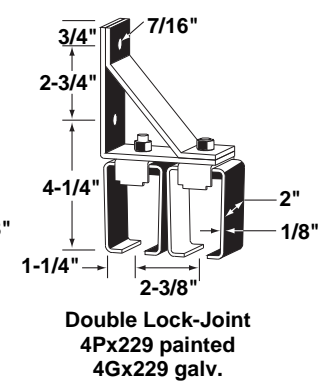
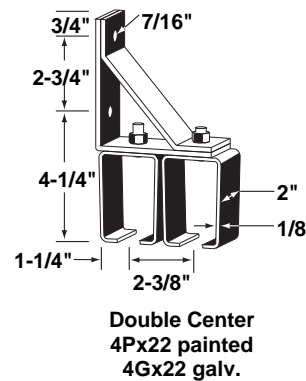
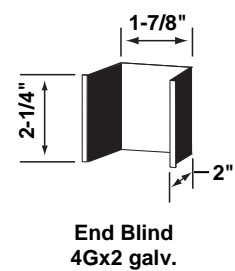
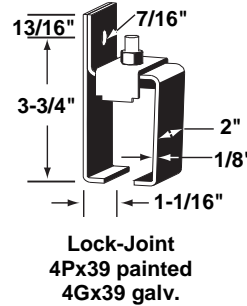
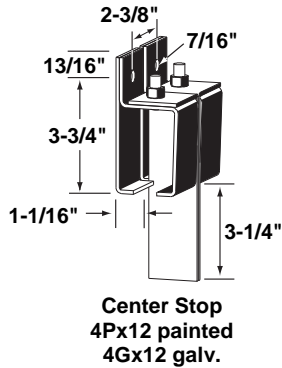
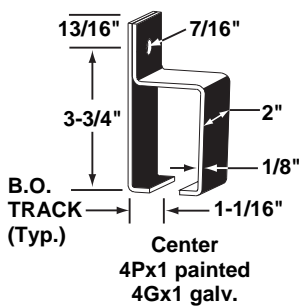
CENTER STOP BRACKETS



Slide each end of each track fully into center stop bracket. Provides track support and door stop at center of bi-parting door installations.

Brackets for No. 4 Track

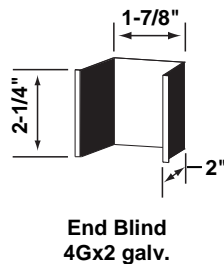
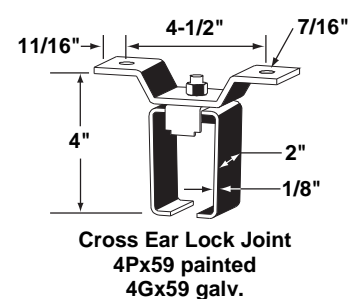
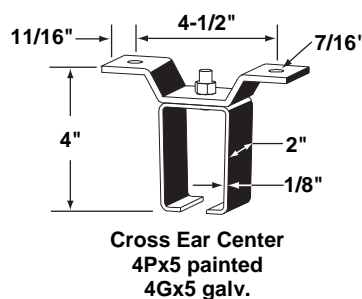
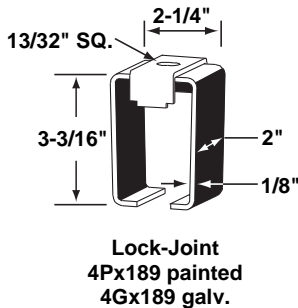
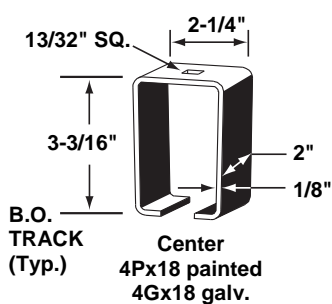
SIDEWALL



Shipping Weight By Bracket Number and Description

Number	4Px1 4Gx1	4Px39 4Gx39	4Px12 4Gx12	4Px22 4Gx22	4Px229 4Gx229
Description	Center	Lock Joint	Center Stop	Dbl. Center	Dbl. Lock Joint
Weight in Lbs.	1	1-1/4	3-1/2	3-1/4	3-3/4

OVERHEAD



Shipping Weight By Bracket Number and Description

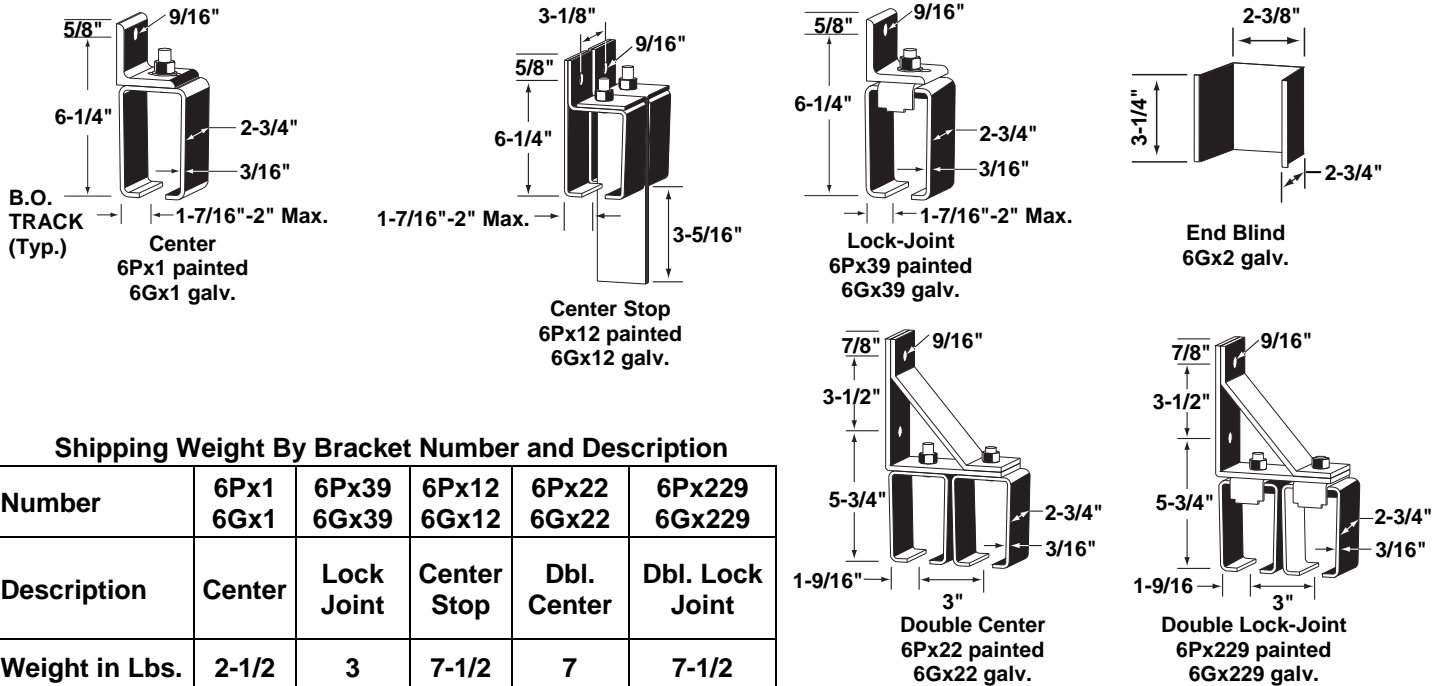
Number	4PX18 4GX18	4PX189 4GX189	4PX5 4GX5	4PX59 4GX59
Description	Center	Lock Joint	Cross Ear Center	Cross Ear Lock Joint
Weight in Lbs.	3/4	1	1-1/2	1-3/4

NOTE: MAX. BRACKET SPACING 30" ON CENTERS. Tracks extend into center stop and end brackets 2".

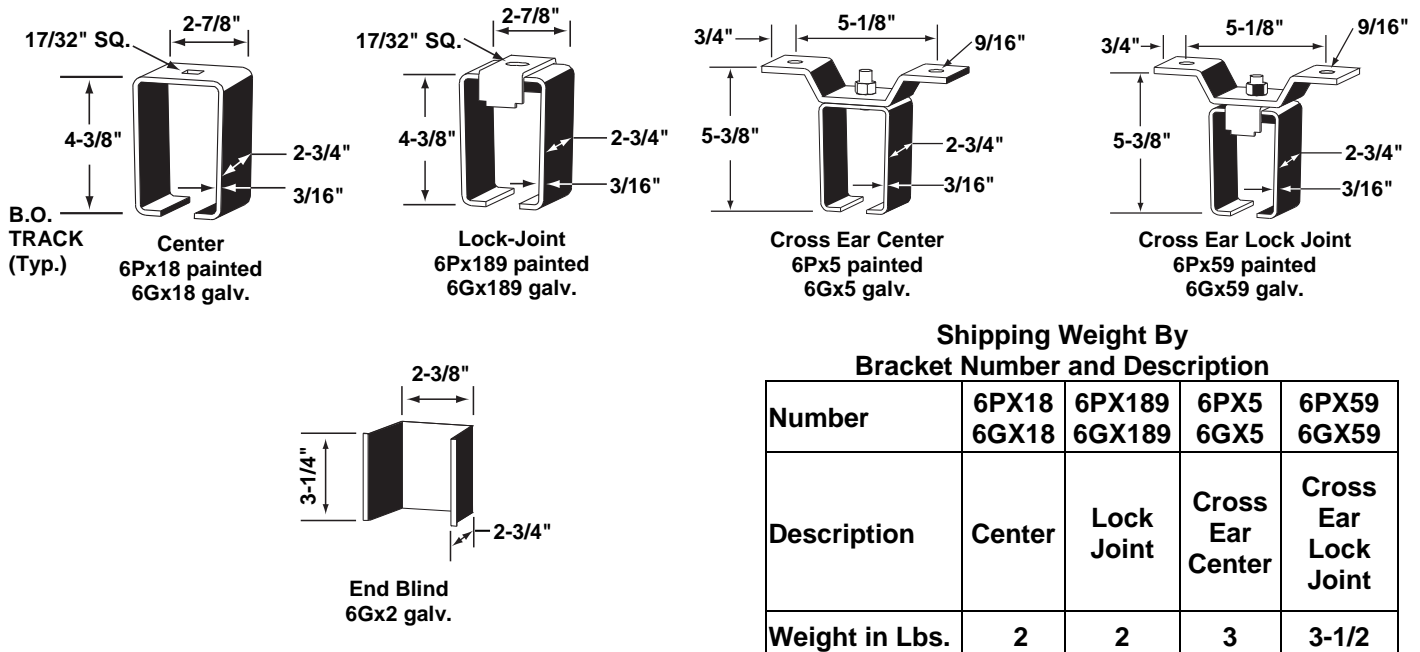
*Use end blind in combination with any center bracket to produce an end bracket.

Brackets for No. 6 Track

SIDEWALL



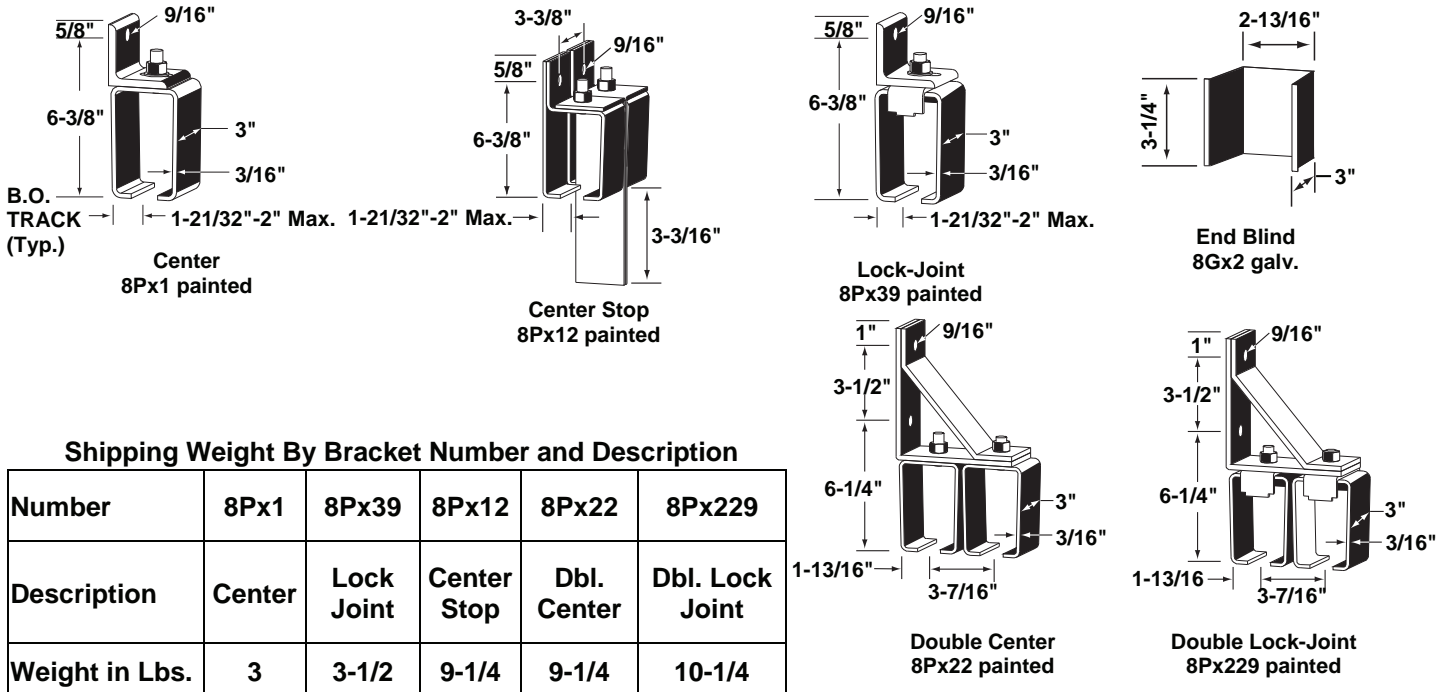
OVERHEAD



NOTE: MAX. BRACKET SPACING 24" ON CENTERS. Tracks extend into center stop and end brackets 2-3/4".
*Use end blind in combination with any center bracket to produce an end bracket.

Brackets for No. 8 Track

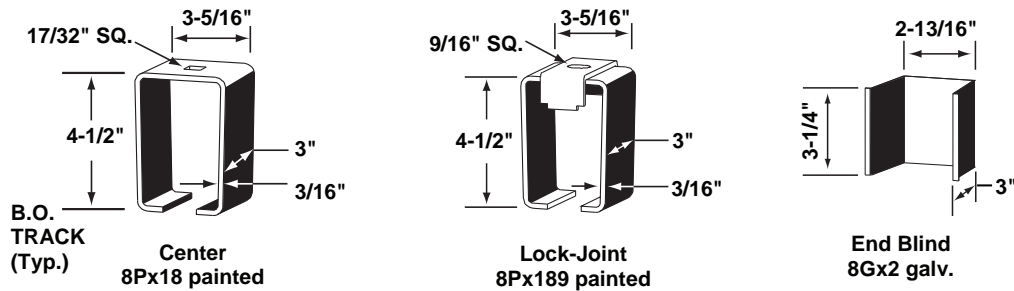
SIDEWALL



Shipping Weight By Bracket Number and Description

Number	8Px1	8Px39	8Px12	8Px22	8Px229
Description	Center	Lock Joint	Center Stop	Dbl. Center	Dbl. Lock Joint
Weight in Lbs.	3	3-1/2	9-1/4	9-1/4	10-1/4

OVERHEAD



Shipping Weight By Bracket Number and Description

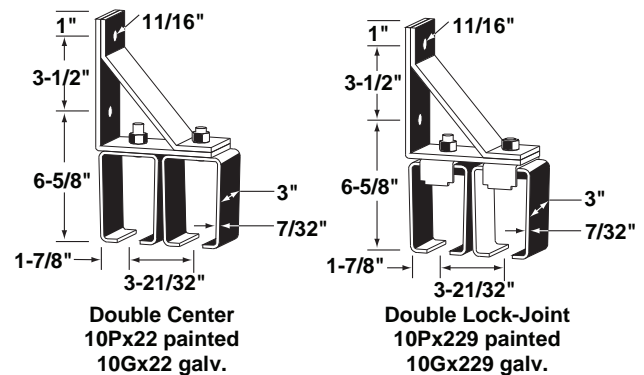
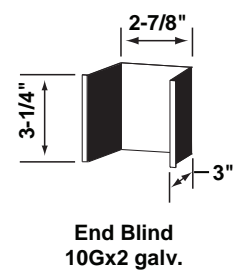
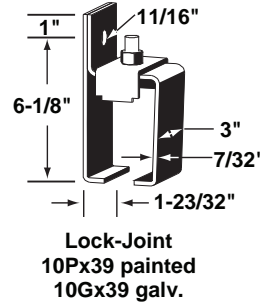
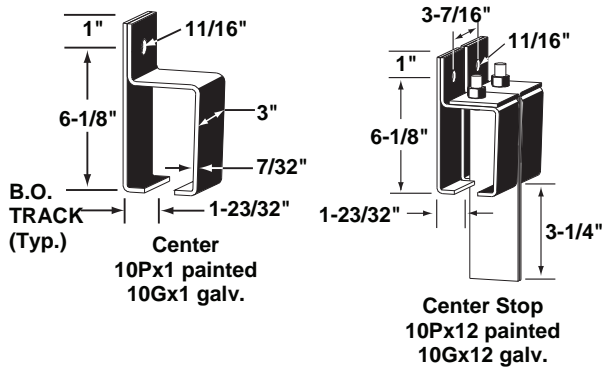
Number	8PX18	8PX189
Description	Center	Lock Joint
Weight in Lbs.	2-1/4	2-3/4

NOTE: MAX. BRACKET SPACING 24" ON CENTERS. Tracks extend into center stop and end brackets 3".

*Use end blind in combination with any center bracket to produce an end bracket.

Brackets for No. 10 Track

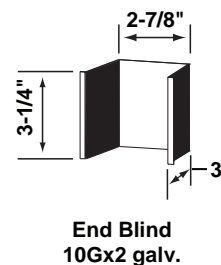
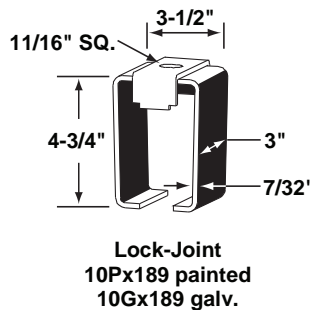
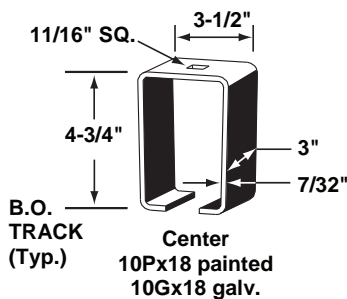
SIDEWALL



Shipping Weight By Bracket Number and Description

Number	10Px1 10Gx1	10Px39 10Gx39	10Px12 10Gx12	10Px22 10Gx22	10Px229 10Gx229
Description	Center	Lock Joint	Center Stop	DbL. Center	DbL. Lock Joint
Weight in Lbs.	4	4-1/2	12	12	13

OVERHEAD



Shipping Weight By
Bracket Number and Description

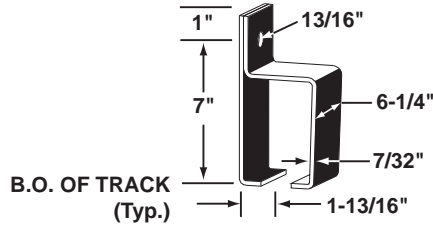
Number	10PX18 10GX18	10PX189 10GX189
Description	Center	Lock Joint
Weight in Lbs.	3	3-1/2

NOTE: MAX. BRACKET SPACING 24" ON CENTERS. Tracks extend into center stop and end brackets 3".

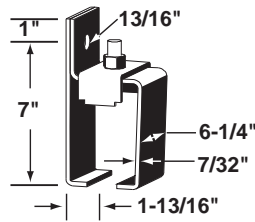
*Use end blind in combination with any center bracket to produce an end bracket.

Brackets for No. 25 Track

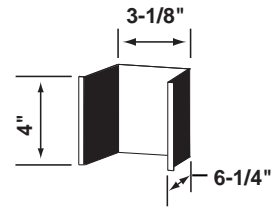
SIDEWALL



Center
25Px1 painted
25Gx1 galv.



Lock-Joint
25Px39 painted
25Gx39 galv.

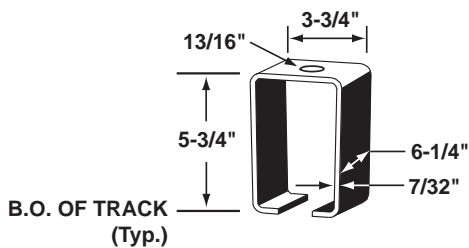


End Blind
25Gx2 galv.

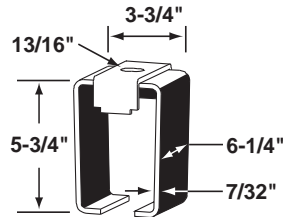
Shipping Weight By
Bracket Number & Description

Number	25Px1 25Gx1	25Px39 25Gx39
Description	Center	Lock Joint
Weight in lbs.	6-1/2	7-1/2

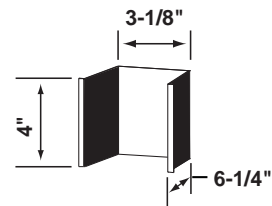
OVERHEAD



Center
25Px18 painted
25Gx18 galv.



Lock-Joint
25Px189 painted
25Gx189 galv.



End Blind
25Gx2 galv.

Shipping Weight By
Bracket Number & Description

Number	25Px18 25Gx18	25Px189 25Gx189
Description	Center	Lock Joint
Weight in lbs.	6	7

**NOTE: MAX. BRACKET SPACING 60" ON CENTERS FOR 2500 Lbs. CAPACITY.
MAX. BRACKET SPACING 24" ON CENTERS FOR 5000 Lbs. CAPACITY.**

Tracks extend into center stop and end brackets 4-1/2".

*Use end blind in combination with any center bracket to produce an end bracket.

†25 Track joints must be welded on all manual applications over 2500 lbs. and for all powered applications.

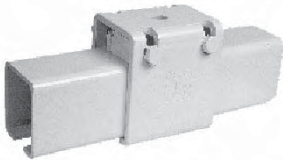
See page 19 for welding kit information.

No. 5 Track Brackets No. 5 & 25 Welding Kits

NO. 5 TRACK BRACKETS

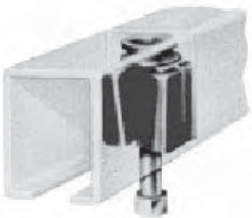


The **5PX18** bracket is used only for suspending #5 track by means of a single bolt. The bracket should be used for supporting the track when the joints are welded and should be used on curves except when the track is supported by angles or flat bar. Distance from top of bracket to bottom of track is 3-3/4". Finish: Painted. Weight: 2 lbs.



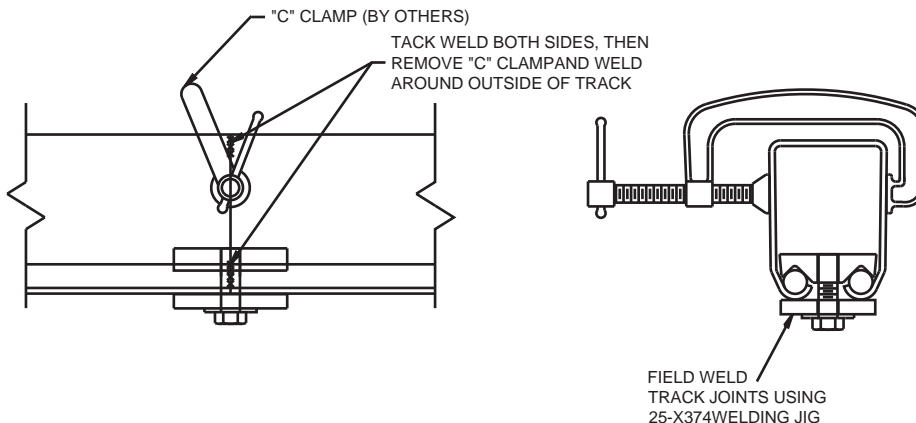
The **5PX18** bracket is used only for suspending #5 track by means of a single bolt. The bracket should be used for supporting the track when the joints are welded and should be used on curves except when the track is supported by angles or flat bar. Distance from top of bracket to bottom of track is 3-3/4". Finish: Painted. Weight: 2 lbs.

NO. 5-X155 WELDING JIG



The welding method is recommended since it makes a continuous section of track eliminating the need for joint brackets. The welding jig aligns the inside of the track, holding the two sections in position for welding thus allowing the weld bead to be flush with the track to ensure smooth operation. Finish: Brass. Weight: 1-1/2 lbs.

NO. 25-X374 WELDING JIG



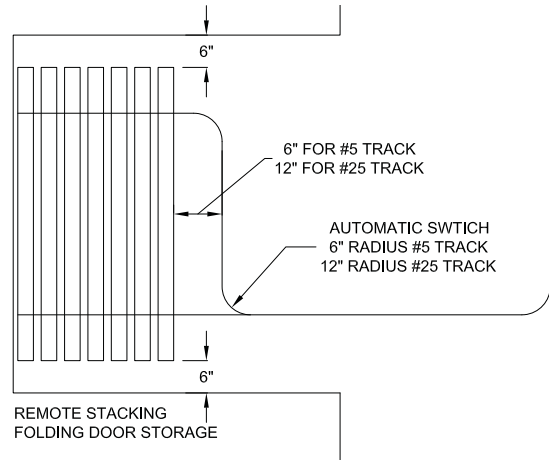
No. 25-X374 Weld Kit

The welding jig is designed to hold #25 track ends in alignment where a field welded joint is required, ensuring the weld bead to be flush with the track for smooth operation. Reusable for up to 30-50 welding operations, depending on temperature usage.

Construction: Brass or bronze fixture clamp parts & steel bolt. Packed: Boxed with instruction sheet. Weight: 2-1/2 lbs.

Note: #25 track joints must be welded on all manual applications over 2500 lbs and for all powered applications.

Curved Track and Switches



NO. 5 TRACK SYSTEM

#5 is a medium capacity, versatile track system. Used for radius doors, folding partitions, flat art storage systems, round the corner doors, live stock/zoo crowding doors, display panels, batch painting booths, tool support systems, monorail systems, and materials handling applications.

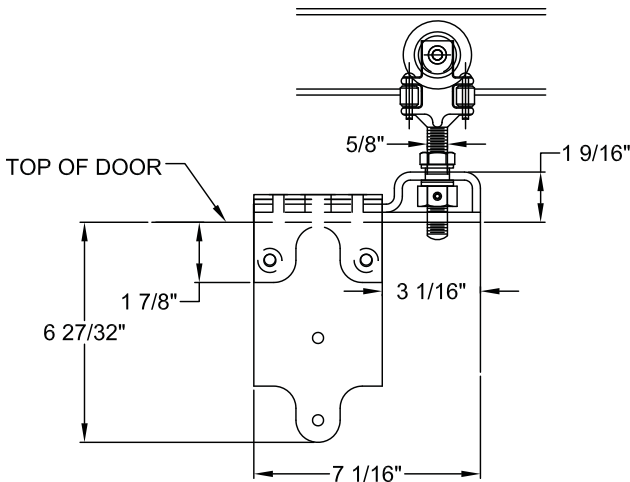
Material is stocked in 10' straight lengths. Horizontal curved track, 90 degree with 2' or 3' radius are stocked. Special radius curves are available to suit almost any radius. Vertical curves are also available. Track support brackets are located 60" on center maximum.

The two wheel #5B442 trolley has 2-1/8" diameter machined steel wheels with ball bearings. A pair of steel guide rollers are built into the assembly. Also in this product line, are automatic or manual frog switches, carrier assemblies, turntables and automatic lowerators.

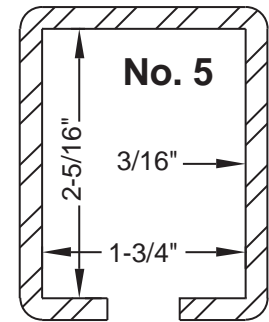
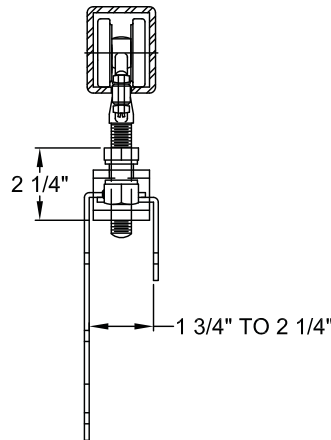


#5B
Trolley
w/ Std. Pendent

#5B442
Trolley
w/ Flattened Pendent
Swivel, Keeper & Top
Plate



#5P-1975 HANGER



CAP.
500 lbs.

Curved Track and Switches

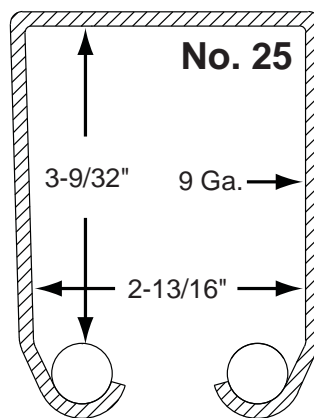


Special No. 25 Track Systems

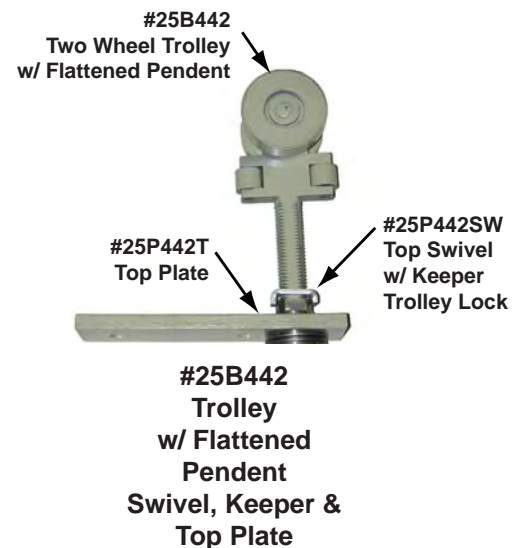
#25 is a high capacity versatile track system. It can accommodate straight sliding, curved and remote stacking applications.

Material is stocked in 6', 8', 10' straight lengths. Horizontal curved sections are available to suit any particular radius. Automatic and manual switches for remote stacking are available in either 30°, 45°, and 90° configurations.

The two wheel #25B442 trolley has 3" diameter machined steel wheels with sealed ball bearings and a pair of steel guide rollers built into the assembly.



**CAP.
1250 lbs.**



Flat Track Hangers

The Flat Track/Hanger concept has been used in the industry since the early 1900's for Barns. Now this product is being used for a variety of single sliding and bi-parting door applications.

Our Flat Track Hardware is custom engineered per your application. It is very sturdy and can enhance a beautiful door in applications such as lofts, kitchens, restaurants, museums, galleries, etc. It is a great alternative to swinging door applications where space is a concern.

NO. 43H FLAT TRACK HANGER

The 43H standard hanger is for manually operated single slide and bi-parting doors up to 400lbs. in weight and a maximum of 3-1/4" thick. The 43H hanger rolls smoothly and quietly on a flat steel bar track (1/4" x 2") which is offset from the wall by our wall spacer. When ordering please be sure to specify the door thickness and door width.

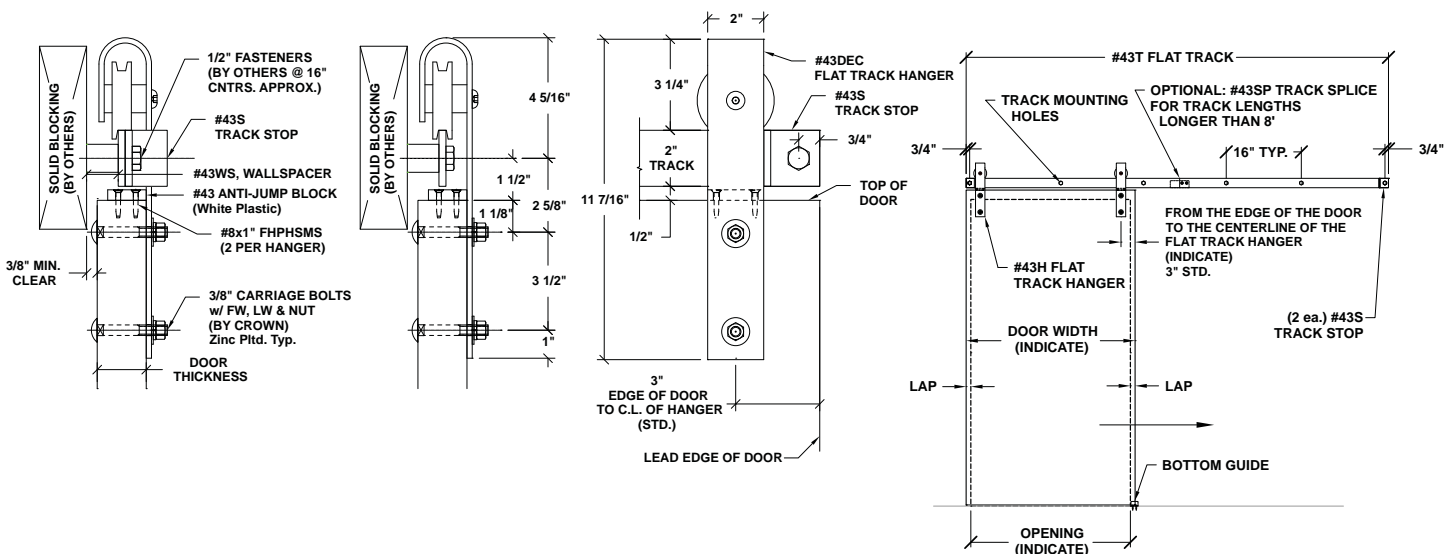
Head clearance: From top of #43h hanger to the top of track 3-1/4".

Construction: Wheels-machined steel, zinc plated with an outer diameter of 2 3/4"; sealed ball bearings. Apron-formed steel 3/16" x 2" x 11-7/16".

Available finishes:

- Flat Black Painted
- Hot Dipped Galvanized
- Raw Steel Sanded with Clear Coat
- 304 Stainless Steel with #4 brushed finish
- Hammer Bronze Painted
- Primer Grey Painted

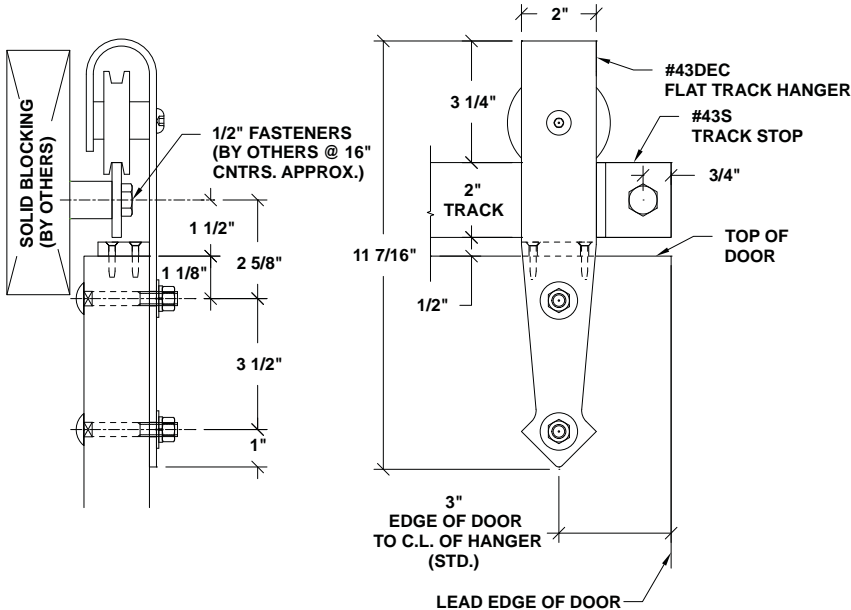
*Custom Finishes available upon request.



Flat Track Hangers

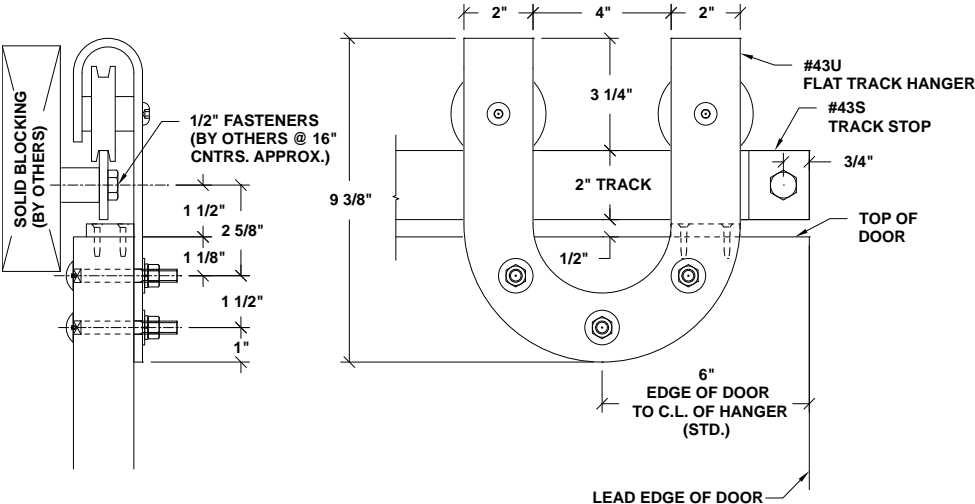
NO. 43H-DEC DECORATIVE FLAT TRACK HANGER

Similar in application to our standard 43H hanger, the 43H-Dec decorative hanger is rated for doors up to 400lbs. in weight and a maximum of 3-1/4" thick. The only difference is the style of the hanger. It has a taper on the hanger and finishes with an arrow head shape.

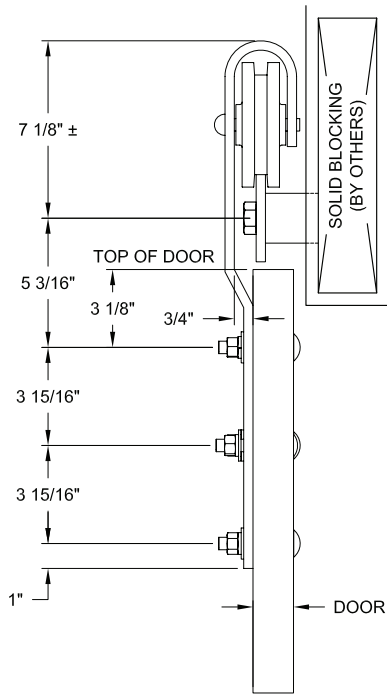


NO. 43U "HORSE SHOE" FLAT TRACK HANGER

Another version of this product is the #43U hanger. This hanger is "U" shaped and uses 2 wheels per hanger. This hanger is rated for doors up to 500lbs. in weight and a maximum of 3-1/4" thick.



Flat Track Hangers for up to 800 pound doors



102 P75 Standard

The #102 Flat Track Hardware systems are similar in application to our #43 style Flat Track Hardware systems, but is designed for larger and heavier duty manually operated single slide and bi-parting applications with door panels up to 800lbs in weight.

No. 102 P75 Flat Track Hangers

For doors up to 800lbs. in weight and 1-5/8" thick.
Also available is the
No. 102 P1075 decorative flat track hanger style.

No. 102 P76 Flat Track Hangers

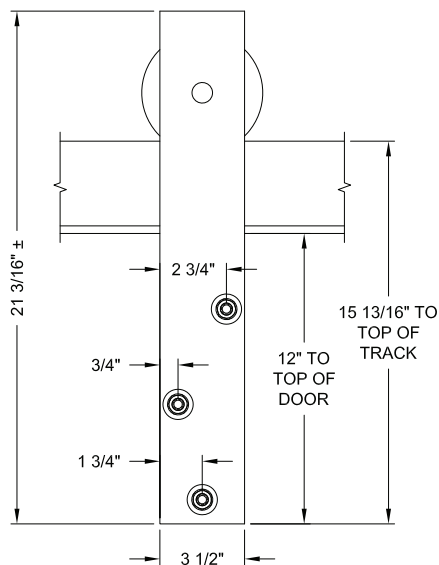
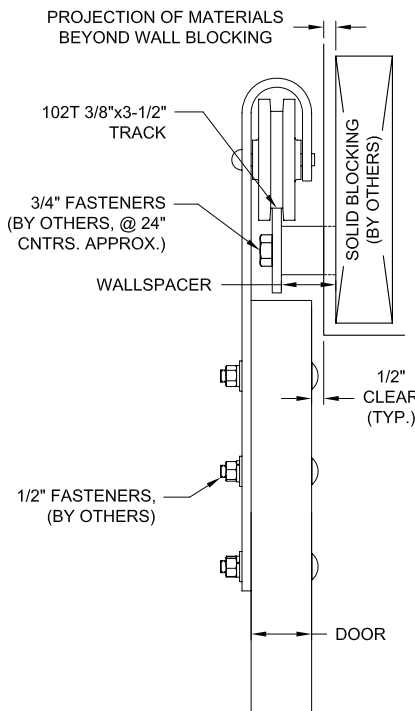
For doors up to 800lbs. in weight and 2-1/2" thick.
Also available is the
No. 102 P1076 decorative flat track hanger style.

Head clearance: From top of track to top of hanger 5-3/8".

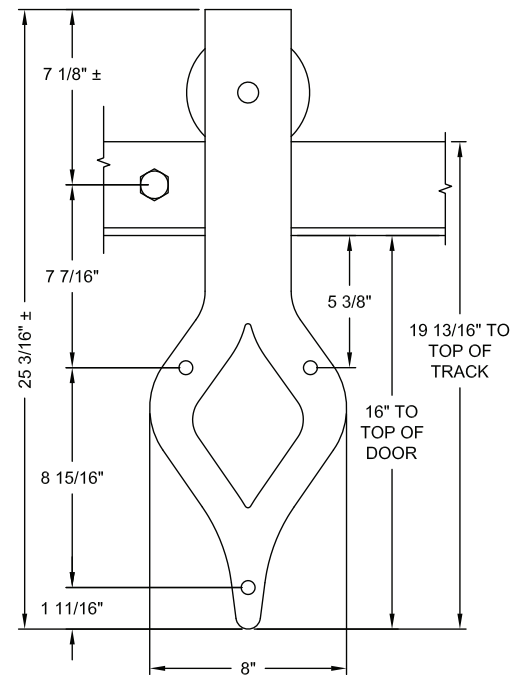
Construction: 4" diameter zinc plated steel with roller bearings.

Hanger 3/8" x 3-1/2" x 21-3/16" steel.

Finish: Painted-Standard Pebble Sand or Black.



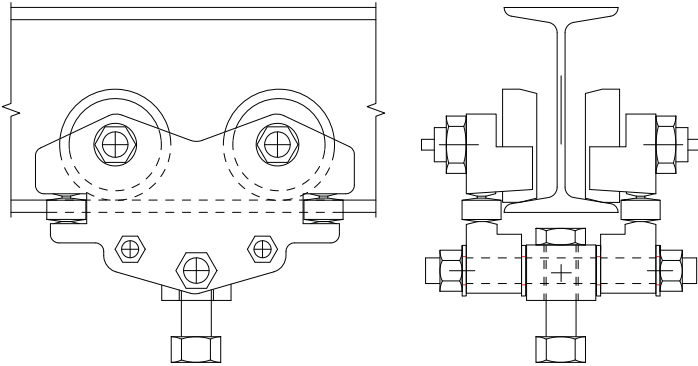
102 P76 Standard



102 P1076 Decorative

I-Beam Trolleys & Bottom Rollers

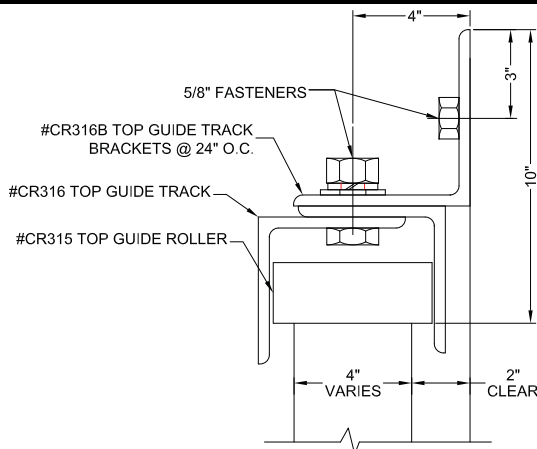
NO. CR10711 I-BEAM TROLLEYS



The I-Beam Trolley is used for doors that are supported from above and weigh up to 8,000 pounds. The track is a standard steel I-Beam.

Part #	Max Door Weight	Product Weight
10711	3,000 lbs.	27 lbs.
8360	4,000 lbs.	28 lbs.
8363	8,000 lbs.	67 lbs.

NO. CR314 TOP ROLLER GUIDE



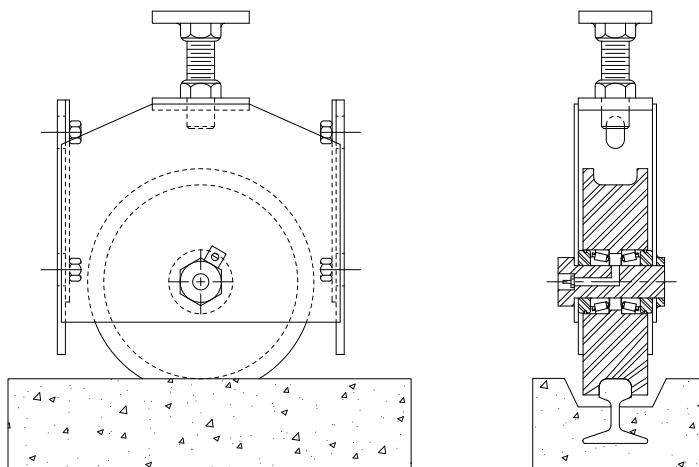
The CR314 top guide operates between two parallel angles for each door as shown in the illustration. The rollers are made of Delrin or steel as required, and are self lubricating.

The roller housing is made of steel and designed to be bolted to the top of the door.

The diameter of the roller will vary depending upon the thickness of the door, the thickness of the guide angles, as well as the clearance between doors. The dimensions in the illustration are suggestive and may vary considerably. Finish: Painted.

*Typically used with bottom roller applications.

BOTTOM ROLLERS FOR DOORS UP TO 128,000 LBS.

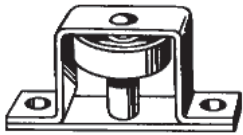


The bottom roller wheels are machined from solid steel plate. The bottom rollers are built into the frame of the door or gate and run on standard railroad. No more or less than (1) Pair of rollers per gate/door.

Part #	Vertical Load (lbs./Pr.)	Thrust Load (lbs./Pr.)	Max Door Size (sq. ft.)	Max Rail Size
916-BR	600	INTERIOR USE ONLY		
CR-6	15,000	6,000	250	20#
CR-9	20,000	8,000	400	25#
CR-12	32,000	10,000	500	30#
CR-15L	32,000	10,000	500	30#
CR-15H	54,000	22,000	750	40#
CR-18	66,000	44,000	1,000	80#
CR-24	128,000	44,000	1,000+	100#

Stay Rollers

NO. 54, 58, 59, 153 & 154 STAY ROLLERS



54 P3

No. 54 P3 Stay Roller

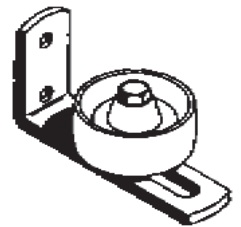
Wheel: 2-1/2" diameter high impact nylon. Covered steel frame: 6" long, 2-3/4" high, 2" wide. Slotted mounting holes provide means for adjustment.

Finish: zinc plated. Boxed, less fasteners. Weight: 2 lbs.

No. 58 P2 Stay Roller

For doors 1-1/2" to 2-3/4" thick. Adjustable and reversible. Wheel: 2-1/2" diameter high impact nylon. Steel frame: 5" long x 2-1/2" high x 1-1/4" wide.

Finish: painted or **Stainless Steel**. Boxed, less fasteners. Weight: 1 lbs.



58 P2



59 P7

No. 59 P7 Stay Roller (with back brace)

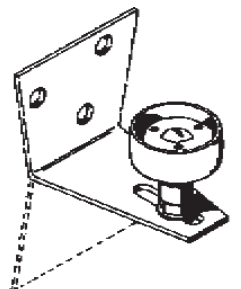
Extra high to suit door on incline track. Wheel: 3" diameter black phenolic. Steel frame: 2-1/2" wide, 3/16" thick. Distance from floor to center of wheel: 8-3/8". Overall height: 9-1/2".

Finish: painted. Boxed, less fasteners. Weight: 4 lbs.

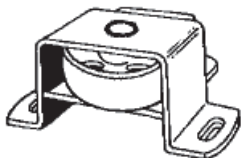
No. 153 P5 Stay Roller

For doors 1-1/4" to 3" thick. Adjustable and reversible. Wheel: 3" diameter black phenolic. Steel frame: 5" long x 3-1/2" high x 4-9/16" wide. Finish: painted. Boxed, less fasteners.

Weight: 2 lbs.



153 P5



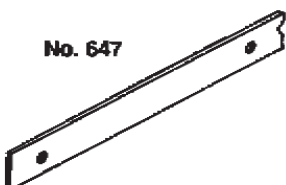
154 P4

No. 154 P4 Stay Roller

Wheel: 3" diameter black phenolic. Covered steel frame: 7" long, 3" high, 5" wide. Slotted mounting holes provide means for adjustment.

Finish: painted. Boxed, less fasteners. Weight: 4 lbs.

NO. 647 STAY ROLLER GUIDE ROLL STRIP



No. 647

No. 647 Stay Roller Strip

This strip mounts to face of door on side of stay roller. When door slides, the stay roller rolls against the guide roll strip instead of causing damage to the face of the door.

Material: 1/8" thick x 1-1/2" wide. Countersunk holes for #10 flat head fasteners.

Finish: Painted or **Hot Dipped Galvanized**. Packed: Bulk, less fasteners.

Weight: 13 oz. per foot.

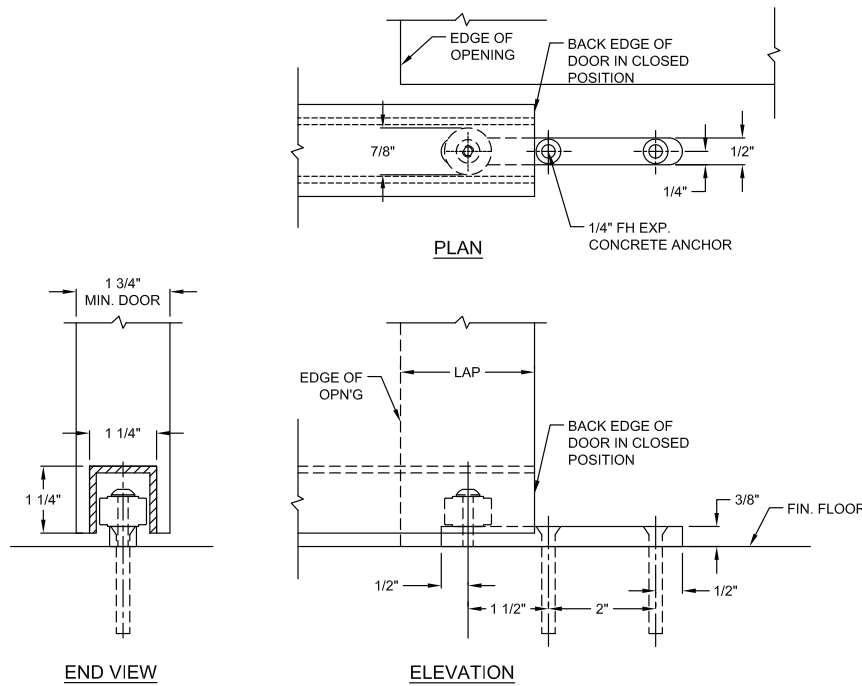
Concealed Stay Roller & Channel

NO. CRS-14 CONCEALED STAY ROLLER

No. CRS-14 Concealed Stay Roller with No. CRSC-14 Concealed Stay Roller Channel

The CRS-14 stay roller is ideal for single sliding, bi-passing, and bi-parting doors where the roller must be concealed. Doors must be no less than 1-3/4" thick. Use the No. CTG-160 for doors that are less than 1-3/4" thick. For larger or thicker doors use the CRS-20. ***Wall mounted option also available.**

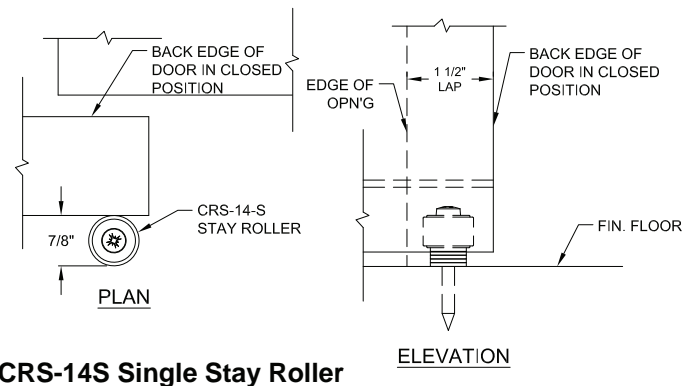
Note: The bottom of the door must be prepared with a 1-1/4"x1-1/4" continuous slot to accommodate the CRSC-14 aluminum channel.



CRS-14 Concealed Stay Roller

No. CRS-14S Single Concealed Stay Roller

This stay roller is an alternative to the CRS-14. When used in conjunction with the CRSC-14 Concealed Stay Roller Channel, the CRS-14S is excellent for interior residential applications where no visible floor guide is acceptable. The CRS-14S can also be used as a surface mounted stay roller for thin lightweight doors. ***Wall mounted option also available.**



CRS-14S Single Stay Roller

No. CRS-20 Concealed Stay Roller with No. CRSC-20 Concealed Stay Roller Channel

The CRS-20 concealed stay roller is available for doors no less than 2-1/4" thick.

***Wall mounted option also available.**

Note: The bottom of the door must be prepared with a 1-1/2"x1-1/2" continuous slot to accommodate the CRSC-20 Aluminum channel.

*Custom Concealed stay rollers are also available upon request.

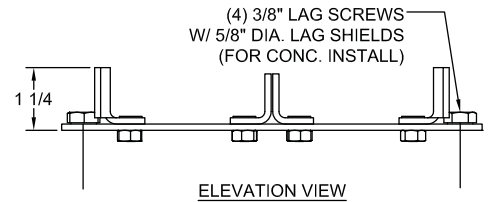
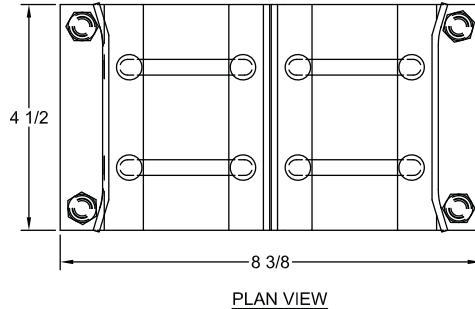
Floor Guides & Concealed Stay Rollers

NO. 173-4 PARALLEL DOUBLE DOOR GUIDE

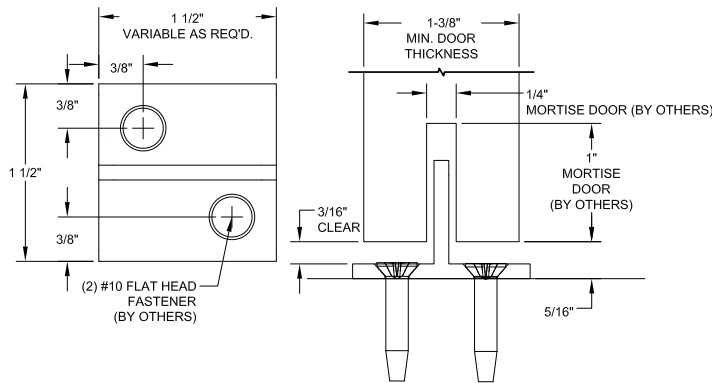
Used for bi-passing or parallel doors. Suitable with concrete or wood floors. Often used in garage door applications where one door moves behind another door.

Adjustable for doors from 1-1/2" to 3" thick.

Application: Bi-passing.
Finish: Zinc plated.



NO. CTG-160 CONCEALED "T" GUIDE



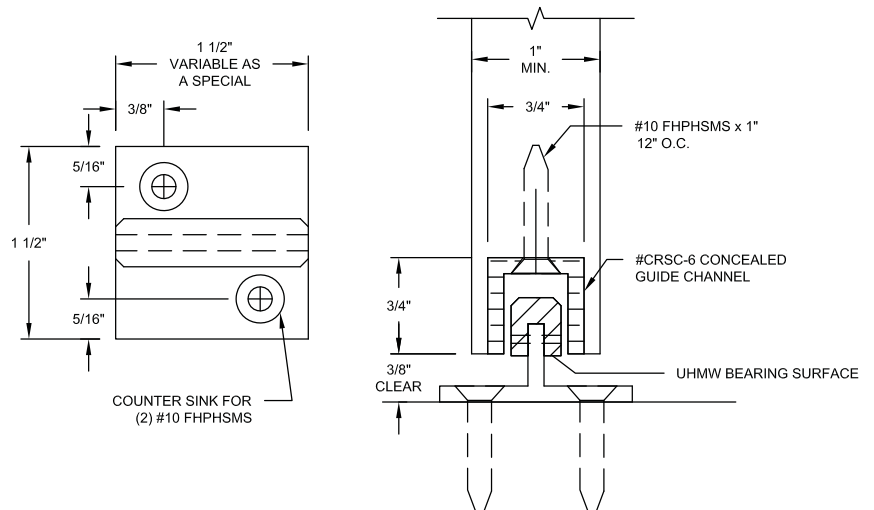
For light weight interior wood doors, the CTG-160 is a floor-mounted guide that is positioned under the door where the trailing edge of the door laps the jamb. The bottom of the door must be prepared with a 1/4"x1" continuous slot that runs the full width of the door. The CTG-160 guide is for doors less than 3'-6" in width and are no less than 1-3/8" thick.

Application: Bi-parting, Single Sliding, & Bi-passing doors.
***Wall mounted option available.**

NO. CTG-160HD HEAVY DUTY CONCEALED "T" GUIDE

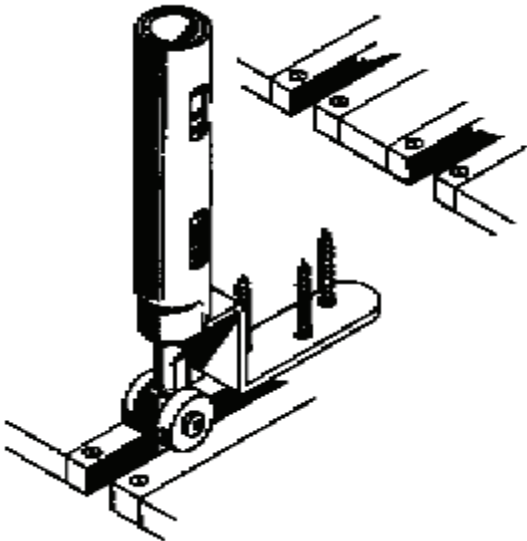
For wood doors no less than 1" thick, the CTG-160HD with #CRSC-6 guide channel offers additional strength to the bottom of the door. This concealed guide is very similar in application as the #CTG-160.

Note: The bottom of the door must be prepared with a 3/4"x3/4" slot to accommodate the #CRSC-6 aluminum guide channel.
***Wall mounted option available.**



Floor Guide Track Systems

NO. 739 FLOOR GUIDE



No. 739 P26 Floor Guide

Ideal for telescoping doors or slide folding doors. For use on doors with a minimum thickness of 1-3/8". Number of guides should equal number of hangers used on doors. Hardware should be located directly in line with hangers on folding and sliding doors.

Rollers held in contact with the guide track by light spring pressure; swivels when used with folding doors.

Finish: Painted. Packed: One wrapped with screws. Weight: 1 lb. each.

No. 739 P28 Floor Guide Track

Designed for use with the 739 P26 Floor Guide on telescoping or slide folding wood door applications. Available in single track sets 10' long. Use multiple sets for parallel sliding doors.

Construction: Heavy steel bars, 3/8"x1/2"x10' Lng.

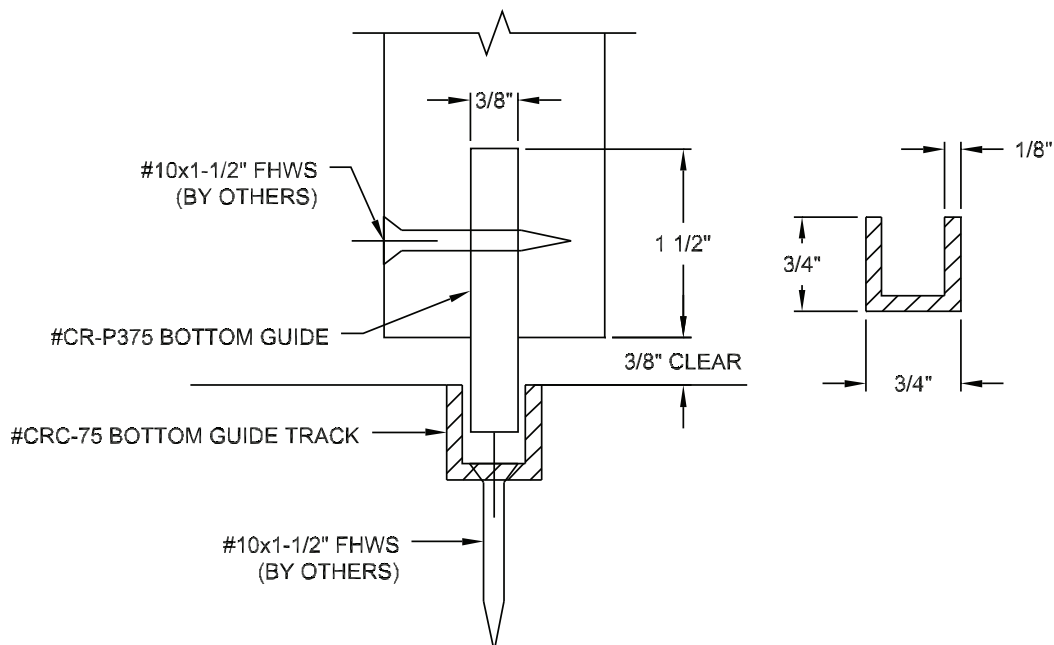
Packed: In bulk, less fasteners.

Finish: Painted. Also available in stainless steel bars.

NO. CRC-75 FLOOR GUIDE TRACK W/ CR-P375 BOTTOM GUIDE

No. CRC-75 Bottom Guide Bronze Track with CR-P375 Bottom Delrin Guide

Ideal for telescoping or bypassing applications. For use on interior and exterior doors with a minimum thickness of 1-3/8". The bottom of the door must be prepared with a 3/8"x1-1/2" continuous slot to accommodate the CR-P375 bottom delrin guide. The floor must also be prepared for the 3/4"x3/4" CRC-75 Bottom Guide (for floor preparation allow for shimming and leveling of bottom guide).



Door Stops

NO. 89 BINDER AND STOP



No. 89 P4

Adjustable door binder and stop for doors 1-3/4" to 3" thick. Three-piece steel construction, base 3/16" thick, brace 1/8" thick x 1-3/4" wide. End is flared to receive door. May be used at front or back of door.

Finish: Painted. Packaged: Boxed, with lag screws. Weight: 1-3/4 lbs. each.

BUMPER SHOE AND END STOP

No. 102 Bumper Shoe

Protects the corners of wood doors where they come in contact with binders, bumpers and guides. 16 Gauge Steel. 3-1/2" high, 3-1/2" wide, 3/4" lip.

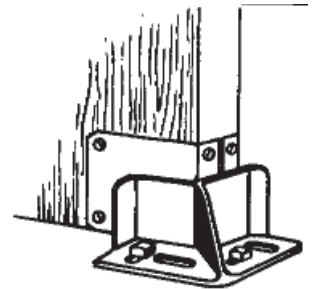
Finish: Painted - **102 P136** Galvanized - **102 P137**

Packaged: Boxed, with wood screws. Weight: 1/2 lb. each.

No. 572 End Stop (shown with 1 pr. of 102 bumper shoes)

For straight sliding doors, any thickness. Height: 2-1/4". Door receiving space: 2"x2".

Finish: Painted or Galvanized. Packaged: Boxed, less screws. Weight: 1-3/4 lbs.



Note: Bottom of wood doors which comes into contact with guides should be protected by steel bumper shoes which must be ordered separately.

82 AND 102 BINDERS

No. 82 Steel Binder

1/4" thick steel x 2" wide. Accommodates three different door thicknesses.

Finish: Painted, Galvanized, or stainless steel. Packaged: Boxed, less screws.

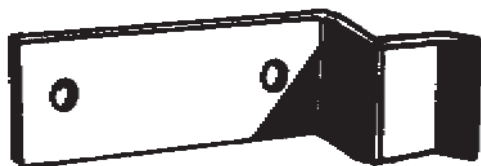


Catalog No.	82 P2	82 P5	82 P7
Thickness of Door	1-3/4"	2-1/2"	3"
Weight in lbs., ea.	1-1/4	1-1/2	1-3/4

No. 102 Steel Binder

3/8" thick steel x 3" wide. Accommodates two different door thicknesses.

Finish: Painted, Galvanized, or stainless steel. Packaged: Boxed, less screws.



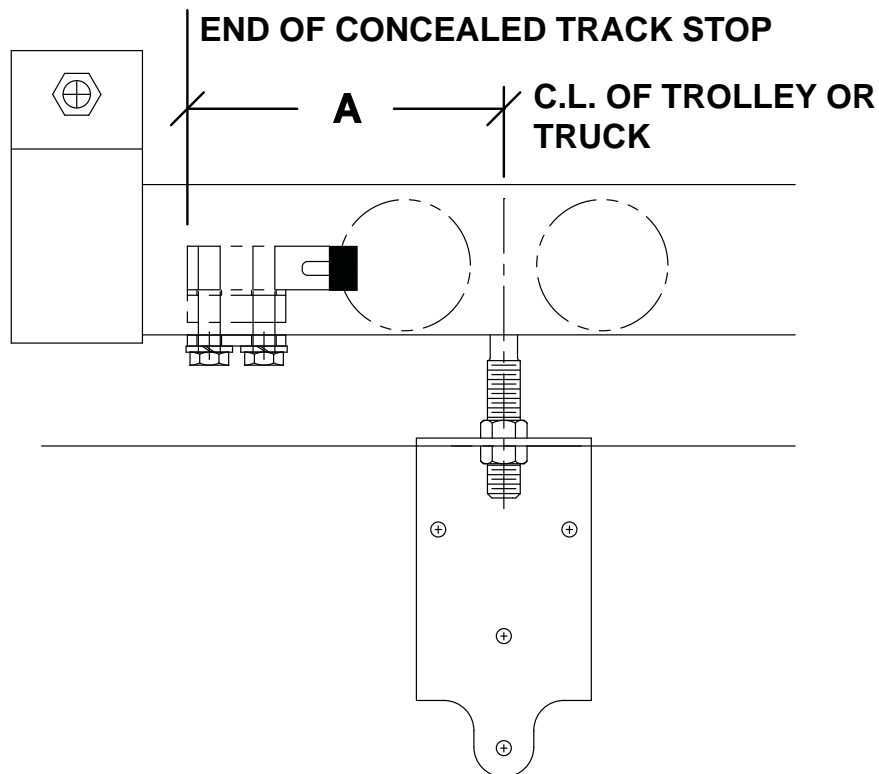
Catalog No.	102 P33	102 P34
Thickness of Door	1-3/4"	2-1/2"
Weight in lbs., ea.	5	6

Concealed Door Stops

CONCEALED DOOR STOPS FOR BOX TRACK

CSTR series of stops are available for all the Crown box track products. These stops are concealed inside the box track. Each stop with a rubber bumper is adjustable and can be placed at the ends, middle or anywhere along the length of the track. Placing the stops in the middle is ideal for bi-parting door applications so the doors don't bump each other. These stops are also ideal for applications where having floor stops or wall binders are not practical or pose a safety issue.

Box Track-Truck Product Numbers	Concealed Door Stop	Dimension "A"
#4	4.00CSTR	5-1/4"
#5	5.00CSTR	3-3/4"
#6	6.00CSTR	7-1/4"
#8	8.00CSTR	7-1/4"
#10	10.00CSTR	6-3/4"
#25 BLE	25.00CSTR	7-1/4"
#25 BSE	25.00CSTR	7"



Bow Handles & Hasps

NO. 71, 81, 83, & 191 BOW HANDLES



No. 71 Bow Handle

No. 71 P1 is 6-1/2" long. Weight: 1/4 lb.

No. 71 P2 is 7-3/8" long. Weight: 1/2 lb.

Steel construction. Bolt holes align with bolt holes of No. 70 flush pulls.

Finish: painted or galvanized. Boxed, less screws.

No. 81 Bow Handle

No. 81 P1 is 6-1/4" long. Weight: 1/2 lb.

No. 81 P2 is 8" long. Weight: 1 lb.

Grey iron. Finish: painted or galvanized. Boxed with wood screws.

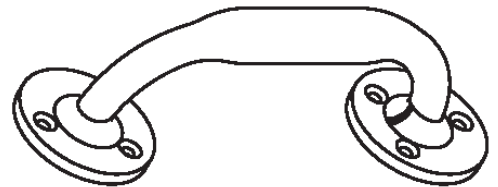


No. 83 P2SS Stainless Steel Bow Handle

Size: 2" wide x 7-1/2" long x 2-3/16" projection. Hole size for #8 FHMS. Finish: US32D stainless steel. Boxed, with screws. Weight: 1-1/2 lbs. each.

No. 191 Bow Handle

Size: 2" wide x 15" long x 2-3/4" projection. Hole size 9/16". Constructed of malleable iron. Finish: painted or galvanized. Boxed, less bolts. Weight: 2-3/4 lbs. each.



NO. 182 HASP

No. 182.00020ZC Heavy Hasp

For 1-3/4" thick doors. Acts as a door bumper, binder and hasp for heavy doors.

Construction: Hasp, malleable iron. Staple, steel. Length on wall, 7-7/8". Length of hinged leaf which overlaps door, 5".

Furnished with wood screws for padlock eye.

Finish: zinc plated. Boxed, less bolts. Weight: 4 lbs.

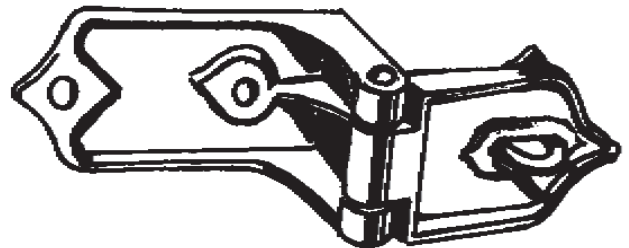
No. 182.00030ZC Heavy Hasp

For 2-1/2" to 3" thick doors. Acts as a door bumper, binder and hasp for heavy doors.

Construction: Hasp, malleable iron. Staple, steel. Length on wall, 7-7/8". Length of hinged leaf which overlaps door, 5".

Furnished with wood screws for padlock eye.

Finish: zinc plated. Boxed, less bolts. Weight: 4-3/4 lbs.



NO. 70, 470 & 535 Flush Door Pulls

NO. 70 FLUSH PULL



No. 70 P5 Flush Pull (Standard Duty)

For doors up to 1-3/4" thick. Requires 7/8" deep mortise. Size 4" x 6". Inside dimensions of cup, 1-7/16" x 3-1/2" x 7/8" deep. Made of steel. Boxed, less screws. Finish, painted. Weight, each, 3/4 lb.

No. 70 P6 Flush Pull (Standard Duty)

For doors over 1-3/4" thick. Requires 1-11/16" deep mortise. Size 4-1/2" x 7". Inside dimensions of cup, 1-3/8" x 4-1/2" x 1-5/8" deep. Made of steel. Boxed, less bolts. Finish, painted. Weight, each, 1 lb.

NO. 470 FLUSH PULL



No. 470 P1 Flush Pull (Heavy Duty)

For steel doors 1-3/4" or more in thickness. For wood doors 1-7/8" or more in thickness. Requires 4-1/4" wide x 5" tall x 1-3/4" deep mortise. Size 6-3/4" high by 5-1/8" wide. Inside dimensions of cup, 3-5/8" wide x 4-3/8" high, 1-5/8" deep. Pull made of malleable iron. Boxed, less screws. Finish, painted. Weight, each, 2-1/4 lbs.

NO. 535 FLUSH PULL



No. 535 Flush Pull (Light Duty)

Designed for use with any door 1-3/8" or more in thickness. Made of cast aluminum alloy. Length, 5-1/4"; width, 3-3/8"; depth, 1".

#535 P489 Finish: painted black.

#535 P615 Finish: brushed aluminum.

NO. 72 FLUSH PULL



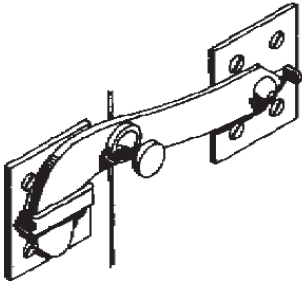
No. 72 Flush Pull (Light Duty)

Designed for use with any door 1-3/8" or more in thickness. Length, 5"; width, 3-1/2"; depth, 13/16". Cup size 1-3/4" wide; 3-3/8" high. #72 P2 Finish: brushed satin chromium US 26D. #72 P1SS Finish: satin stainless steel US 32D.

*Spl. Back to Back flush pulls are available for 1-3/4" Thick Door.

Door Latches

NO. 1025 SMALL DOOR LATCH



No. 1025 P19 Door Latch (left hand)

For small sized swing or slide doors.

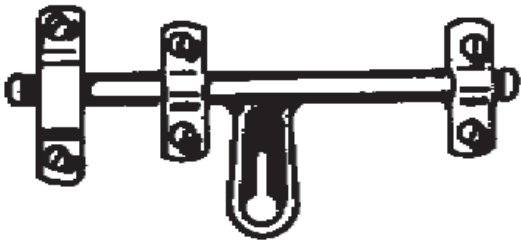
Construction: Steel. Latch Bar: 5/16" x 1" x 6-1/4" long. **Finish:** Painted.

Packaged: Boxed, with zinc pltd. #12 FSHSMS x 1-1/2" screws (all the same hand).

Weight: 7-1/2 lbs.

No. 1025 P26 Door Latch (right hand, as shown in illustration)

NO. 128 "HORSE FOOLER" LATCH



No. 128 P10 Medium Door Latch (painted)

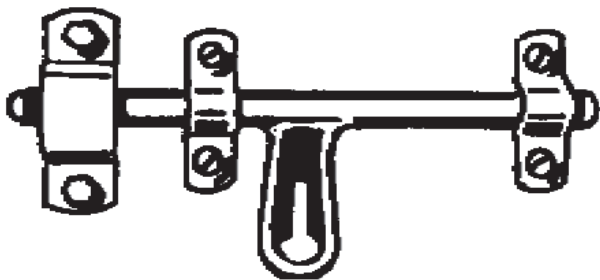
No. 128 P12 Medium Door Latch (zinc)

For medium sized swing or slide doors. Reversible for left or right hand doors. Offset latch ends prevent accidental opening by vibration.

Construction: Latch bolt, malleable iron 1/2" x 8". Keeper and guides, steel.

Finish: Clips and Keeper zinc plated.

Packaged: Boxed, with screws. **Weight:** 1 lb.



No. 128 P11 Large Door Latch (painted)

No. 128 P11ZC Large Door Latch (zinc)

For large sized swing or slide doors. Reversible for left or right hand doors. Offset latch ends prevent accidental opening by vibration.

Construction: Latch bolt, malleable iron 3/4" x 12". Keeper and guides, steel.

Finish: Clips and Keeper zinc plated.

Packaged: Boxed, with screws. **Weight:** 2-1/2 lbs.



No. 128 P14 Latch Padlock Staple (zinc)

To be used with No. 128 latches when a padlock is required.

Door Latches

NO. 225 SMALL AND MEDIUM DOOR LATCH (operable on either side of door)

No. 225 P43 Door Latch (Small Size Swing Doors)

No. 225 P45 Door Latch (Medium Size Swing Doors)

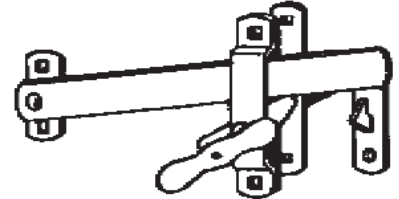
For small and medium swing doors from 1-3/4" to 2-5/8" thick. Operate latch bar from either side by turning handle. Reversible for left or right hand doors.

Construction: Latch bar, steel. Handles, malleable iron.

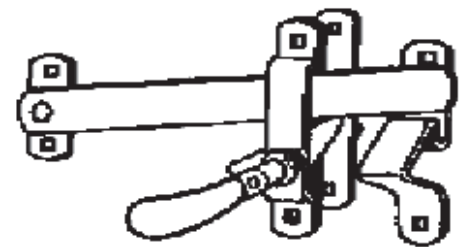
Finish: Latch Bar and Keeper Zinc. Plated.

*Custom spindle available for thicker doors.

Catalogue No.	Handle Type	Latch Bar	Weight
225 P43	Tee	1/4" x 1" x 10" Long	2-3/4 lbs.
225 P45	Lever	5/16" x 1-1/2" x 13-5/8" long	5-1/2 lbs.



225 P43



225 P45

NO. 152 LARGE DOOR LATCH (operable on either side of door)

No. 152 Door Latch

For large swing or slide doors from 1-3/4" to 2-3/4" thick. Operate latch by turning flush handle on far side or by lifting handle on near side. Reversible for left or right hand doors. Keeper has aligning holes for padlock.

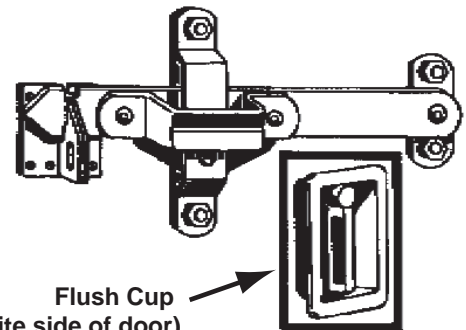
Latch bar size: 5/16" x 1-1/2" x 13-5/8" long.

Flush cup size: 3" x 3-7/8" high inside.

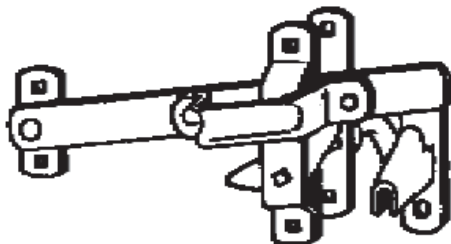
Construction: Steel. **Finish:** Zinc plated.

Packaged: Boxed, less bolts. **Weight:** 5-3/4 lbs.

*Custom spindle available for thicker doors.



NO. 125 P15 LARGE DOOR LATCH (operable on either side of door)



No. 125 P15 Large Door Latch

For large swing doors up to 3" thick. Operate latch by turning lever handle on far side or lifting handle on near side.

Latch bar: 5/16" x 1-1/2" x 13-5/8" long. Reversible for left or right hand doors.

Construction: Latch bar, steel. Lever handle, malleable iron.

Finish: Zinc Plated.

Packaged: Boxed, less fasteners. **Weight:** 4-3/4 lbs.

*Custom spindle available for thicker doors.

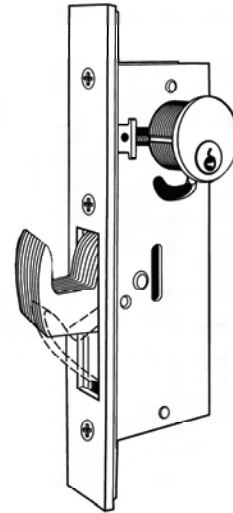
1850SN-050 Deadbolt Lock

This maximum security key locking system is best used for Bi-parting sliding door or Swinging door applications. Its standard 1-1/2" backset dimension provides adequate clearance for the deep jamb "pocket" of many commercial and industrial entrances. An alternate solution is the #2001 Series Deadbolt Lock.

Cylinder Back Set
1-1/2" standard

Armored Faceplate
1-1/4" x 8"
Standard Finish: US28 Satin Aluminum

Bolt
5/8" x 1-3/8" with 13/16" throw.
Five-ply laminated stainless steel with Alumina Ceramic core defeats any hacksaw attack (including so-called super hacksaws) while hook shape repels pry bar attempts to "spread" door from its jamb or lift it off its track.

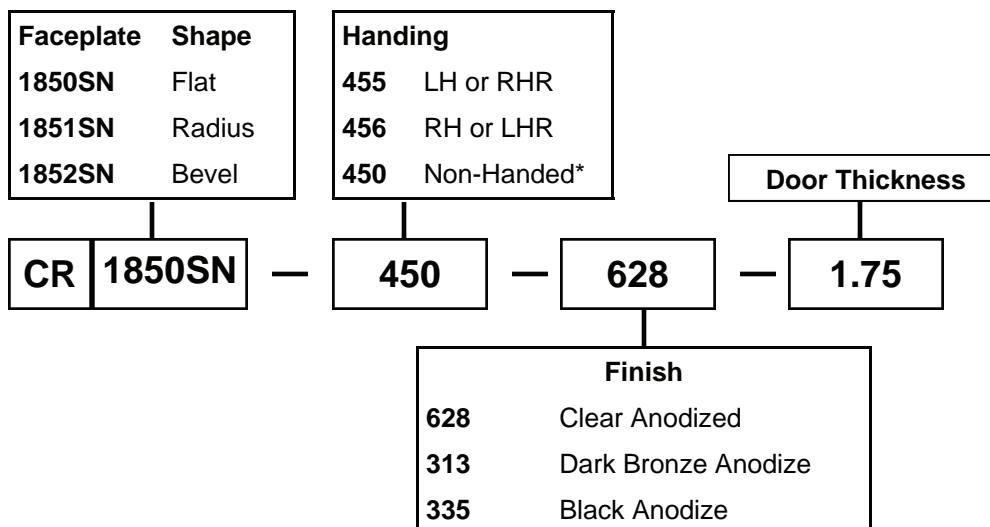


Operation
360° turn of key (or thumb turn) throws or retracts the counter balanced bolt. Key can be removed only when the bolt is in the positive locked or unlocked position. Lock accepts any standard 1-5/32" dia mortise cylinder or thumb turn from either or both sides.

Case
Steel with corrosion-resistant plating 1" x 6" x 2-1/4".

HOW TO SPECIFY

Specify the following information



Deadbolt Lock

NO. 2001 SERIES DEADBOLT LOCKS

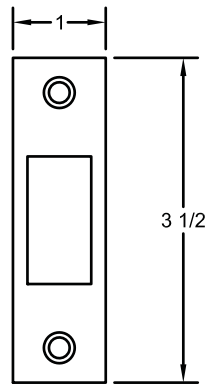
To secure Bi-Parting or Single Slide Doors for maximum security. Various backsets include 2-1/2", 2-3/4", 3-3/4", 5", and 6".

OPERATION:	
2001 SDL-1	By Key Outside Only
2001 SDL-2	By Key Outside Only & Inside
2001 SDL-3	By Key Outside Only, Thumb Turn Inside
2001 SDL-4	Thumb Turn Inside Only
2001 SDL-5	By Thumb Turn Inside Emergency Key Outside

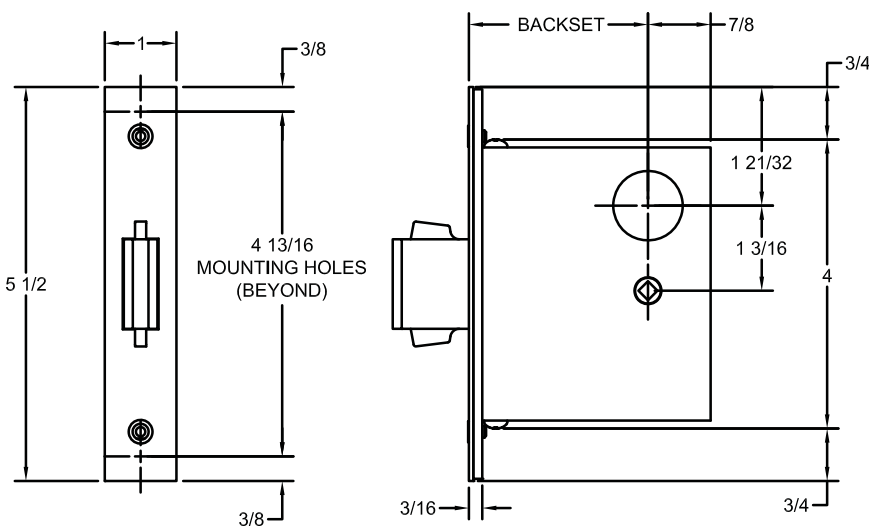
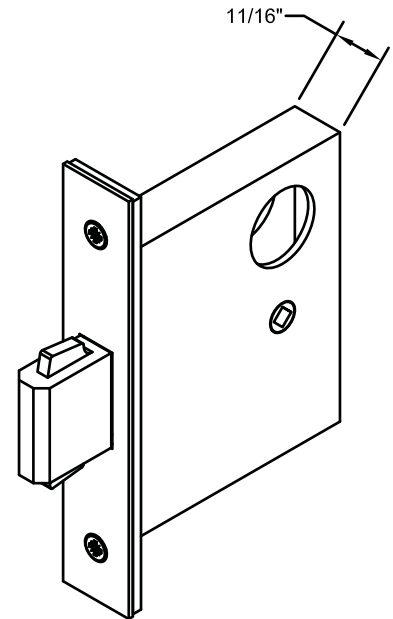
Please Note:
The above numbers are for specification and trim selection.
The lock itself is the same for all operations.

*Compatible with standard 1-1/8" Dia. cylinders & thumb turns.

**Upon ordering indicate finish, backset, door thickness, and operation.



STRIKE PLATE



Case: Heavy Gauge Wrought 11/16".

Armor Front: stainless steel, alternative finishes available.

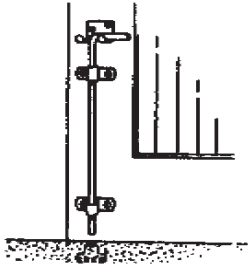
Deadbolt: 1/2" thick x 1-7/32" high w/ 1" Throw.

Strike Plate: stainless steel, alternative finishes available.

Thumb Turn Hub: 3/16" (5mm) located at diamond shaped insert.

No. 524 Cane Bolts No's. 434 & 514 Spring Bolts

NO. 524 CANE BOTTOM BOLT



No. 524 Cane Bottom Bolt

Construction: Steel. Bolt drops by gravity when handle is lifted out of socket. Keeper installed in wood or concrete floor.

Application: For garage or warehouse doors.

Finish: Clear Zinc, Black Zinc, or 304 Stainless Steel, w/ #4 Brushed Finish.

Packaged: Boxed, with screws and keepers.

Part Number	Dimensions	Projection From Door	Weight (Ea.)
524 P21	5/8" x 18"	1-5/16"	3-1/2 lbs.
524 P23	3/4" x 24"	1-7/16"	5 lbs.

Additional Options:

0524PL Pad Lockable Keeper: Used to lock a cane bolt in the down position.

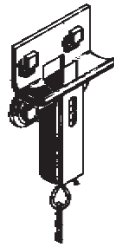
0524.00021SPD Cane Bolt with Hold Down Spring Assembly: Used in applications where a cane bolt needs to be held in the down position. **Also available for 524P23 cane bolt.*

0524.00021SPU Cane Bolt w/ Hold Up Spring Assembly: Used in applications where a cane bolt needs to be held in the up position. **Also available for 524P23 cane bolt.*

NO. 434 SPRING BOLTS AND KEEPER



No. 434p96 Bolt
With
No. 434p27 Keeper



No. 434p96 Bolt
With
No. 434p248 Keeper

No. 434 Spring Bolt with Keeper

Construction: Bolt and housing-malleable iron. Keeper, steel.

Application: For securing medium sized swing or slide-fold doors in the closed position. Available with two types of keepers to meet most door applications. Includes 36" steel chain with ring and clip. Suitable for stop side mounting on wood, composite or structural steel doors with 434 P248 and 434 P27 keepers.

Bolt size: 4-3/4" wide x 6" long x 1-7/8" projection. When ordering, specify keeper desired.

Finish: Painted.

Packed: Boxed, less bolts.

Weight: 3-1/4 lbs per bolt; Keeper weight: 434 P248 (2 lbs.) 434 P27 (1 lb.)

NO. 514 SPRING BOLTS

No. 514 P36 Spring Bolt

Application: For securing small sized swing or slide-fold doors in the closed position. Includes two keepers for hinge side or stop side mounting and 36" steel chain with ring and clip.

Bolt Size: 3-1/2" wide x 9" long x 1-1/2" projection.

Construction: Steel.

Finish: Painted.

Packed: Boxed with wood screws.

Weight: 2-3/4 lbs.



No. 514 P38 Spring Bolt

Application: For securing large sized swing or slide-fold doors in the closed position. Includes keeper for hinge side mounting only, and 60" steel chain with ring and clip.

Bolt Size: 4-1/4" wide x 9" long x 1-3/8" projection.

Construction: Steel.

Finish: Painted. Packed: Boxed with wood screws.

Weight: 6-1/2 lbs

Keeper Options (furnished at additional charge):

No. 434p27 Keeper: For surface, stop side mounting.

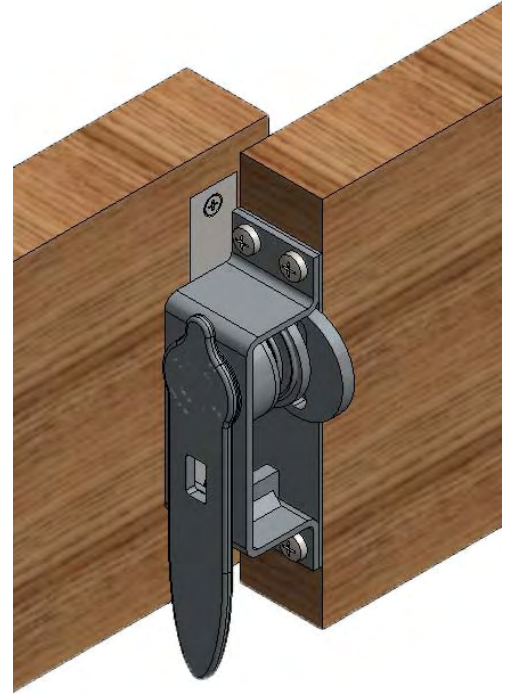
No. 514-FW Flush Keeper: For flush, stop side mounting.



No. 416 Titite Door Bolt

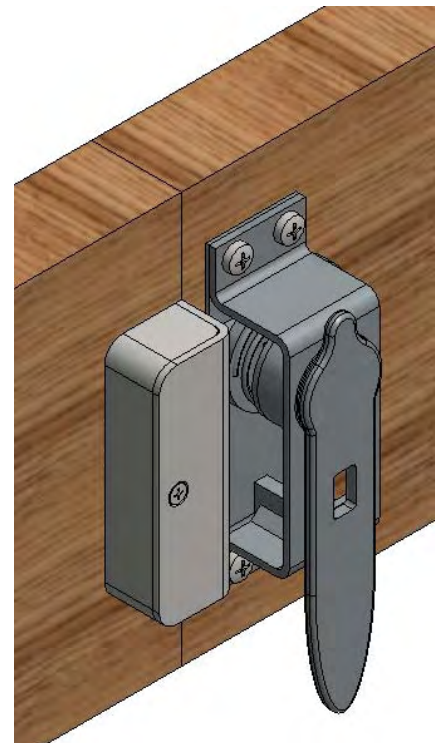
NO. 416-1 BI-PASSING APPLICATION

The 416-1 is intended for bi-passing doors with a minimum thickness of 1-3/4". The bi-passing doors do not move beyond the opening, instead one door moves behind the other allowing only one door to open at a time. The 416 bolt is installed on the edge of the door where the two doors overlap in the middle of the opening, while the "flush keeper" is installed into the face of the other door. When the handle on the bolt is turned, the hook captures the keeper and latches the two doors together. This locking system can only be operated on one side of the door. Padlocks and security screws may be used for additional security.



NO. 416-2 SINGLE/BI-PARTING SLIDING APPLICATION

The 416-2 is used for single sliding or bi-parting doors of any thickness. The 416 bolt is attached to the face of the door while the "surface keeper" is attached to the adjoining door or to the jamb (in the case of a single sliding door). When the handle on the lock is turned, the hook captures the keeper and latches the two doors together or latches the door and jamb together (in the case of a single sliding door). This locking system can only be operated on one side of the door. Padlocks and security screws may be used for additional security.



Heavy Duty Cremone Bolts

NO. 1028 P310 CREMONE BOLT

No. 1028 P310 Heavy Duty Cremone Bolt

Construction: Bolts, guides and handles-malleable iron. Rods-3/4" diameter steel tube.

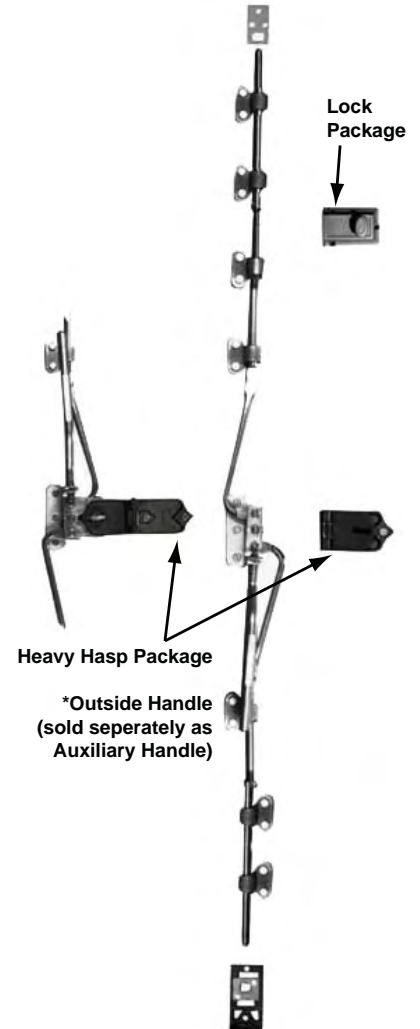
Application: For securing medium sized swing or slide-fold doors at the top and bottom with the movement of one lever handle. Connection of the rods of the lever handle is made with offset arms. The top and bottom bolts can only be retracted by movement of the lever handle. Models with exterior lever handle are designed for doors 1-3/4" to 3-1/4" thick.

Regular assembly is adjustable for openings up to 8'-0" high. Additional rod extension available for maximum 23'-0" high openings (see chart below). Lever handle located 48" from floor line, throw of bolt 2-1/2", projection from door 2-5/8". Includes top and bottom keeper.

Finish: US2C-zinc

Ordering data: Specify cremone bolt assembly based on door height and thickness (for external handle). Specify options if required.

HEAVY DUTY CREMONE BOLTS		Weight Per Unit
Part #	Description	
1028.00310.008	Heavy Duty Cremone Bolt: 6'-8" to 8'-0" Door Height	50 lb.
1028.00310.009	Heavy Duty Cremone Bolt: 8'-0" to 9'-6" Door Height	50 lb.
1028.00310.011	Heavy Duty Cremone Bolt: 9'-6" to 11'-0" Door Height	50 lb.
1028.00310.012	Heavy Duty Cremone Bolt: 11'-0" to 12'-6" Door Height	50 lb.
1028.00310.014	Heavy Duty Cremone Bolt: 12'-6" to 14'-0" Door Height	53 lb.
1028.00310.015	Heavy Duty Cremone Bolt: 14'-0" to 15'-6" Door Height	53 lb.
1028.00310.017	Heavy Duty Cremone Bolt: 15'-6" to 17'-0" Door Height	53 lb.
1028.00310.018	Heavy Duty Cremone Bolt: 17'-0" to 18'-6" Door Height	53 lb.
1028.00310.020	Heavy Duty Cremone Bolt: 18'-6" to 20'-0" Door Height	53 lb.
1028.00310.021	Heavy Duty Cremone Bolt: 20'-0" to 21'-6" Door Height	53 lb.
1028.00310.023	Heavy Duty Cremone Bolt: 21'-6" to 23'-0" Door Height	53 lb.
CREMONE BOLT ACCESSORIES		
1028.00330	Cremone Bolt Auxiliary Handle Package	
1028.00340	Cremone Bolt Key Lock/Knob Package w/ Auxiliary Handle Included	
1028.00350	Cremone Bolt Key Lock Both Sides Package w/ Auxiliary Handle Included	
1028.00360	Cremone Bolt Heavy Hasp Package	
1028.00370	Cremone Bolt 3'-0" Add-On Package	



Extra Heavy Duty Cremone Bolts

NO. 1028 P320 CREMONE BOLT

No. 1028 P320 Extra Heavy Duty Cremone Bolt

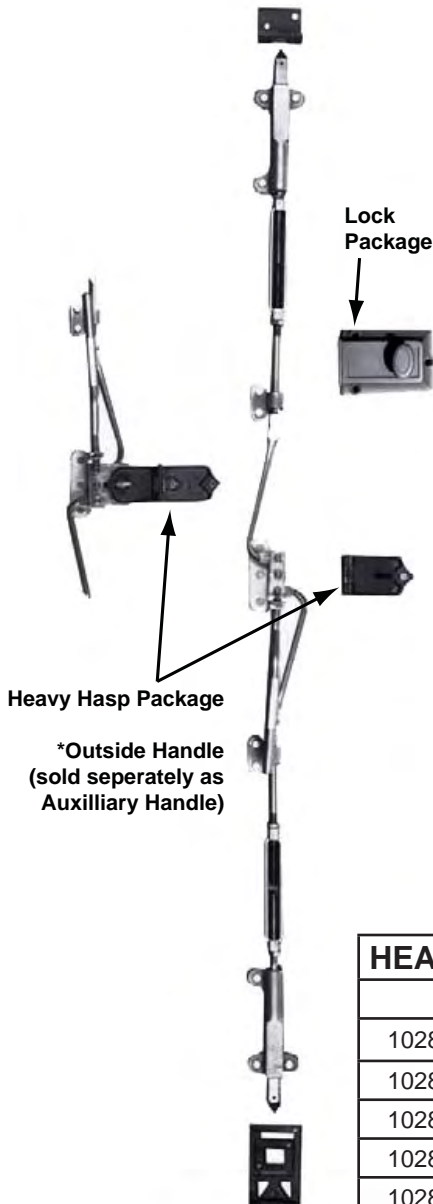
Construction: Guides and handles-malleable iron. Rods-3/4" diameter and bolts 1-1/4" sq. steel.

Application: For securing large sized industrial swing or slide-fold doors at the top and bottom with the movement of one lever handle. Connection of the rods of the lever handle is made with offset arms. The top and bottom bolts can only be retracted by movement of the lever handle. Models with exterior lever handle are designed for doors 2-1/2" to 4" thick.

Regular assembly is designed for a 8'-0" and 23'-6" high opening. Additional rod extensions available for maximum 23'-6" high openings (see chart below). For larger openings, consult factory. Lever handle located 48" from floor line, throw of bolt 3", projection from door 2-1/2". Includes keepers to meet most applications. Includes keepers to meet most applications.

Finish: US2C-zinc

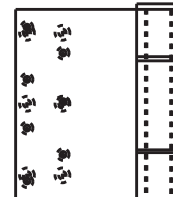
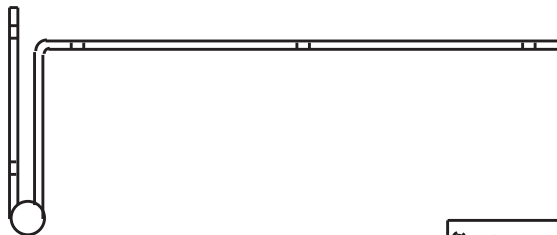
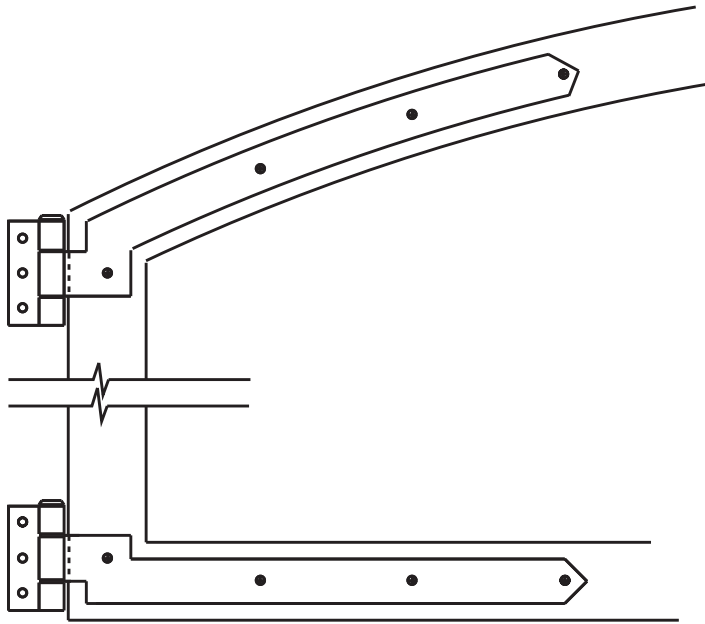
Ordering data: Specify cremone bolt assembly based on door height and thickness (for external handle). Specify options if required.



HEAVY DUTY CREMONE BOLTS		Weight Per Unit
Part #	Description	
1028.00320.009	Extra Heavy Duty Cremone Bolt: 8'-0" to 9'-0" Door Height	75 lb.
1028.00320.010	Extra Heavy Duty Cremone Bolt: 9'-0" to 10'-0" Door Height	75 lb.
1028.00320.012	Extra Heavy Duty Cremone Bolt: 10'-0" to 12'-6" Door Height	75 lb.
1028.00320.014	Extra Heavy Duty Cremone Bolt: 12'-6" to 14'-6" Door Height	78 lb.
1028.00320.017	Extra Heavy Duty Cremone Bolt: 14'-6" to 17'-6" Door Height	78 lb.
1028.00320.020	Extra Heavy Duty Cremone Bolt: 17'-6" to 20'-6" Door Height	81 lb.
1028.00320.023	Extra Heavy Duty Cremone Bolt: 20'-6" to 23'-6" Door Height	81 lb.
CREMONE BOLT ACCESSORIES		
1028.00330	Cremone Bolt Auxiliary Handle Package	
1028.00340	Cremone Bolt Key Lock/Knob Package w/ Auxiliary Handle Included	
1028.00350	Cremone Bolt Key Lock Both Sides Package w/ Auxiliary Handle Included	
1028.00360	Cremone Bolt Heavy Hasp Package	
1028.00370	Cremone Bolt 3'-0" Add-On Package	

Custom Hinges

Ask Crown about custom engineered hinges and pivots with special offsets, designs, capacities and applications.



Strap Hinge Selection Guide

Two lines of strap hinges to meet standard and industrial swing door applications.

9035, 9036, and 9047 Standard Strap Hinges

Designed for use on swinging wood or metal doors. The hinge pintles are made for surface mounting to wood, formed metal, or structural steel frames. These hinges are available in disc bearing or ball bearing (9047 disc bearing only), and are also available in several strap sizes and lengths to meet most normal door applications.

934 Industrial Strap Hinges

Designed for use on large swing wood or metal doors, or small doors which have a high frequency of operation each day. These hinges are available in disc bearing or ball bearing. Four different pintle styles are available to meet various jamb conditions.

*Custom Sizes are available.

HINGE SELECTION STEPS

- Select a pintle style** (9035, 9036, 934-B, etc.) in respect to desired pintle pin location, frame/jamb construction, and application (Ref. page 44 or 50 and pages 46-48 or 52-53).

Example: (Doors need to clear opening? Security an issue?)

- Type of Bearing:** Choose either of the following:

- Ball Bearing:** Manual or power operation with an expected usage of up to 20 cycles per day.
- Disc Bearing:** Manual operation with an expected usage of *less than* 20 cycles per day.

- Door Dimensions:**

- Width of the door in feet: _____ ft.



Ball Bearing Unit



Disc Bearing Unit

Example: (3'-4"=3.34 ft)

- Height of the door in feet: _____ ft.
- Weight of the door in pounds: _____ lbs.

- Calculate the "moment" value** of the hinge set for your application.

Go to Hinge Selection Chart on Page 45 or 51

- Locate the pintle style** ie. 9035, 9036 etc.

Width of door _____ **ft.** X **Weight of door** _____ **lbs.** = **"Moment"** _____

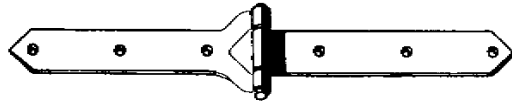
[from step 1] on the Hinge Selection Chart.

- Determine minimum number of hinges:** Using the door height [from step 3b] determine the minimum number of hinges required for your application.

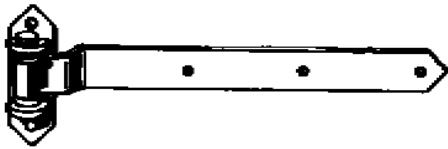
Standard Strap Hinges

No. 9035, 9036 & 9047 STANDARD STRAP HINGES

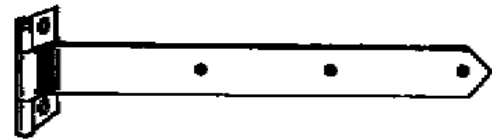
Designed for the average swing door application where the door size, door weight, and frequency of operation will be in the normal range. For complete information on particular standard strap hinges see pages 46 through 48. (See page 49 for back plates)



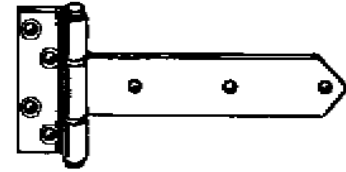
No. 9040



No. 9035

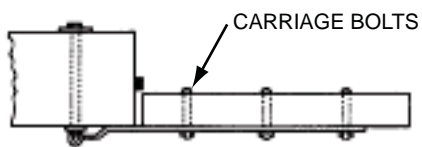


No. 9036

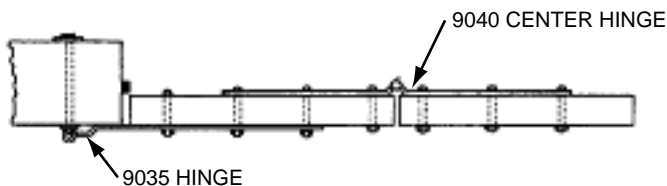


No. 9047

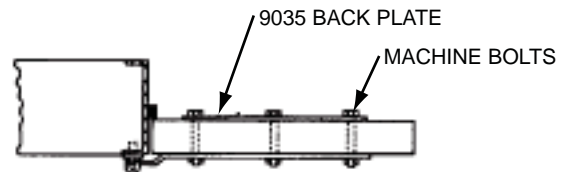
DOOR AND JAMB SECTIONS FOR STANDARD STRAP HINGES



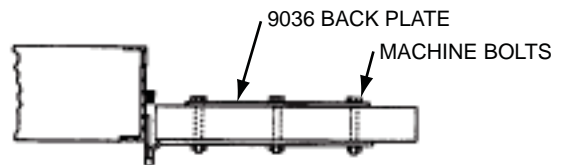
9035 HINGE-Wall Mounted



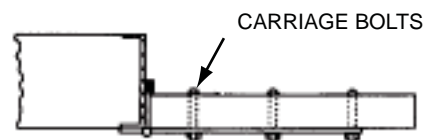
FOLDING w/ 9040 HINGE



9035 HINGE-Frame Mounted



9036 HINGE-Frame Mounted



9047 HINGE-Frame Mounted

Standard Hinge Selection Chart

*BB=Ball Bearing
*DB=Disc Bearing

9035	STANDARD & DECORATIVE	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type			
					19" BB	19" DB	30" BB	30" DB
					24" BB	24" DB	36" BB	36" DB
					"moment"	"moment"	"moment"	"moment"
4'	2	1104	954	1038	1491	1622		
8'	3	1657	2226	2422	3479	3785		
12'	4	2209	3498	3807	5466	5948		
16'	5	2761	4771	5191	7454	8111		
20'	6	3313	6043	6043	9442	10273		
24'	7	3866	7315	7959	11429	12436		

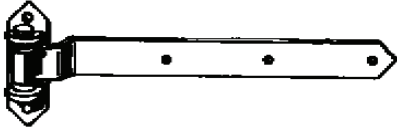
9036	STANDARD & DECORATIVE	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing	
					18" BB	
					18" DB	
					24" BB	36" BB
24" DB	36" DB	"moment"	"moment"			
4'	2	1104	842	1796		
8'	3	1657	1965	4192		
12'	4	2209	3088	6587		
16'	5	2761	4210	8982		
20'	6	3313	5333	11377		
24'	7	3866	6456	13772		

9047	STANDARD	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type		
					18" DB		
					24" DB		36" DB
					"moment"	Max weight	"moment"
4'	2	491	1907	767	3323		
8'	3	736	4450	1150	7754		
12'	4	982	6993	1534	12184		
16'	5	1227	9536	1917	16615		
20'	6	1473	12079	2301	21046		
24'	7	1718	14623	2684	25476		

9040	STANDARD	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type	
					15" P6 DB	15" P10 DB
					15" P7 BB	15" P13 BB
					"moment"	"moment"
4'	2	1104	1572	1759		
8'	3	1657	3668	4104		
12'	4	2209	5763	6450		
16'	5	2761	7859	8795		
20'	6	3313	9955	11140		
24'	7	3866	12051	13485		

Standard Strap Hinges

NO. 9035 STRAP HINGE



Construction: Steel, pintle pin secured with cotter pin, hinges available with disc bearings or ball-bearings, non-template.

Application: Full surface strap hinge with offset pintle, pintle can be mounted on opening frame or set back on face of wall to allow open doors to clear the doorway. See Door and Jamb sections on page 43.

Finish: Strap and pintle-Powder Coat Beige.

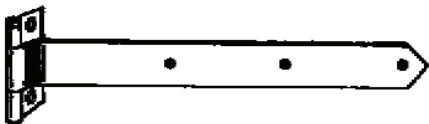
Optional: Powder Coat Black or Hot Dip Galvanized.

Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plates).

Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight (Ea.)
9035 P266	Disc	19" x 2-1/2" x 1/4"	1-3/4" x 8"	6 lbs.
9035 P267	Disc	24" x 2-1/2" x 1/4"	1-3/4" x 8"	7 lbs.
9035 P268	Disc	30" x 2-1/2" x 5/16"	1-3/4" x 8"	9 lbs.
9035 P269	Disc	36" x 2-1/2" x 5/16"	1-3/4" x 8"	10 lbs.
9035 P270	Ball	19" x 2-1/2" x 1/4"	1-3/4" x 8"	6 lbs.
9035 P271	Ball	24" x 2-1/2" x 1/4"	1-3/4" x 8"	7 lbs.
9035 P272	Ball	30" x 2-1/2" x 5/16"	1-3/4" x 8"	9 lbs.
9035 P273	Ball	36" x 2-1/2" x 5/16"	1-3/4" x 8"	10 lbs.

NO. 9036 STRAP HINGE



Construction: Steel, pintle pin non-removable hinges, available with disc bearings or ball-bearings, non-template.

Application: Half surface strap hinge with mortised pintle leaf for mounting to inside of frame, pintle pin located at edge of opening. See Door and Jamb sections on page 43.

Finish: Strap and pintle-Powder Coat Beige.

Optional: Powder Coat Black or Hot Dip Galvanized.

Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plates).

Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight (Ea.)
9036 P31	Disc	18" x 2-1/2" x 3/16"	2-3/4" x 6"	4-1/2 lbs.
9036 P32	Disc	24" x 2-1/2" x 3/16"	2-3/4" x 6"	5 lbs.
9036 P34	Disc	36" x 3" x 1/4"	2-11/16" x 7"	9 lbs.
9036 P37	Ball	18" x 2-1/2" x 3/16"	2-3/4" x 6"	4-3/4 lbs.
9036 P38	Ball	24" x 2-1/2" x 3/16"	2-3/4" x 6"	5-1/2 lbs.
9036 P40	Ball	36" x 3" x 1/4"	2-11/16" x 7"	9-1/2 lbs.

Standard Strap Hinges

NO. 9040 STRAP HINGE

Construction: Steel, pintle pin non-removable hinges, available with disc bearings or ball-bearings, non-template.

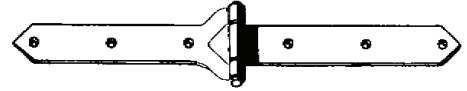
Application: Full surface strap hinge for use as a center hinge on slide-folding doors. Offset in hinge straps: 3/4" or 1-1/2" to allow hardware between doors. Jamb and Door section on page 43.

Finish: Strap and pintle-Powder Coat Beige.

Optional: Powder Coat Black or Hot Dip Galvanized.

Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners.



Part Number	Bearing Type	Offset	Strap Size	Pintle Size Width x Height	Weight (Ea.)
9040 P6	Disc	3/4"	1/4" x 2-1/2" x 15"	15" x 4-15/16"	5-1/2 lbs.
9040 P10	Disc	1-1/2"	1/4" x 2-1/2" x 15"	15" x 4-15/16"	6 lbs.
9040 P7	Ball	3/4"	1/4" x 2-1/2" x 15"	15" x 4-15/16"	5-3/4 lbs.
9040 P13	Ball	1-1/2"	1/4" x 2-1/2" x 15"	15" x 4-15/16"	7 lbs.

NO. 9047 STRAP HINGE

Construction: Steel, pintle pin non-removable hinges, available with disc bearings only, non template.

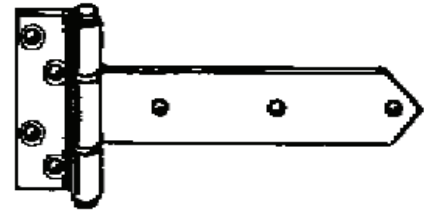
Application: Full surface strap hinge with butt type pintle leaf for mounting to face of opening frame, pintle pin located at edge of opening. See typical Jamb Section on page 43.

Finish: Strap and pintle-Powder Coat Beige.

Optional: Powder Coat Black or Hot Dip Galvanized.

Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plates).



Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight (Ea.)
9047 P9	Disc	18" x 2-1/2" x 3/16"	2-5/8" x 6"	3-1/2 lbs.
9047 P10	Disc	24" x 2-1/2" x 3/16"	2-5/8" x 6"	4-1/2 lbs.
9047 P12	Disc	36" x 3" x 1/4"	2-5/8" x 7"	9 lbs.

Decorative Strap Hinges and Back Plates

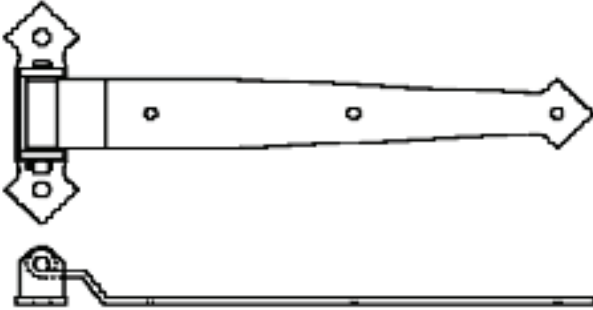
NO. 9035-DEC DECORATIVE STRAP HINGES

Construction: Steel, pintle pin secured with cotter pin, hinges available with disc bearings or ball-bearings, non-template.

Application: Full surface strap hinge with offset pintle, pintle can be mounted on opening frame or set back on face of wall to allow open doors to clear the doorway. See Door and Jamb sections on page 43.

Finish: Strap and pintle-Powder Coat Black. Optional: Hot Dip Galvanized. Pintle pin and bearings-black zinc plated.

Packed: Boxed, less fasteners.



Part Number	Bearing Type	Strap Size	Pintle Size Width x Height
9035-DEC19DB	Disc	19" x 2-1/2" x 1/4"	1-3/4" x 8"
9035-DEC24DB	Disc	24" x 2-1/2" x 1/4"	1-3/4" x 8"
9035-DEC30DB	Disc	30" x 2-1/2" x 5/16"	1-3/4" x 8"
9035-DEC36DB	Disc	36" x 2-1/2" x 5/16"	1-3/4" x 8"
9035-DEC19BB	Ball	19" x 2-1/2" x 1/4"	1-3/4" x 8"
9035-DEC24BB	Ball	24" x 2-1/2" x 1/4"	1-3/4" x 8"
9035-DEC30BB	Ball	30" x 2-1/2" x 5/16"	1-3/4" x 8"
9035-DEC36BB	Ball	36" x 2-1/2" x 5/16"	1-3/4" x 8"

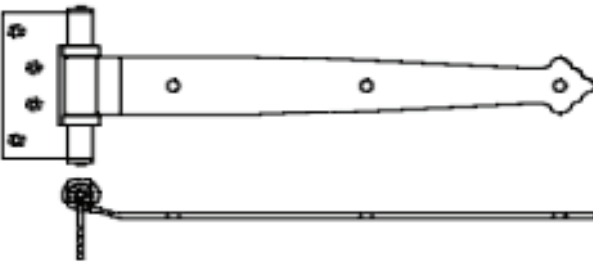
NO. 9036-DEC DECORATIVE STRAP HINGES

Construction: Steel, pintle pin non-removable hinges, available with disc bearings or ball-bearings, non-template.

Application: Half surface strap hinge with mortised pintle leaf for mounting to inside of frame, pintle pin located at edge of opening. See Door and Jamb sections on page 43.

Finish: Strap and pintle-Powder Coat Black. Optional: Hot Dip Galvanized. Pintle pin and bearings-black zinc plated.

Packed: Boxed, less fasteners.



Part Number	Bearing Type	Strap Size	Pintle Size Width x Height
9036-DEC18DB	Disc	18" x 2-1/2" x 3/16"	2-3/4" x 6"
9036-DEC24DB	Disc	24" x 2-1/2" x 3/16"	2-3/4" x 6"
9036-DEC36DB	Disc	36" x 3" x 1/4"	2-11/16" x 7"
9036-DEC18BB	Ball	18" x 2-1/2" x 3/16"	2-3/4" x 6"
9036-DEC24BB	Ball	24" x 2-1/2" x 3/16"	2-3/4" x 6"
9036-DEC36BB	Ball	36" x 3" x 1/4"	2-11/16" x 7"

NO. 9035-DEC DECORATIVE HINGE BACK PLATES

Application: Use back plates when through bolting decorative 9035 or 9036 strap hinges to a non-reinforced door (excluding hollow metal).

Available for 18", 19" 24" 30" and 36" strap lengths

Finish: Powder Coat Black. Optional: Hot Dip Galvanized.

Part Number	Size
9035-DEC19BP	16-1/2" x 2-1/2" x 3/16"
9035-DEC24BP	21-1/2" x 2-1/2" x 3/16"
9035-DEC30BP	27-1/4" x 2-1/2" x 1/4"
9035-DEC36BP	33-1/4" x 2-1/2" x 1/4"

Standard / Industrial Back Plates

Application: Use back plates when through bolting strap hinges to a non-reinforced door (hollow metal, tubular steel framed, mineral core, corrugated, etc.) The back plate distributes the force of the fasteners over a larger surface area thus preventing damage to the door.

Finish: Painted. Optional: Powder coated or Hot Dipped Galvanized.



**934, 9035, 9036, & 9040
HINGE BACK PLATE**

INDUSTRIAL NO. 934 P296 HINGE BACK PLATE

No. 934 Hinge Back Plate

Construction: 1/4" x 3" x 21-1/2" steel, hole centers to match all industrial 934 hinge straps.

Packed: Boxed, less fasteners.

Weight: 5 lbs.

STANDARD NO. 9035, 9036, & 9040 HINGE BACK PLATES

No. 9035, 9036, & 9040 Hinge Back Plate

Construction: Steel, hole centers to match strap hinge sizes as shown in chart below.

Available for 18", 19", 24", 30", & 36" strap lengths.

Packed: Boxed, less fasteners.

Hinge #	Back Plate #	Size	Weight
9035 P266 9035 P270	9035 P241	3/16" x 2-1/2" x 16-1/2"	2 lbs.
9035 P267 9035 P271	9035 P242	3/16" x 2-1/2" x 21-1/2"	3 lbs.
9035 P267 9035 P271	9035 P243	1/4" x 2-1/2" x 27-1/4"	5 lbs.
9035 P267 9035 P271	9035 P244	1/4" x 2-1/2" x 33-1/4"	6 lbs.
9035 P267 9035 P271	9036 P58	3/16" x 2-1/2" x 16"	2 lbs.
9035 P267 9035 P271	9036 P59	3/16" x 2-1/2" x 22"	3 lbs.
9035 P267 9035 P271	9036 P60	3/16" x 3" x 34"	6 lbs.
9047 P9	9036 P58	3/16" x 2-1/2" x 16"	2 lbs.
9047 P10	9036 P59	3/16" x 2-1/2" x 22"	3 lbs.
9047 P12	9036 P60	3/16" x 3" x 24"	6 lbs.
9047 P9	9036 P58	3/16" x 2-1/2" x 16"	2 lbs.
9040 P6 9040 P7 9040 P10 9040 P13	9040 P3045 *Note: 2 ea. back plates per hinge	1/4" x 2-1/2" x 12-13/16"	2-1/4 lbs.

***FOR DECORATIVE BACK PLATES SEE PAGE 48**

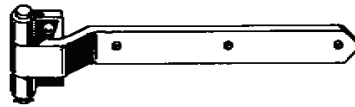
Industrial Strap Hinges

NO. 934 INDUSTRIAL STRAP HINGES

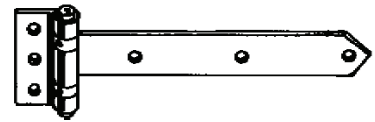
Designed for heavy duty swing door applications where the door size, door weight, and frequency of operation is greater than normal range. For complete information on the industrial strap hinges see pages 52-53. To determine appropriate hinge size reference the Strap Hinge Selection Guide on page 43 and the Industrial Hinge Selection Chart on page 51. (See page 49 for back plates).



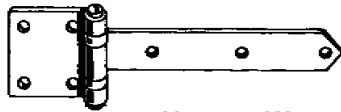
No. 934-B



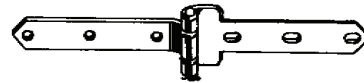
No. 934-F



No. 934-FW

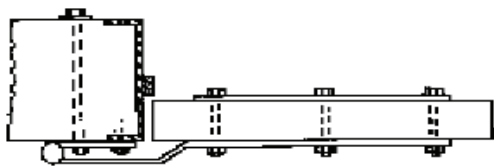


No. 934-W

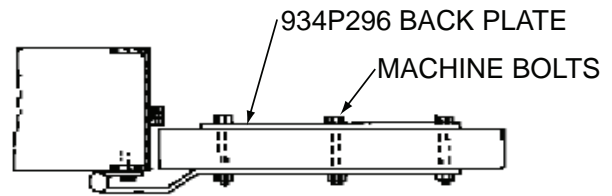


No. 934-K

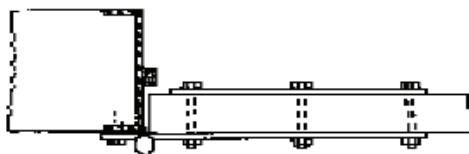
DOOR AND JAMB SECTIONS FOR INDUSTRIAL STRAP HINGES



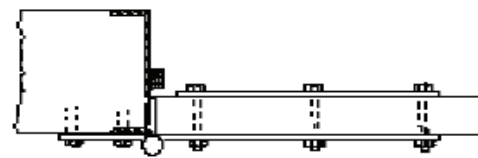
934-B Wall Mounted



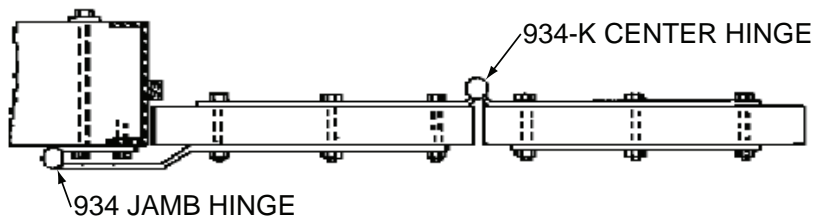
934-F Frame Mounted



934-FW Frame Mounted



934-W Wall Mounted



FOLDING w/ 934-K HINGE

Industrial Hinge Selection Chart

*BB=Ball Bearing

*DB=Disc Bearing

934-B	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type			
				P302 DB	P312 DB	P318 BB	P325 BB
				"moment"	"moment"	"moment"	"moment"
4'	2	1963	2695	4790	1902	3931	
8'	3	2945	6287	11178	4438	9171	
12'	4	3927	9980	17565	6974	14412	
16'	5	4909	13473	23952	9510	19653	
20'	6	5890	17066	30339	12046	24894	
24'	7	6872	20659	36727	14583	30135	

934-F	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type			
				P323 BB	P308 DB	P331 BB	P310 DB
				"moment"	"moment"	"moment"	"moment"
4'	2	1963	1902	2695	3931	4790	
8'	3	2945	4438	6287	9171	11178	
12'	4	3927	6974	9980	14412	17565	
16'	5	4909	9510	13473	19653	23952	
20'	6	5890	12046	17066	24894	30339	
24'	7	6872	14583	20659	30135	36727	

934-FW	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type			
				P288 BB	P280 DB	P292 BB	P284 DB
				"moment"	"moment"	"moment"	"moment"
4'	2	1963	3957	5276	7544	11360	
8'	3	2945	9233	12311	17603	26508	
12'	4	3927	14509	19346	27661	41655	
16'	5	4909	19785	26380	37720	56802	
20'	6	5890	25061	33415	47778	71950	
24'	7	6872	30337	40450	57837	87097	

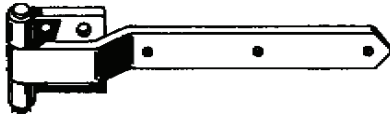
934-W	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type			
				P282 DB	P286 DB	P290 BB	P294 BB
				"moment"	"moment"	"moment"	"moment"
4'	2	1963	5276	11360	3957	7544	
8'	3	2945	12311	26508	9833	17603	
12'	4	3927	19346	41655	14509	27661	
16'	5	4909	26380	56802	19785	37720	
20'	6	5890	33415	71950	25061	47778	
24'	7	6872	40450	87097	30337	57837	

934-K	Max Door Height	# Hinges	Max weight	Hinge Size and Bearing Type			
				P304 DB	P320 BB	P314 DB	P328 BB
				"moment"	"moment"	"moment"	"moment"
4'	2	1963	1999	2718	4483	4715	
8'	3	2945	4664	6341	10459	11002	
12'	4	3927	7330	9965	16436	17288	
16'	5	4909	9995	13588	22413	23575	
20'	6	5890	12661	17211	28390	29861	
24'	7	6872	15326	20835	34367	36148	

Industrial Strap Hinges

The 934 Industrial Strap Hinges are available in five hinge styles and two bearing types to meet most swing door and slide folding door applications. To select the proper hinges to meet your door application, consult the Strap Hinge Selection Guide on page 43 and the Industrial Hinge Selection Chart on page 51.

NO. 934-B STRAP HINGE



Construction: Steel, pintle pin secured with cotter pin; hinges, available in two strap sizes with disc or ball bearings; pintle and strap have 9/16" dia. holes for fasteners, non-template.

Application: Full surface strap hinge with offset strap and pintle pin set back from edge of opening to allow door to fully clear opening when in the 90 degree open position; wide pintle for through bolting on masonry wall.

Finish: Strap and pintle-Powder Coat Beige.

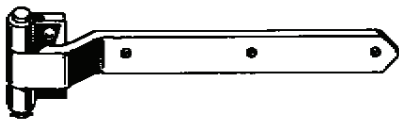
Optional: Powder Coat Black or Hot Dipped Galvanized.

Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plate).

Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight Each
934 P302	Disc	3/8" x 3" x 33-1/2"	9-1/2" x 7"	24 lbs.
934 P312	Disc	1/2" x 4" x 33-1/2"	9-1/2" x 9"	47 lbs.
934 P318	Ball	3/8" x 3" x 33-1/2"	9-1/2" x 8"	25 lbs.
934 P325	Ball	1/2" x 4" x 33-1/2"	9-1/2" x 10"	48 lbs.

NO. 934-F STRAP HINGE



Construction: Steel, pintle pin secured with cotter pin; hinges available in two strap sizes with disc or ball bearings; pintle and strap have 9/16" dia. holes for fasteners, non-template.

Application: Full surface strap hinge with offset strap and pintle pin set back from edge of opening to allow door to fully clear opening when in the 90 degree open position; narrow pintle for attachment to steel frame.

Finish: Strap and pintle-Powder Coat Beige.

Optional: Powder Coat Black or Hot Dipped Galvanized.

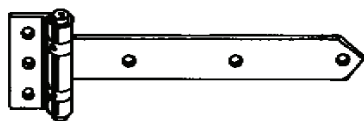
Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plate).

Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight Each
934 P308	Disc	3/8" x 3" x 27-1/2"	3-1/4" x 7"	23 lbs.
934 P310	Disc	1/2" x 4" x 27-1/2"	3-1/4" x 9"	46 lbs.
934 P323	Ball	3/8" x 3" x 27-1/2"	3-1/4" x 8"	24 lbs.
934 P331	Ball	1/2" x 4" x 27-1/2"	3-1/4" x 10"	47 lbs.

Industrial Strap Hinges

NO. 934-FW STRAP HINGE



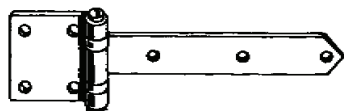
Construction: Steel, pintle pin secured with cotter pin; hinges available in two strap sizes with disc or ball bearings; pintle and strap have 9/16" dia. holes for fasteners, non-template. **Application:** Full surface strap hinge with pintle pin located at edge of opening; narrow pintle for attachment to steel frame.

Finish: Strap and pintle-Powder Coat Beige. Optional: Powder Coat Black or Hot Dipped Galvanized. Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plate).

Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight Each
934 P280	Disc	3/8"x3"x24"	3-1/4"x7"	20 lbs.
934 P284	Disc	1/2"x4"x24"	3-1/4"x9"	43 lbs.
934 P288	Ball	3/8"x3"x24"	3-1/4"x8"	21 lbs.
934 P292	Ball	1/2"x4"x24"	3-1/4"x10"	44 lbs.

NO. 934-W STRAP HINGE



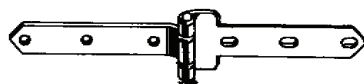
Construction: Steel, pintle pin secured with cotter pin; hinges available in two strap sizes with disc or ball bearings; pintle and strap have 9/16" dia. holes for fasteners, non-template. **Application:** Full surface strap hinge with pintle pin located at edge of opening; narrow pintle for attachment to steel frame.

Finish: Strap and pintle-Powder Coat Beige. Optional: Powder Coat Black or Hot Dipped Galvanized. Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plate).

Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight Each
934 P282	Disc	3/8"x3"x24"	9-1/2"x7"	21 lbs.
934 P286	Disc	1/2"x4"x24"	9-1/2"x9"	44 lbs.
934 P290	Ball	3/8"x3"x24"	9-1/2"x8"	22 lbs.
934 P294	Ball	1/2"x4"x24"	9-1/2"x10"	45 lbs.

NO. 934-K STRAP HINGE



Construction: Steel, pintle pin secured with cotter pin; hinges available in two strap sizes with disc or ball bearings; pintle has 9/16"x 1-1/4" slotted holes and strap has 9/16" dia. holes for fasteners, non-template.

Application: Full surface strap hinge with pintle pin located at edge of opening; narrow pintle for attachment to steel frame.

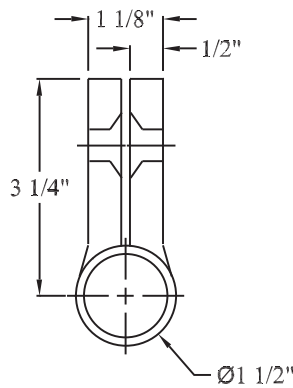
Finish: Strap and pintle-Powder Coat Beige. Optional: Powder Coat Black or Hot Dipped Galvanized. Pintle pin and bearings-zinc plated.

Packed: Boxed, less fasteners. (See page 49 for back plate).

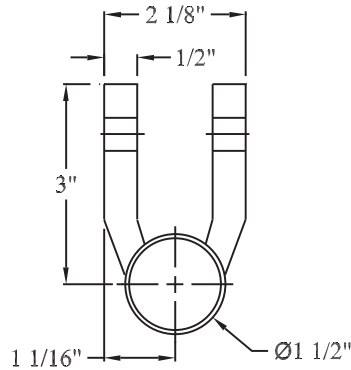
Part Number	Bearing Type	Strap Size	Pintle Size Width x Height	Weight Each
934 P304	Disc	3/8"x3"x24"	24"x6"	33 lbs.
934 P314	Disc	1/2"x4"x24"	24"x8"	59 lbs.
934 P320	Ball	3/8"x3"x24"	24"x8"	34 lbs.
934 P328	Ball	1/2"x4"x24"	24"x10"	60 lbs.

Precision Engineered High Capacity Hinges

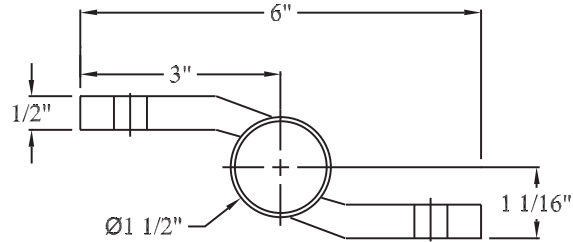
SERIES NO. CBI-8500



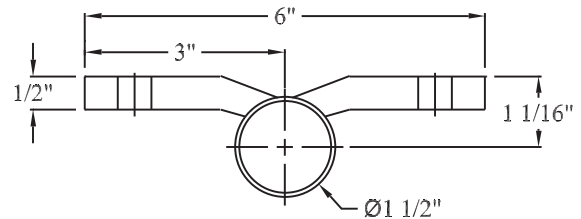
**CBI-8508 OR 8513
FULL MORTISE HINGE**



**CBI-8507 OR 8512
GAP MOUNTED HINGE**



**CBI-8506 OR 8511
HALF MORTISE**



**CBI-8505 OR 8510
FULL SURFACE HINGE**

STANDARDS:
#CBI HINGE PADS ARE 5" TALL
MATERIAL 1018 COLD ROLLED STEEL
PRIME PAINT FINISH

OPTIONS:
HOLES IN PADS
POLISHED OR SATIN CHROME PLATING OR
ZINC PLATING
304 STAINLESS STEEL MILL OR POLISHED
OR SATIN FINISH

Technical Data						
Hinge Model #	Thrust Capacity (door #)	Radial Capacity lbs.	Mounting Bolt Description	Recommended Torque	Approximate Hinge Weight	*Torque (lb-in) to Operate Door
CBI-8505 through CBI-8508	800 lbs.	320 lbs.	Specification 1/2" diameter Grade 5 Hex Head Mechanical Properties: Fu = 120,000 psi	625 lb-in	7 lbs.	50 lb-in
			Specification 3/8" diameter Grade 5 Socket Head Mechanical Properties: Fu = 160,00 psi	320 lb-in		
CBI-8510 through CBI-8513	2,000 lbs.	800 lbs.	Specification 1/2" diameter Grade 5 Socket Head Mechanical Properties: Fu = 120,000 psi	625 lb-in	7 lbs.	5 lb-in
			Specification 3/8" diameter Grade 5 Hex Head Mechanical Properties: Fu = 160,00 psi	320 lb-in		

Precision Engineered High Capacity Hinges

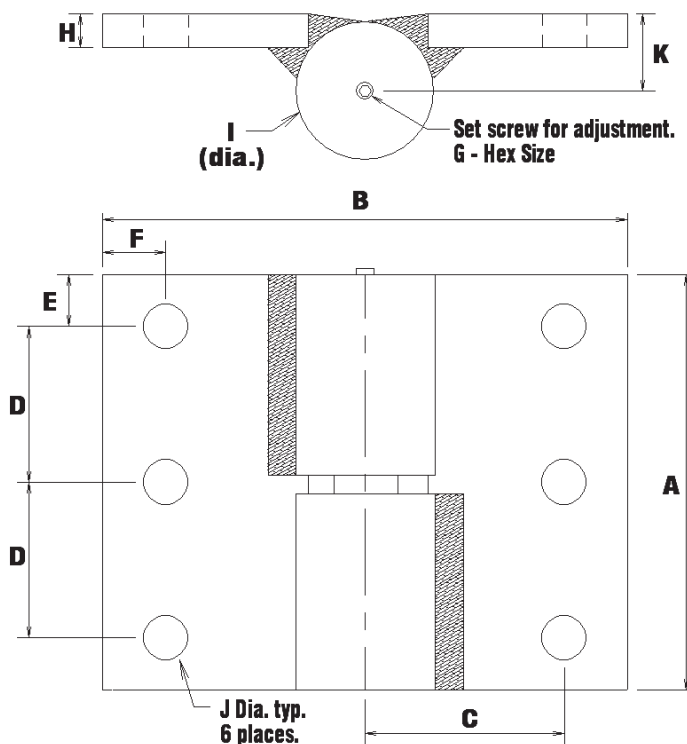
SERIES NO. CBW

For use on lead filled radiation doors, vault doors, heavy architectural gates or any door application where the hinges will be subjected to severe loads from a blast pressure, seismic event or high wind velocities.

The barrel and leaf sections of the hinge are fabricated from 1018 cold rolled steel and joined with welds of x-ray quality. The CBW Series are precision machined hinges featuring anti-friction needle roller bearings that support thrust and radial loads. A non-removable alloy steel hinge pin is hardened, precision ground and Armoloy® coated for corrosion protection. For severe environments oil seals are available to protect the hinge's internal workings. The results: a maintenance free, reliable hinge that will allow doors weighing several thousand pounds to be operated by the touch of a finger.

Std. Finishes: Prime Painted (USP)
 Optional: Polished Chrome (US26)
 Satin Chrome Plated(US26D)
 Polished Stainless Steel (US32)
 Satin Stainless Steel (US32D)
 Zinc Plated (2C)

Consult with factory before specifying.
***Door handing is required upon ordering.**



Hinge Model #	Thrust Cap. (Door Wt.) lbs.	Radial Cap. #	A	B (Ref)	C	D	E	F (Ref)	G	H	I	J	K	Mounting bolt Specification	Recommended Torque (lb-in)
														Mechanical Properties	
CBW500	1,000	400	5	4.25	1.38	1.75	0.75	0.75	3/16"	3/8"	1.00	13/32"	0.735	3/8" Dia. Grade 5 Fu=120,000 psi	250
CBW875	3,000	1,220	5	6.53	2.25	1.75	0.75	1.00	1/4"	1/2" Steel 3/4" S.S.	1.75	17/32" Steel 21/32" S.S.	0.926 Steel 1.25 S.S.	1/2" Dia. Grade 5 Fu=120,000 psi	625
CBW100	4,000	1,630	6	7.58	2.88	2.25	0.75	0.91	1/4"	1/2" Steel 1" S.S.	2.00	21/32"	1.115 Steel 1.688 S.S.	5/8" Dia. Grade 5 Fu=120,000 psi	1200
CBW125	8,000	3,330	8	8.00	2.88	2.75	1.25	1.13	3/8"	3/4"	2.50	25/32"	1.563	3/4" Dia. Socket Head Fu=170,000 psi	2600
CBW150	13,000	6,280	9	9.50	3.58	3.25	1.25	1.25	9/16"	1"	3.25	29/32"	2.033	7/8" Dia. Grade 5 Fu=170,000 psi	5400
CBW200*	20,000	8,800	12	10.75	4.13	3.50	2.50	1.25	3/4"	1"	3.75	1.03"	2.282	1" Dia. Grade 5 Fu=170,000 psi	7500

*Gusset plates exist on this model only

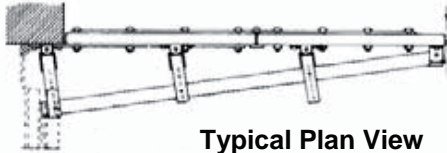
Note: Large Sizes Available
S.S.= Stainless Steel

Slide-Fold No 9035 Door Hardware

2-6 door sets

No. 9035 Slide-Fold Hardware Sets

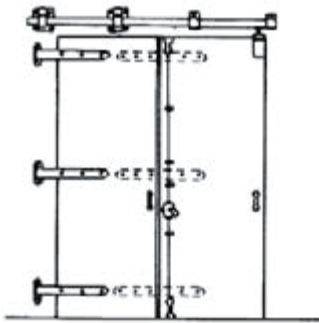
Designed for use on medium sized manually operated slide-fold doors. These hardware sets are available for door applications using (2) through (6) door sections supported by jamb hinges, center hinges, and hangers which operate in "lock-joint" track. Locking bolts and hinges are available in different combinations to meet most door applications.



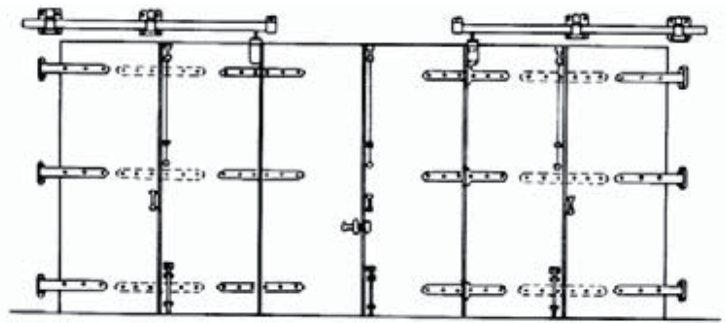
Typical Plan View

Door weight should not exceed 250 lbs. per section. Doors weighing more than 250 lbs. should use No. 934 slide-fold hardware on page 58. No. 9035 sets include: hangers, track, brackets, jamb hinges, center hinges, bow handles, locking bolts with keepers, bumper shoes, floor guides, and fasteners for attaching hardware to door. (Wall bolts are excluded). A heavy bar latch is supplied with those sets having a passage swing door (3, 4, 5, & 6 door applications).

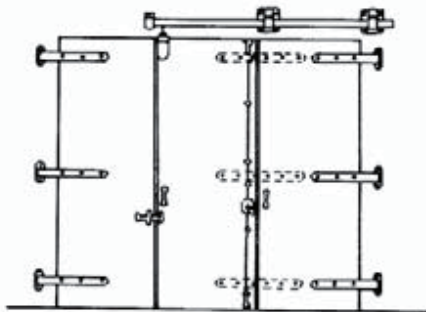
Best results are obtained by using door width of 3'-0" or less (4'-0" max on two door set).



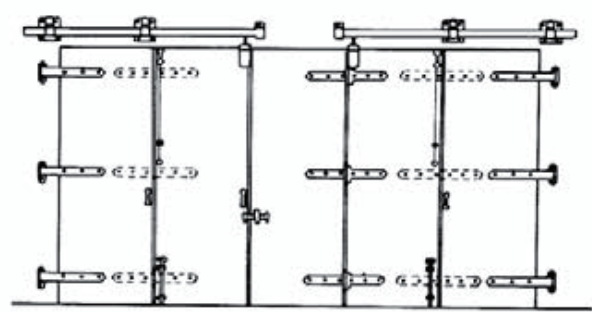
No. 9035-B2



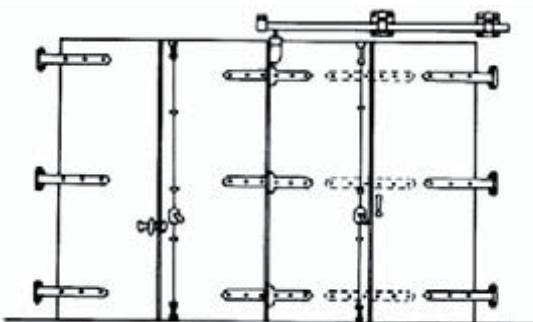
No. 9035-A6



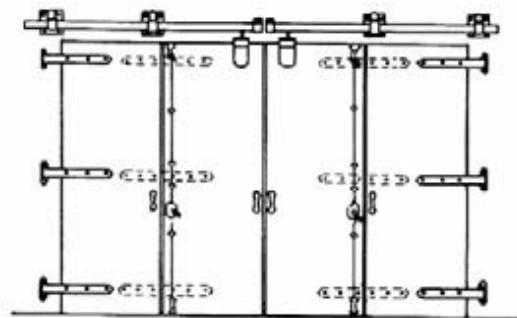
No. 9035-B3



No. 9035-A5



No. 9035-B4



No. 9035-B4-1/2

Slide-Fold No 9035 Door Hardware

Door Weight (lbs. per door)	Using Track No.	Including Bolts No.	2 Door Set For Openings up to 8 Ft. Wide			3 Door Set For Openings up to 9 Ft. Wide		
			Catalog No.	Head Room Req'd.	Hrdw. Weight (lbs.)	Catalog No.	Head Room Req'd.	Hrdw. Weight (lbs.)
Up to 250 lbs.	8	514-524 517	9035-A2-8	8-1/2"	129	9035-A3-8	8-1/2"	149 lbs.
			9035-B2-8		134	9035-B3-8		156 lbs.
Door Weight (lbs. per door)	Using Track No.	Including Bolts No.	4 Door Set For Openings up to 12 Ft. Wide			4 Door Set For Openings up to 12 Ft. Wide		
			Catalog No.	Head Room Req'd.	Hrdw. Weight (lbs.)	Catalog No.	Head Room Req'd.	Hrdw. Weight (lbs.)
Up to 250 lbs.	8	514-524 517	9035-A4-1/2-8	8-1/2"	238	9035-A4-8	8-1/2"	193 lbs.
			9035-B4-1/2-8		256	9035-B4-8		202 lbs.
Door Weight (lbs. per door)	Using Track No.	Including Bolts No.	5 Door Set For Openings up to 15 Ft. Wide			6 Door Set For Openings up to 18 Ft. Wide		
			Catalog No.	Head Room Req'd.	Hrdw. Weight (lbs.)	Catalog No.	Head Room Req'd.	Hrdw. Weight (lbs.)
Up to 250 lbs.	8	514-524 517	9035-A5-8	11-1/2"	285	9035-A6-8	11-1/2"	295 lbs.
			9035-B5-8		297	9035-B6-8		313 lbs.

OUT OPENING DOORS

Door applications which require the doors to open on the exterior side must be designated with an "O" as a prefix to the catalog number. Specific parts are used on out opening doors to provide clearance to allow the doors to fully clear the opening.

LOCKING BOLT COMBINATIONS

Defined by the catalog number in the above chart.

- "A" combination uses No 514 top bolts and No.524 cane bolts. (For more information reference page 38.)
- "B" combination uses No. 1028 P310 cremone bolts. (For more information reference page 40.)

HINGE COMBINATIONS 9035 JAMB HINGES AND 9040 CENTER HINGES

- HC4: all hinges use disc bearings. Expected usage of up to 20 cycles each day.
- HC5: all hinges use ball bearings. Expected usage in excess of 20 cycles each day.

ORDERING INSTRUCTIONS:

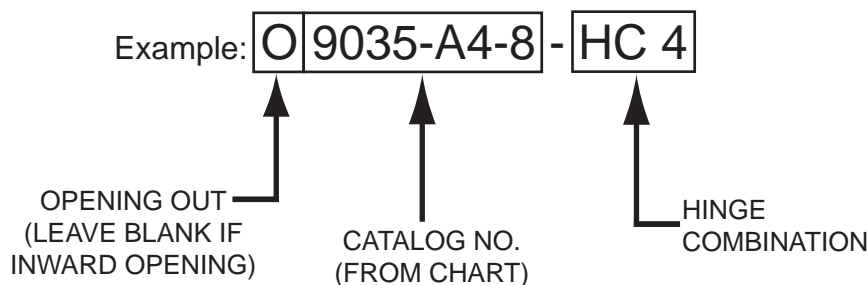
1. Please state the number of sets desired and the catalog number as selected from the chart above.
2. Add the prefix "O" to the catalog number if doors are to open outward.
3. Select the hinge combination desired.
4. Provide:

The opening size (width x height): _____

Door thickness: _____

Door construction: _____

This will ensure that the proper quantity of hardware is furnished.



Slide-Fold No 9035 Door Hardware Parts

HANGERS



No. 9035 P226 Hanger Assembly
(For OUT Opening Doors)

No. 9035 P225 Hanger Assembly
(For IN Opening Doors)



TRACKS AND BRACKETS



No. 8 Track



No. 9035 P185
Center Bracket

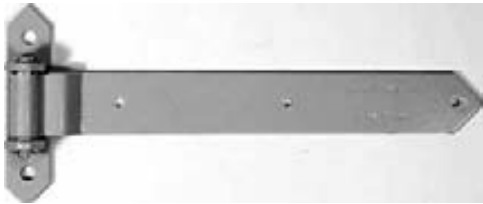


No. 9035 P100
Intermediate Bracket

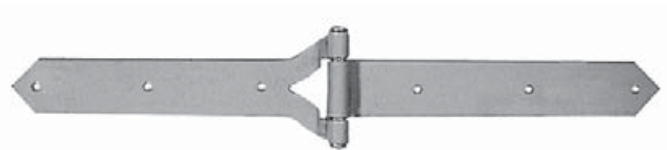


No. 9035 P105
End Bracket

HINGES



No. 9035
Jamb Hinge



No. 9040
Center Hinge

MISCELLANEOUS



No. 771 P3
Floor Guide



No. 119 P3
Door Holder



No. 71 P1
Bow Handle



No. 225 P45
Latch

Slide-Fold No 9035 Hardware Parts

Description	Hardware sets Using #8 Track For Doors Weighting Up to 250 Lbs. Each		
	Catalog No.	Shipping Wt. Ea.	
Hangers for in opening doors	9035 P225	9 lb.	
*Hangers for <u>out opening doors</u>	9035 P226	9 lb.	
† Track	#8	4 lb./ft.	
Center Bracket	9035 P185	5 lb.	
Intermediate Bracket	9035 P100	11 lb.	
End Bracket	9035 P105	16 lb.	
Jamb Hinge -- Disc Bearing			
	-19"	9035 P266	6 lb.
	-24"	9035 P267	7 lb.
	-30"	9035 P268	9 lb.
	-36"	9035 P269	10 lb.
Jamb Hinge -- Ball Bearing			
	-19"	9035 P213	6 lb.
	-24"	9035 P214	7 lb.
	-30"	9035 P215	9 lb.
	-36"	9035 P216	10 lb.
Center Hinges -- Disc Bearing	-15"	9040 P6	5-1/2 lb.
* (1-1/2 Off.) <u>out opening doors</u>	-15"	9040 P10	6 lb.
Center Hinges -- Ball Bearing	-15"	9040 P7	5-3/4 lb.
* (1-1/2 Off.) <u>out opening doors</u>	-15"	9040 P13	7 lb.
* Bow Handle <u>out opening doors</u>		81 P1	1/2 lb.
Bow Handle		81 P2	1 lb.
Center Floor Guide		771 P3	7-3/4 lb.
Bumper Shoes (per pair)		102 P136	1/2 lb.
Door Holder		119 P3	1/4 lb.
Latch		225 P43	2-3/4 lb.
Cane Bolt		524 P21	3-1/2 lb.
Top Bolt		434 P96	2-3/4 lb.
Cremone Bolt		1028 P310	11 lb.

* Use these parts on out opening sets.

† Track length determined by opening width.

Slide-Fold No. 934 Door Hardware For Manual and Power Operation

NO. 934 SLIDE-FOLD HARDWARE SETS

No. 934 Slide-Fold Hardware Sets are used on large manually operated and power operated door applications which require the door panels to slide-fold to each jamb leaving a clear opening. The 934 slide-fold hardware is available in two sizes for total door weights up to 5,000 lbs. See capacity chart below.

Catalog No.	Max. Total Weight for a Set of 4 Doors
934 x 10 Hardware	Up to 2,000 lbs.
934 x 25 Hardware	2,000 to 5,000 lbs.

Hardware sets consist of: Hangers, tracks, brackets, jamb hinges, center hinges, back plates, bow handles, center floor guide, top bolts and cane bolts.

Note: Top bolts and cane bolts are used on manually operated sets only.

Optional Equipment (Extra Cost)

Weatherstrip: No. 216 Astragal is used on the vertical door edges at the center of the doorway (page 64). No. 216 Sweep Weatherstrip is used along the bottom of the doors (page 65).

No. 1028 P320 Cremone Bolt: Cremone bolts can be used in place of cane and spring bolts (pages 40 and 41).

Disc bearing hinges are recommended for manually operated doors. **Ball bearing hinges** should be used on all power operated doors and any manually operated doors which will have a high frequency of use.

Hinge Requirements:

Doors up to 12'-0" tall require 4 hinges.

Doors 12'-1" to 16'-0" tall require 5 hinges.

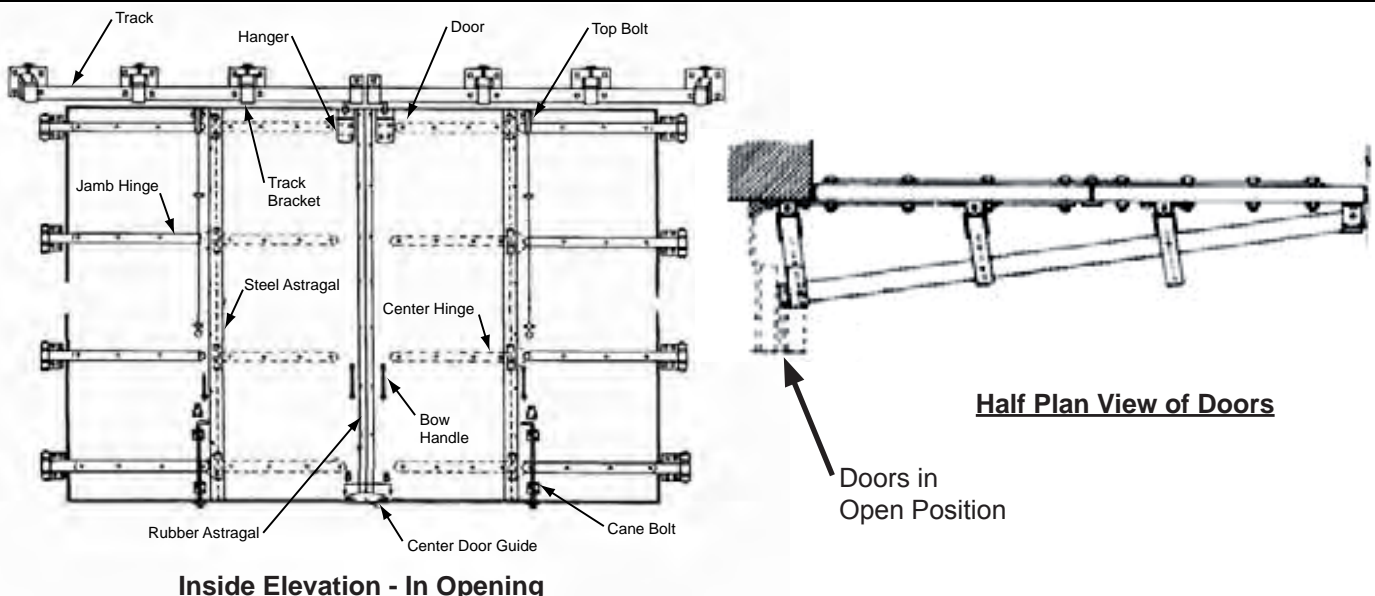
Doors 16'-1" to 20'-0" tall require 6 hinges.

Sets of Hinges per Hardware Set	934x10 Hardware Shipping Weight	934x25 Hardware Shipping Weight
3 Sets	725 lbs.	825 lbs.
4 Sets	850 lbs.	950 lbs.
5 Sets	1,000 lbs.	1,110 lbs.
6 Sets	1,175 lbs.	1,275 lbs.

Directions for Ordering, Indicate Following:

- A. Width and Height of opening.
- B. Width, Height and Thickness of doors.
- C. Door and Jamb Construction.
- D. Jamb and Headroom conditions. Provide sketch or drawing showing available clearances.
- E. Specify if doors are swinging "In" or "Out".

MANUAL APPLICATION SHOWN



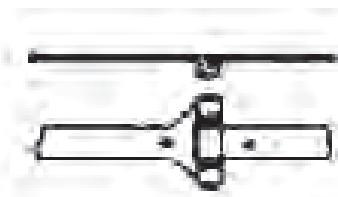
Slide-Fold No. 934 Hardware Parts



934x25-P28
Hanger



934x25-P24
Hanger



934-K
Ball Bearing Center Hinge



934-B
Ball Bearing Jamb Hinge



771 P3
Floor Guide



End / Intermediate
Bracket

Description	934 x 10 Hardware For Doors Weighing Up to 500 lbs. Each		934 x 25 Hardware For Doors Weighing Up to 1,250 lbs. Each	
	Catalog No.	Shipping Wt. /Ea.	Catalog No.	Shipping Wt. /Ea.
Hangers	934x10-P24	12 lbs.	934x25-P28	16 lbs.
† Track	#10	5-3/4 lb./ft.	#25	8 lb./ft
Center Brkt.	934x10-P199	6 lbs.	934x25-P229	15 lbs.
Intermediate Brkt.	934x10-P114	16 lb.	934x25-P230	20 lbs.
End Brkt.	934x10-P119	20 lbs.	934x25-P231	25 lbs.
* Jamb Hinges Ball or Disc Bearing	934 "B"	Varies	934 "B"	Varies
	934 "F"	Varies	934 "W"	Varies
	934 "W"	Varies	934 "K"	Varies
* Center Hinges Ball or Disc Bearing	934 "K"	Varies	934 "K"	Varies
Bow Handle	191 P1	2-3/4 lbs.	191 P1	2-3/4 lbs.
Center Floor Guide	771 P3	6-1/2 lbs.	771 P3	6-1/2 lbs.
† † Top Bolt	434 P96	7 lbs.	434 P96	7 lbs.
† † Cane Bolt	524 P23	4-1/2 lbs.	524 P23	4-1/2 lbs.
OPTIONAL EQUIPMENT				
Neoprene Astragal	216	1-1/4 lb./ft.	216	1-1/4 lb./ft.
Weatherstrip	216	1-1/4 lb./ft.	216	1-1/4 lb./ft.
† † Cremone Bolt	1028 P320	25 lbs.	1017	28 lbs.

† Track length determined by opening width.

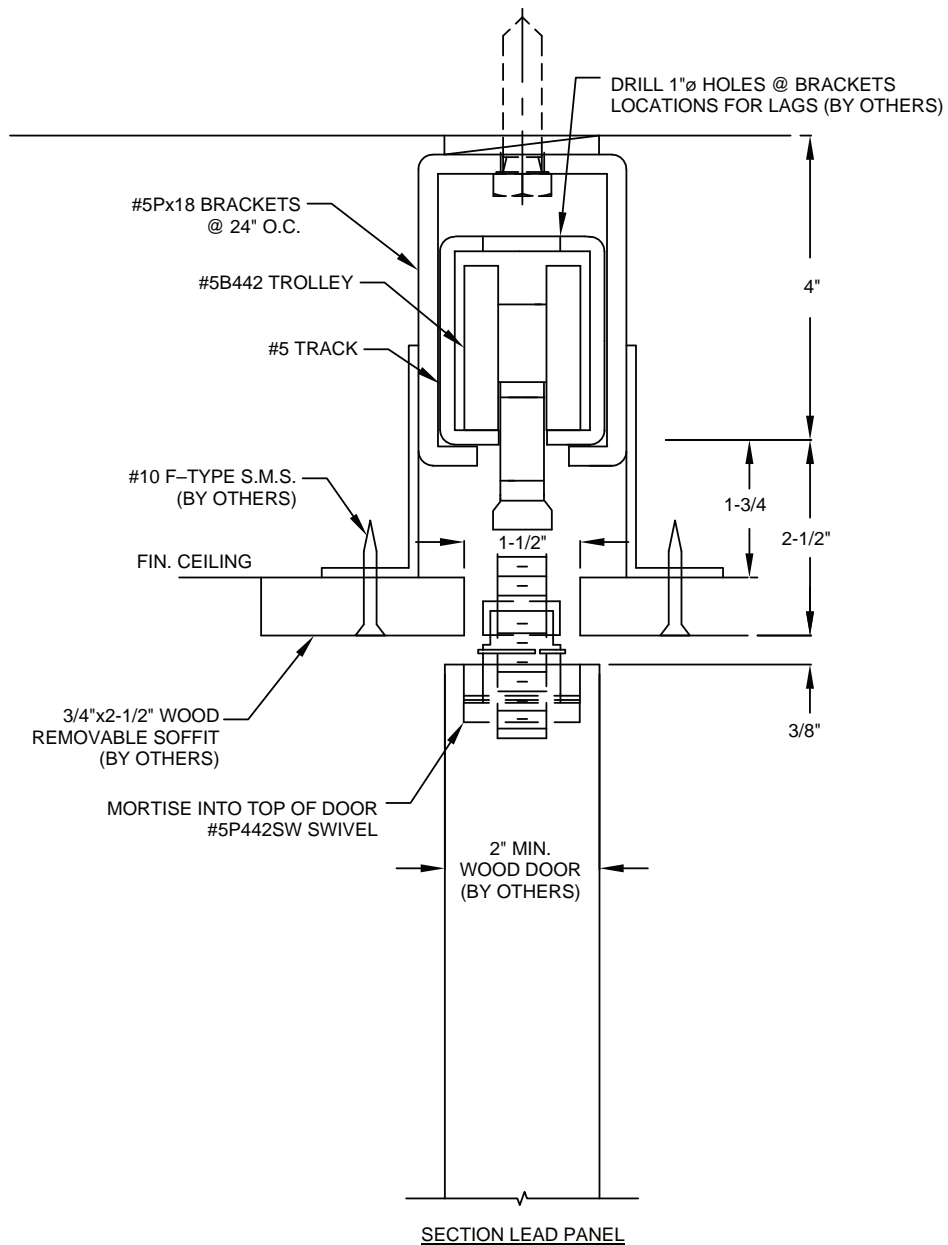
* Hinge size determined by door weight and size.

† † For manually operated doors only.

Concealed Bi-Folding Hardware Sets

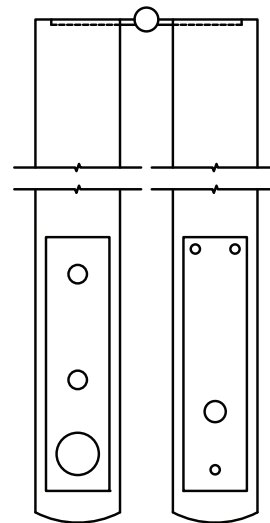
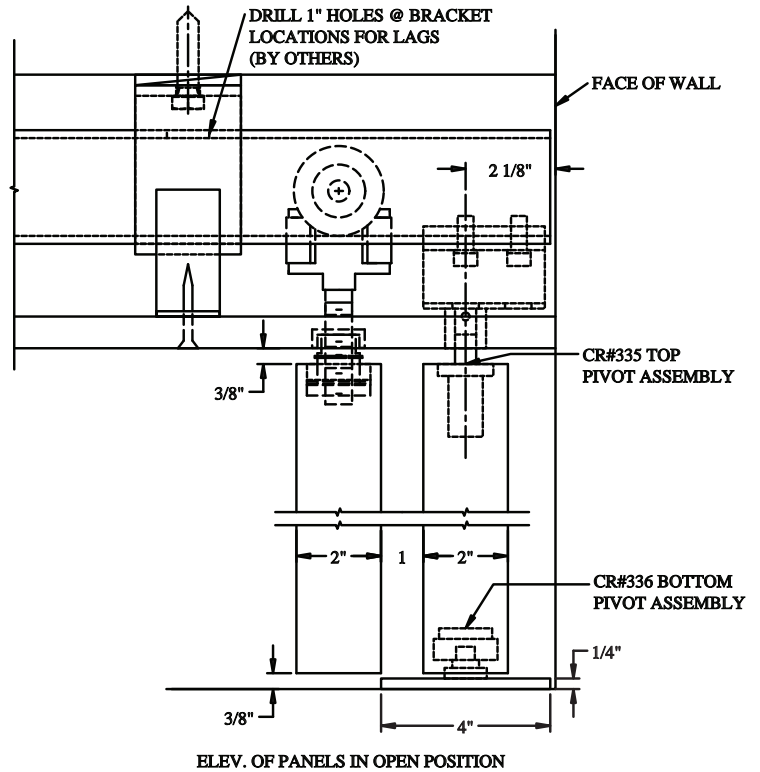
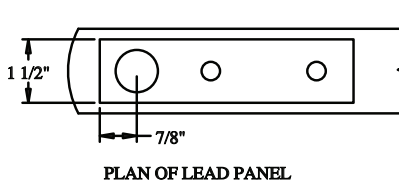
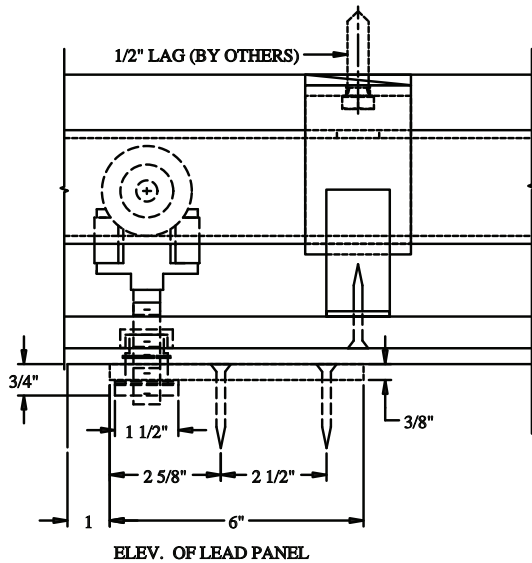
No. 5B237 CONCEALED BI-FOLD HARDWARE SET

Bi-Fold hardware set for up to 16' wide openings. This hardware is concealed in a soffit or a ceiling. This hardware does not use floor track. Doors must be a minimum of 2" thick.



Concealed Bi-Folding Hardware Sets

No. 5B237 CONCEALED BI-FOLD HARDWARE SET



No. 216 Astragal Weatherstrip

No. 216 Astragal Weatherstrip

Application: For use on the meeting vertical edges of swinging or slide-folding doors from 1-3/4" to 2-1/2" thick or specified. Weatherstrip assembly includes: cloth reinforced neoprene and galvanized steel retaining strips for one door.

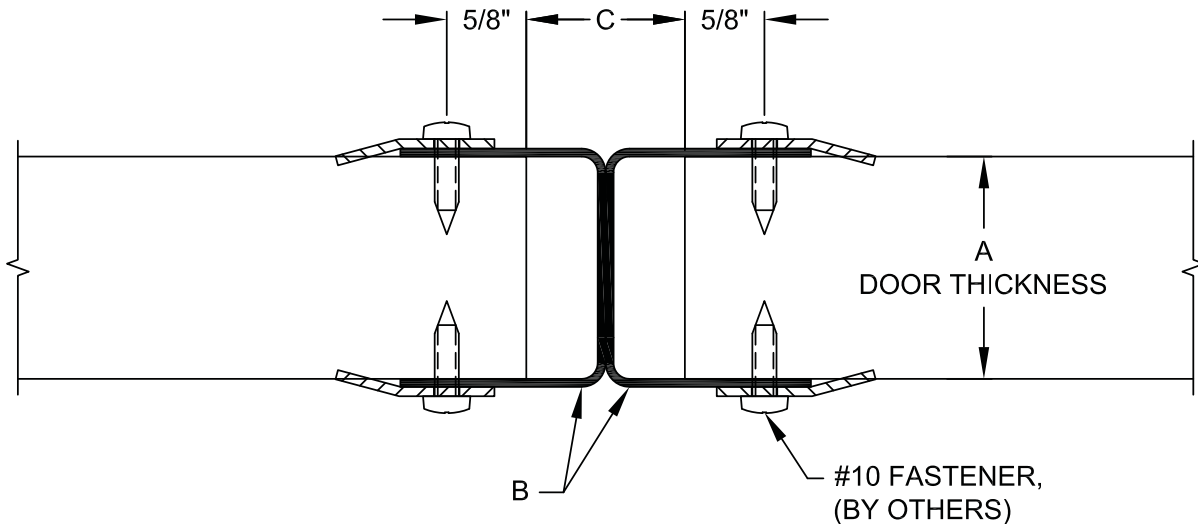
Finish: Painted or Galvanized steel retaining strip.

Ordering data: Specify part number for proper door width or length required.

Note: Neoprene Size can be specified.



No. 216 Astragal Weatherstrip
for vertical edge of doors



Catalog Number	Door Thickness	Neoprene Size	Door Clearance	Finish
	A	B	C	
216-P28	1-3/4"	1/16"x 5-3/8" x 8'-0"	1-3/4"	Ptd.
216-P29	1-3/4"	1/16"x 5-3/8" x 10'-0"	1-3/4"	Ptd.
216-P30	1-3/4"	1/16"x 5-3/8" x 12'-0"	1-3/4"	Ptd.
216-P32	2-1/2"	1/16"x 6-3/8" x 8'-0"	2-1/4"	Ptd.
216-P33	2-1/2"	1/16"x 6-3/8" x 10'-0"	2-1/4"	Ptd.
216-P34	2-1/2"	1/16"x 6-3/8" x 12'-0"	2-1/4"	Ptd.
216-G28	1-3/4"	1/16"x 5-3/8" x 8'-0"	1-3/4"	Galv.
216-G29	1-3/4"	1/16"x 5-3/8" x 10'-0"	1-3/4"	Galv.
216-G30	1-3/4"	1/16"x 5-3/8" x 12'-0"	1-3/4"	Galv.
216-G32	2-1/2"	1/16"x 6-3/8" x 8'-0"	2-1/4"	Galv.
216-G33	2-1/2"	1/16"x 6-3/8" x 10'-0"	2-1/4"	Galv.
216-G34	2-1/2"	1/16"x 6-3/8" x 12'-0"	2-1/4"	Galv.

No. 216 Sweep Weatherstrip

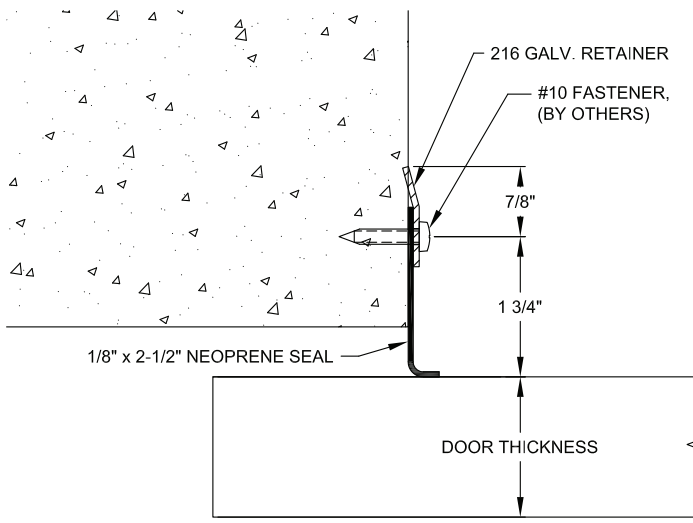
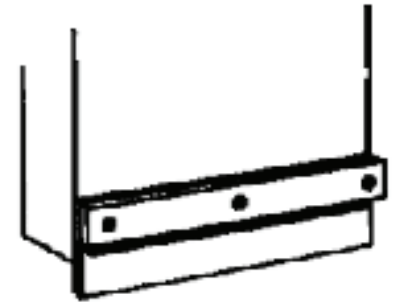
No. 216 Sweep Weatherstrip

Application: Use on the bottom edge of doors, frame jambs, and frame lintels.
Weather strip assembly includes: cloth reinforced neoprene and steel retaining strip.

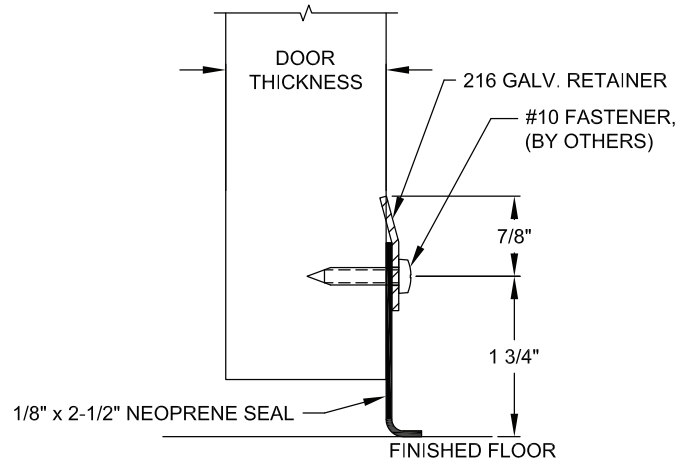
Finish: Painted or Galvanized steel retaining strip.

Ordering data: Specify part number for proper door width or length required.

Note: Neoprene Size can be specified.



Jamb/Lintel Detail



Sill Detail

Catalog Number	Door Thickness	Neoprene Size	Finish
216-P52	All	1/16" x 2-1/2" x 6'-0"	Ptd.
216-P36	All	1/16" x 2-1/2" x 8'-0"	Ptd.
216-P37	All	1/16" x 2-1/2" x 10'-0"	Ptd.
216-P38	All	1/16" x 2-1/2" x 12'-0"	Ptd.
216-G52	All	1/16" x 2-1/2" x 6'-0"	Galv.
216-G36	All	1/16" x 2-1/2" x 8'-0"	Galv.
216-G37	All	1/16" x 2-1/2" x 10'-0"	Galv.
216-G38	All	1/16" x 2-1/2" x 12'-0"	Galv.

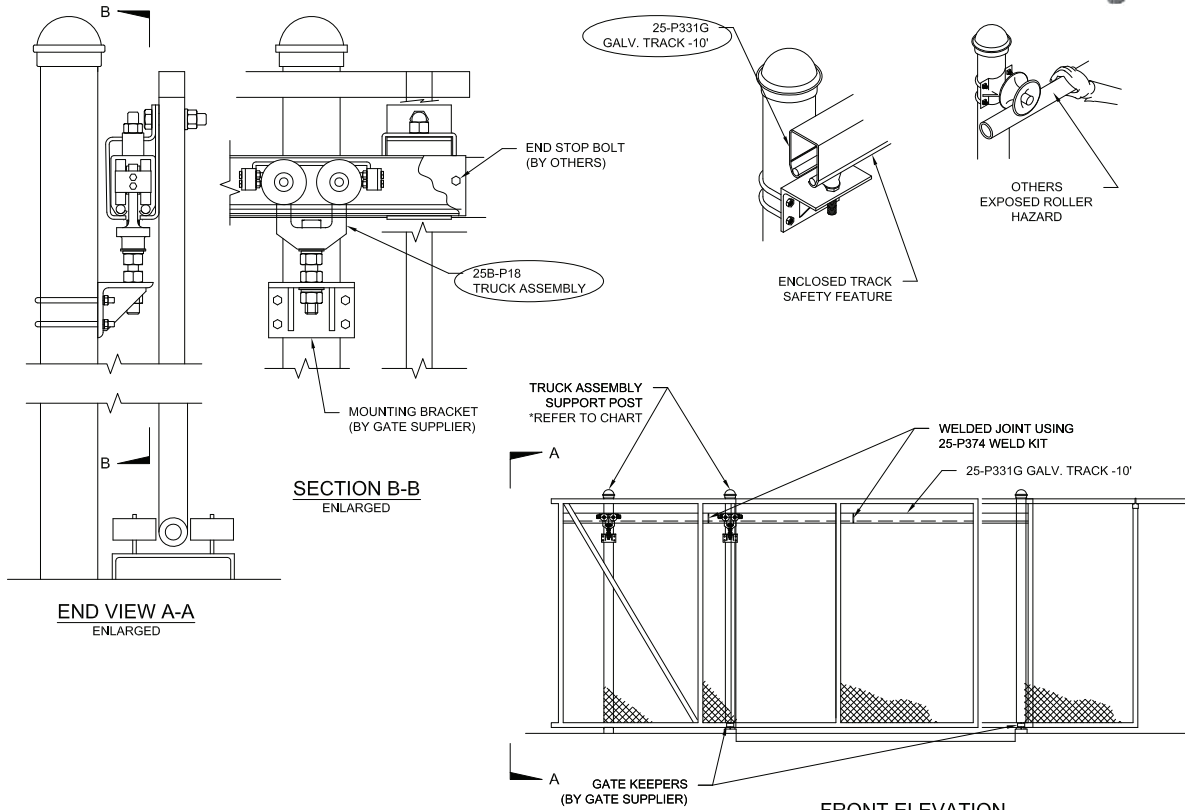
#25 CANTILEVER HARDWARE

NO. 25B-P18 ANTI KICKUP TRUCK ASSEMBLY

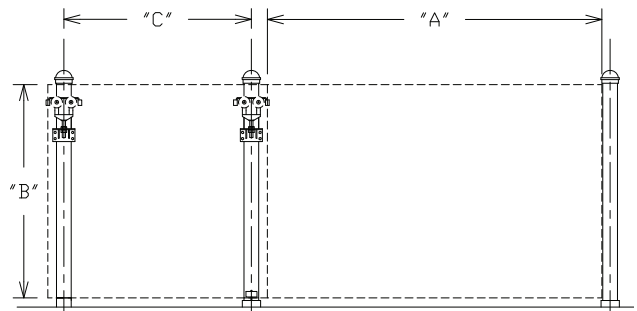
Use: For manually operated or power operated sliding doors weighing up to **2500 lbs.** per pair of trucks. Larger wheels and guides prevent kickup.

Construction: 3" diameter machined steel wheels, Delrin Guides. Frame, malleable iron, ball bearings, lateral and vertical adjustment. Pendant Bolt: 7/8" diameter steel.

Finish: Zinc plated trucks. **Packed:** Boxed **Weight:** 25 lbs. per pair.



(A) CLEAR OPENING	(B) GATE HEIGHT	(MAX) WEIGHT	TRACK REQ'D.		(C) CENTER DISTANCE B/T SUPPORT POSTS
			LENGTH OF TRACK	WEIGHT OF TRACK	
5'-0"	6' to 8'	760 lbs.	8'-6"	68 lbs.	2'-6"
6'-0"	6' to 8'	750 lbs.	10'-0"	80 lbs.	3'-0"
7'-0"	6' to 8'	740 lbs.	11'-6"	92 lbs.	3'-6"
8'-0"	6' to 8'	730 lbs.	13'-6"	104 lbs.	4'-0"
9'-0"	6' to 8'	720 lbs.	14'-6"	116 lbs.	4'-6"
10'-0"	6' to 8'	700 lbs.	16'-0"	128 lbs.	2'-6"
11'-0"	6' to 8'	690 lbs.	17'-6"	140 lbs.	5'-6"
12'-0"	6' to 8'	680 lbs.	19'-0"	152 lbs.	6'-0"
13'-0"	6' to 8'	670 lbs.	20'-6"	164 lbs.	6'-0"
14'-0"	6' to 8'	660 lbs.	22'-0"	176 lbs.	6'-6"
15'-0"	6' to 8'	650 lbs.	23'-6"	188 lbs.	7'-6"
16'-0"	6'	630 lbs.	25'-0"	200 lbs.	8'-0"
17'-0"	6'	620 lbs.	26'-6"	212 lbs.	8'-6"
18'-0"	6'	610 lbs.	28'-6"	224 lbs.	9'-0"
19'-0"	6'	610 lbs.	28'-6"	236 lbs.	9'-6"
20'-0"	6'	610 lbs.	31'-6"	252 lbs.	10'-6"



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**C R O W N
INDUSTRIAL**

213 Michelle Court
So. San Francisco, CA 94080-6202

Phone: (650) 952-5150

Fax: (650) 873-1495

Website: www.crown-industrial.com

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