



Commercial Hinges

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**PLAIN BEARING
STANDARD WEIGHT**



**2 BALL BEARING
STANDARD WEIGHT**



**4 BALL BEARING
HEAVY WEIGHT**



**SPRING HINGE
STANDARD WEIGHT**



**POWER TRANSFER
STANDARD OR HEAVY
WEIGHT**

Features

**NON-REMOVABLE
PIN (NRP):**

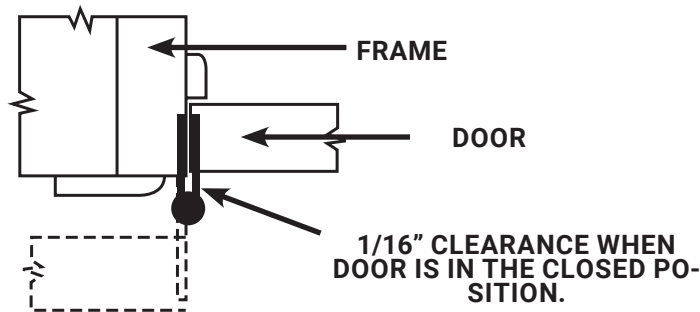
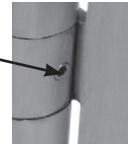
- Included with all 2 and 4 ball bearing, std and heavy weight hinges.
- Groove in pin accepts set screw in center barrel.
- Set screw secured using a 3/32" hex (allen) wrench and is not accessible when door is closed.

TYPE:

- Full Mortise. Hinge leaves are mortised into the door and frame.

SWAGGED:

- Standard.
- Provides 1/16" of clearance between both leaves when the hinge is in the closed position.



Specifications

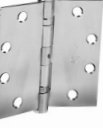


MATERIALS:	• STEEL — Applications: Interior doors, non-corrosive environments. • STAINLESS STEEL — Applications: Exterior, doors, corrosive environments
PACKAGING:	• Qty Of Hinges Per Individual Carton: 3 ea For Plain, 2 Ball Bearing and 4 Ball Bearing Hinges 3 ea For Spring Hinges 1 ea for Electrified Hinges • Qty Of Hinges Per Master Carton: 48 ea For Plain, 2 Ball Bearing and 24 Ball Bearing Hinges
FASTENERS:	• All hinges packed with Machine Screws (12-24 x 1/2" FHMS) and Wood Screws (12 x 1-1/4" FHWS)
CERTIFICATIONS, LISTINGS, COMPLIANCES:	• Conforms with the requirements of NFPA 80-2010, Section 6.4.3.1. • Certified to ANSI/BHMA A156.1-2013: — Grade 3, Plain Bearing (PL) 350,000 cycles — Electrified hinges tested to over 100,000 cycles • UL listed: — SH Series Spring Hinges — EL Series Electrified Hinges
WARRANTY:	• Five (5) year limited warranty

Plain Bearing

FULL MORTISE HINGES	DESCRIPTION	QTY OF HINGES PER CARTON	FINISH ANSI (US)	PDQ HINGE MODEL	LIST PRICE PER HINGE
	5 Knuckle Base Material: Steel Size: 4" x 4" Hinge Weight: Standard Frequency of Use: Low Thickness: .130" ± .005" Certified to ANSI 8133	3ea	600 (P)	35 ST PL 4040 600	\$10.00
			652 (US26D)	35 ST PL 4040 652	
	5 Knuckle Base Material: Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Standard Frequency of Use: Low Thickness: .130" ± .005" Certified to ANSI 8133	3ea	600 (P)	35 ST PL 4545 600	\$11.00
			613 (10B)	35 ST PL 4545 613	
			619(US15)	35 ST PL 4545 619	
			622 (US19)	35 ST PL 4545 622	
			652 (US26D)	35 ST PL 4545 626	

2 Ball Bearing

FULL MORTISE HINGES	DESCRIPTION	QTY OF HINGES PER CARTON	FINISH ANSI (US)	PDQ HINGE MODEL	LIST PRICE PER HINGE
	5 Knuckle Base Material: Stainless Steel Size: 4" x 3-1/2" Hinge Weight: Standard Frequency of Use: Medium Thickness: .118" ± .005" Certified to ANSI A5112	3ea	630 (US32D)	35 SS BB 4035 630 NRP	\$29.00
	5 Knuckle Base Material: Stainless Steel Size: 4" x 4" Hinge Weight: Standard Frequency of Use: Medium Thickness: .118" ± .005" Certified to ANSI A5112	3ea	630 (US32D)	35 SS BB 4040 630 NRP	\$32.00
	5 Knuckle Base Material: Steel Size: 4-1/2" x 4" Hinge Weight: Standard Frequency of Use: Medium Thickness: .134" ± .005" Certified to ANSI A8112	3ea	652 (US26D)	35 ST BB 4540 626 NRP	\$10.00
	5 Knuckle Base Material: Stainless Steel Size: 4-1/2" x 4" Hinge Weight: Standard Frequency of Use: Medium Thickness: .134" ± .005" Certified to ANSI A5112	3ea	630 (US32D)	35 SS BB 4540 630 NRP	\$35.00
	5 Knuckle Base Material: Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Standard Frequency of Use: Medium Thickness: .134" ± .005" Certified to ANSI A8112	3ea	600 (P)	35 ST BB 4545 600 NRP	\$11.00
			605 (US3)	35 ST BB 4545 605 NRP	\$15.00
			613 (10B)	35 ST BB 4545 613 NRP	
			619 (US15)	35 ST BB 4545 619 NRP	\$11.00
			622 (US19)	35 ST BB 4545 622 NRP	
			652 (US26D)	35 ST BB 4545 652 NRP	
	5 Knuckle Base Material: Stainless Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Standard Frequency of Use: Medium Thickness: .134" ± .005" Certified to ANSI A5112	3ea	622 (US19)	35 SS BB 4545 622 NRP	\$35.00
			630 (US32D)	35 SS BB 4545 630 NRP	

4 Ball Bearing

FULL MORTISE HINGES	DESCRIPTION	QTY OF HINGES PER CARTON	FINISH ANSI (US)	PDQ HINGE MODEL	LIST PRICE PER HINGE
	5 Knuckle Base Material: Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Heavy Frequency of Use: High Thickness: .180" ± .005" Certified to ANSI 8111	3ea	600 (P)	35 ST HB 4545 600 NRP	\$26.00
			605 (US3)	35 ST HB 4545 605 NRP	\$32.00
			613 (10B)	35 ST HB 4545 613 NRP	
			619 (US15)	35 ST HB 4545 619 NRP	\$26.00
			622 (US19)	35 ST HB 4545 622 NRP	
			652 (US26D)	35 ST HB 4545 626 NRP	
	5 Knuckle Base Material: Stainless Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Heavy Frequency of Use: High Thickness: .180" ± .005" Designed to meet ANSI 5111	3ea	630 (32D)	35 SS HB 4545 630 NRP	\$60.00
	5 Knuckle Base Material: Steel Size: 5" x 4-1/2" Hinge Weight: Heavy Frequency of Use: High Thickness: .180" ± .005" Designed to meet ANSI 8111	3ea	652 (US26D)	35 ST HB 5045 626 NRP	\$38.00
	5 Knuckle Base Material: Stainless Steel Size: 5" x 4-1/2" Hinge Weight: Heavy Frequency of Use: High Thickness: .180" ± .005" Designed to meet ANSI 5111	3ea	630 (32D)	35 SS HB 5045 630 NRP	\$77.00
	5 Knuckle Base Material: Stainless Steel Size: 5" x 5" Hinge Weight: Heavy Frequency of Use: High Thickness: .180" ± .005" Designed to meet ANSI 5111	3ea	630 (32D)	35 SS HB 5050 630 NRP	\$90.00

Spring Hinges

SPRING HINGES	DESCRIPTION	QTY OF HINGES PER CARTON	FINISH ANSI (US)	PDQ HINGE MODEL	LIST PRICE PER HINGE
 	3 Knuckle Base Material: Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Standard Frequency of Use: Medium Thickness: .134" ± .005" Designed to meet ANSI K8107-1F	3ea	600 (P)	35 ST SH 4545 600	\$28.00
			613 (10B)	35 ST SH 4545 613	
			619 (US15)	35 ST SH 4545 619	
			622 (US19)	35 ST SH 4545 622	
			652 (US26D)	35 ST SH 4545 626	
			605 (US3)	35 ST SH 4545 605	
 	3 Knuckle Base Material: Stainless Steel Size: 4-1/2" x 4-1/2" Hinge Weight: Standard Frequency of Use: Medium Thickness: .134" ± .005" Designed to meet ANSI K5107-1F	3ea	630 (32D)	35 SS SH 4545 630	\$64.00

Prepackaged Hinge Sets — Everything you could need, in one convenient package.

	DESCRIPTION	FINISH	PDQ PART NUMBER	LIST PRICE PER KIT
	2-Spring Hinge 4545 1-Ball Bearing Hinge	626	35 ST SHP 4545 626	\$64

Electrified Hinges

	FEATURES	QTY OF HINGES PER CARTON	CODE	DESCRIPTION	HINGE ADJUSTMENT
		1ea	EL 4	Concealed electric through-wire (2 wires @ 20ga, 2 wires @ 26ga)	\$794
			EL 8	Concealed electric through-wire (8 wires, 28ga)	\$920

How to Order

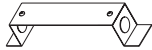
QUANTITY	SERIES	MATERIAL	STYLE	SIZE	FINISH	SECURITY FEATURE ²	ELECTRIFIED OPTIONS ¹
10	35	ST	BB	4545	630	NRP	—
	35 — Full Mortise	ST — Steel SS — Stainless Steel	PL — Plain Bearing BB — 2 Ball Bearing HB — 4 Ball Bearing SH — Spring Hinge	4035 — 4" X 3-1/2" 4040 — 4" X 4" 4540 — 4-1/2" X 4" 4545 — 4-1/2" X 4-1/2" 5045 — 5" x 4-1/2" 5050 — 5" x 5"	600 — Prime Coated 605 — Bright Brass 613 — Oil Rub Bronze 619 — Satin Nickel 622 — Black 626 — Satin Chrome 630 — Satin Stainless Steel	NRP — Non Removable Pin	EL 4 — Concealed electric through-wire (2 wires @ 20ga, 2 wires @ 26ga) EL 8 — Concealed electric through-wire (8 wires, 28ga)

Ordering example: Plain bearing hinge: 35 ST PL 4545 600
4 Wire Std Weight Hinge: EL 4 35 SS BB 4545 630 NRP

Notes:

- 1 - EL Series only available in 2 and 4 ball bearing. Includes NRP.
- 2 - NRP only available in 2 and 4 ball bearing.

Accessories

PART	DESCRIPTION
 85004	MORTAR GUARD FOR ELECTRIFIED HINGES

Quick Reference Guide

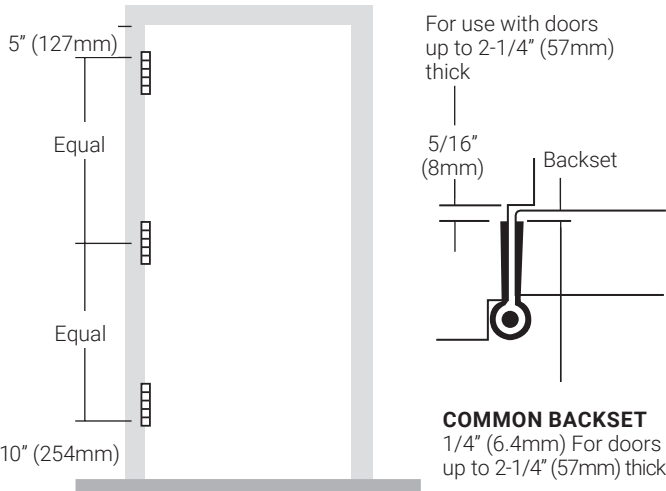
PDQ HINGE MODEL*	FINISH ANSI (US)	ANSI NUMBER*	STYLE	BASE MATERIAL	SIZE	FREQUENCY	WEIGHT	THICK- NESS	SWAGING
FULL MORTISE HINGES									
35 ST PL 4040 600	600 (P)	A8133	PLAIN	STEEL	4" x 4"	LOW		.130"±.005"	2 LEAVES
35 ST PL 4040 652	652 (26D)				4-1/2" x 4-1/2"				
35 ST PL 4545 600	600 (P)								
35 ST PL 4545 613	613 (10B)								
35 ST PL 4545 652	652 (26D)								
35 ST PL 4545 622	622 (US19)								
35 ST BB 4545 600 NRP	600 (P)	A8112 w/NRP	2 BALL BEARING	STEEL	4-1/2" x 4-1/2"	STANDARD	.134"±.005"		
35 ST BB 4545 605 NRP	605 (3)								
35 ST BB 4545 613 NRP	613 (10B)								
35 ST BB 4545 622 NRP	622 (US19)								
35 ST BB 4545 652 NRP	652 (26D)								
35 ST BB 4540 652 NRP					4-1/2 x 4"				
35 SS BB 4035 630 NRP	630 (32D)	A5112 w/NRP		STAINLESS STEEL	4" x 3-1/2"	MEDIUM			
35 SS BB 4040 630 NRP					4" x 4"				
35 SS BB 4540 630 NRP					4-1/2 x 4"				
35 SS BB 4545 630 NRP					4-1/2" x 4-1/2"				
35 SS BB 4545 622 NRP	622 (US19)								
35 ST HB 4545 600 NRP	600 (P)							A8111 w/NRP	
35 ST HB 4545 605 NRP	605 (3)								
35 ST HB 4545 613 NRP	613 (10B)								
35 ST HB 4545 622 NRP	622 (US19)								
35 ST HB 4545 652 NRP	652 (26D)								
35 ST HB 5045 652 NRP		5" x 4-1/2"							
35 SS HB 4545 630 NRP	630 (32D)	A5111 w/NRP		STAINLESS STEEL	4-1/2" x 4-1/2"				
35 SS HB 5045 630 NRP					5" x 4-1/2"				
SPRING HINGES									
35 ST SH 4545 613	613 (10B)	K8107-1F		STEEL	4-1/2" x 4-1/2"	MEDIUM	STANDARD	.134+-.005	2 LEAVES
35 ST SH 4545 613	613 (10B)								
35 ST SH 4545 652	652 (26D)								
35 ST SH 4545 622	622 (US19)								
35 SS SH 4545 630	630(32D)	K5107-1F		STAINLESS STEEL					
ELECTRIFIED HINGES									
See Full Mortise Hinge Table above, 2 and 4 Ball Bearing Series.									

Recommended Number of Hinges

On doors up to 5' (1.52m) use two hinges and an additional hinge for each additional 2.5' (.76m) or fraction thereof.

See table below:

DOOR HEIGHT (UP TO)		RECOMMENDED # OF HINGES
FT	M	
5	1.52	2
7-1/2	2.29	3
10	3.05	4
12-1/2	3.81	5
15	4.57	6



Hinge Locations on Door

- Top hinge 5" (127mm) from frame rabbet to top of hinge barrel.
- Bottom hinge 10" (254mm) from bottom edge of hinge barrel to finished floor.
- Center third hinge between top and bottom hinges.

NOTE: This information is for reference only. Actual placement may vary according to code requirements and guidelines provided by the door manufacturer..

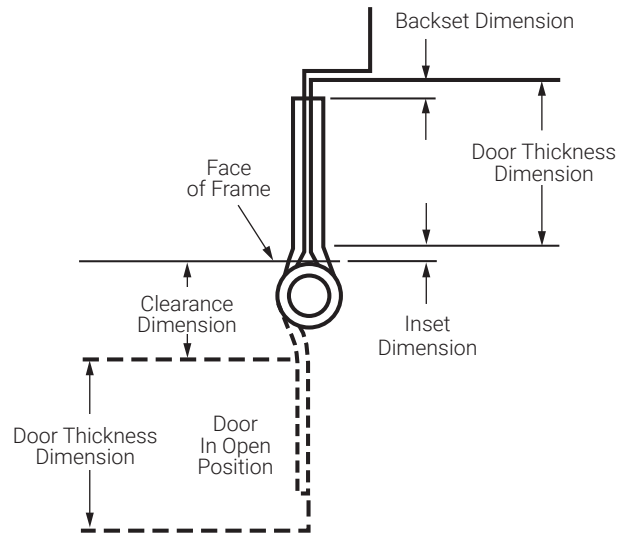
Hinge Width

DOOR THICKNESS		CLEARANCE REQUIRED		WIDTH OF HINGE IN OPEN POSITION	
INCHES	MM	INCHES	MM	INCHES	MM
1-3/8"	34.9	1-1/4" 1-3/4"	31.8 44.5	3-1/2" 4"	88.9 101.6
1-3/4"	44.5	1" 1-1/2" 2" 3"	25.4 38.1 50.8 76.2	4" 4-1/2" 5" 6"	101.6 104.3 127 152.4
2"	50.8	1" 1-1/2" 2-1/2"	25.4 38.1 63.5	4-1/2" 5" 6"	114.3 127 152.4
2-1/4"	57.15	1" 2"	25.4 50.8	5" 6"	127 152.4
2-1/2"	63.5	3/4" 1-3/4"	19 44	5" 6"	127 152.4
3"	76.2	3/4" 2-3/4" 4-3/4"	19 69.9 120.7	6" 8" 10"	152.4 203.2 254

Hinge Width Formula

Calculation to determine hinge width requirements for extra clearance

Take thickness of door - (subtract) backset x (multiply) 2 + (plus) inset (if applicable) = (equals) hinge width. If the resulting value does not match a standard hinge width, use the next larger hinge (width).



Typical Door Weights

DOOR MATERIAL	DOOR THICKNESS					
	INCHES	MM	INCHES	MM	INCHES	MM
	1-3/8"	34.9	1-3/4"	44.5	2"	50.8
	lbs/ft ²	kg/m ²	lbs/ft ²	kg/m ²	lbs/ft ²	kg/m ²
Ash	4	19.5	5	24.4	6	29.3
Birch	4.25	20.8	5.5	26.9	6.25	30.5
Fir	3	14.6	3.5	17.1	4	19.5
Mahogany	3.5	17.1	4.5	22	5.25	25.6
Oak	5	24.4	7	34.2	8	39.1
White Pine	3	14.6	3.5	17.1	4	19.5
Hollow Core	2	9.8	2.5	12.2	—	—
Particle Core	4	19.5	5	24.4	—	—
Solid Core	3.5	17.1	4.5	22	5.25	25.6
Kalamein	—	—	5	24.4	—	—
Mineral Core	3.5	17.1	4	19.5	—	—
Lead Lined Wood w/ 1/16" thick lead	—	—	8.7	42.5	—	—
Lead Lined Wood w/ 1/8" thick lead	—	—	12.4	60.5	—	—
Lead Lined Wood w/ 3/16" thick lead	—	—	16.1	78.6	—	—
Lead Lined Wood w/ 1/4" thick lead	—	—	19.8	96.7	—	—
Lead Lined Wood w/ 3/8" thick lead	—	—	27.2	132.8	—	—
Lead Lined Wood w/ 1/2" thick lead	—	—	34.6	168.9	—	—
Hollow Metal 18 gauge	4.3	21	4.6	22.5	—	—
Hollow Metal 16 gauge	5.4	26.4	5.8	28.3	—	—
Hollow Metal 15 gauge	6.2	30.3	6.5	31.7	—	—
Hollow Metal 14 gauge	7	34.2	7.3	35.6	—	—
Hollow Metal 13 gauge	8.3	40.5	8.7	42.5	—	—
Hollow Metal 12 gauge	9.9	48.3	10.2	49.8	—	—
Hollow Metal 11 gauge	11.2	54.7	11.6	56.6	—	—
Hollow Metal 10 gauge	12.8	62.5	13	63.5	—	—

The above chart indicates approximate weights for common door types. These estimations do not include the additional weight of any door hardware.

Hinge Selection for Labeled Fire Doors

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6.4.3* Builders Hardware.

6.4.3.1 Hinges. Hinges shall be as specified in individual door manufacturer's published listings or Table 6.4.3.1.

6.4.3.1.1 Doors up to 60 in. (1.52 m) in height shall be provided with two hinges and an additional hinge for each additional 30 in. (0.76 m) of door height or fraction thereof.

Table 6.4.3.1 Builders Hardware Mortise, Surface, and Full Length Hinges, Pivots, or Spring Hinges for Swinging Doors

DOOR RATING (HR)	MAXIMUM DOOR SIZE WIDTH	MAXIMUM DOOR SIZE HEIGHT	MINIMUM HINGE SIZE WIDTH	MINIMUM HINGE SIZE THICKNESS	HINGE TYPE
FOR 1-3 / 4 IN. (44.5-MM) OR THICKER DOORS					
3 or Less	4 ft. (1.22m)	10 ft. (3.05m)	4.5 in. (114.3mm)	0.180 in. (4.57mm)	Steel, mortise or surface
3 or Less	4 ft. (1.22m)	8 ft. (2.44m)	4.5 in. (114.3mm)	0.134 in. (3.40mm)	Steel, mortise or surface
1-1/2 or Less	3-1/6 ft. (0.96m)	8 ft. (2.44m)	6 in. (152.4mm)	0.225 in. (5.72mm)	Steel, olive knuckle or paumelle
3 or Less	4 ft. (1.22m)	10 ft. (3.05m)	4 in. (101.6mm)	0.225 in. (5.72mm)	Steel pivots (including top, bottom, and intermediate)
1-1/2 or Less	3 ft. (0.91m)	5 ft. (1.52m)	4 in. (101.6mm)	0.130 in. (3.30mm)	Steel, mortise or surface
1-1/2 or Less	2 ft. (0.61m)	3 ft. (0.91m)	3 in. (76.2mm)	0.092 in. (2.34mm)	Steel, mortise or surface
3 or Less	3 ft. (0.91m)	7 ft. (2.13m)	4.5 in. (114.3mm)	0.134 in. (3.40mm)	Steel mortise or surface (labeled, self closing, spring type)
3 or Less	3 ft. (0.91m)	7 ft. (2.13m)	4 in. (101.6mm)	0.106 in. (2.67mm)	Steel mortise or surface (labeled, self closing, spring type)
FOR 1-3 / 8 IN. (34.93-MM) OR THICKER DOORS					
3 or Less	3 ft. (0.91m)	7 ft. (2.13m)	3.5 in. (88.9mm)	0.123 in. (3.12mm)	Steel, mortise or surface
3 or Less	2-2/3 ft. (0.81m)	7 ft. (2.13m)	3.5 in. (88.9mm)	0.105 in. (2.67mm)	Steel mortise or surface (labeled, self closing, spring type)

6.4.3.1.1.1 The distance between hinges shall be permitted to exceed 30 in (0.76 m).

6.4.3.1.1.2 Where spring hinges are used, at least two shall be provided.

6.4.3.1.2 All hinges or pivots, except spring hinges, shall be of the ball bearing type.

6.4.3.1.2.1 Hinges or pivots employing other anti-friction bearing surfaces shall be permitted if they meet the requirements of ANSI/BHMA A156.1, Standard for Butts and Hinges.

6.4.3.1.2.2 Spring hinges shall be labeled and shall meet the requirements of ANSI/BHMA A156.17, Standard for Self Closing Hinges & Pivots, Grade 1.

6.4.3.1.3 Hinges 4 1/2 in. (114 mm) high and 0.180 in. (4.57 mm) thick shall be permitted for use on wide and heavy doors or doors that are subjected to heavy use or unusual stress.

Hinge Selection for Labeled Fire Doors (Cont.)

6.4.3.1.4 Fire doors with hinges of lighter weight that are not of the ball bearing type shall be permitted under the following conditions:

1. They are part of a listed assembly.
2. They meet the test requirements of ANSI/BHMA A156.1, Standard for Butts and Hinges.
3. They have been tested to a minimum of 350,000 cycles.

6.4.3.1.5 Pivot sets made up of components that are smaller or of a lighter gauge than shown in Table 6.4.3.1 shall be permitted to be used, provided they meet the requirements of ANSI/BHMA A156.4, Standard for Door Controls (Closers), and are in accordance with the manufacturer's label service procedures.

6.4.3.2 Attaching Hinges to Doors.

6.4.3.2.1 Hinges shall be secured in accordance with the listing and the manufacturer's installation instructions.

6.4.3.2.2 Mortise hinges shall be secured to reinforcements in the doors with steel machine screws.

6.4.3.2.3 Mortise hinges shall be secured to wood and plastic-covered composite doors or wood core doors with No. 12 x 1 1/4 in. (31.75 mm) flat, threaded-to-the-head, steel wood screws. Pilot holes shall be drilled that are 5/32 in. (4 mm) in diameter.

6.4.3.2.4 Surface hinges shall be attached with steel through-bolts.

6.4.3.3 Attaching Hinges to Frames. Hinges shall be secured to frames with steel screws.

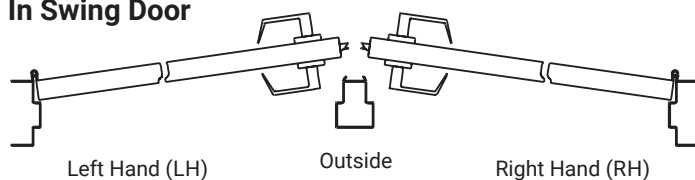
6.4.3.3.1 Types of screws shall be permitted to vary depending on material use for the manufacture of labeled door frames.

6.4.3.3.2 The manufacturer's instructions and published listings for labeled door frames shall be referenced for specific screw requirements.

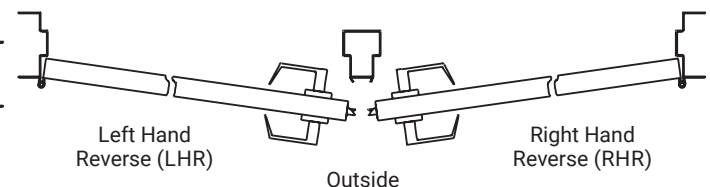
6.4.3.3.4 Shimming. When required to meet the clearances stated in 6.3.1.7, the shimming of hinges using steel shims shall be permitted.

Handing

In Swing Door



Out Swing Door

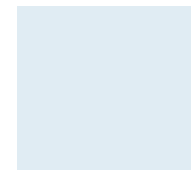


Finishes

Architectural



Painted



652 (US26D) Satin Chromium

Cross Reference

HINGE DESCRIPTION	PDQ	ANSI	BOMMER	HAGER	MCKINNEY	PBB	STANLEY
Plain Bearing, Standard Weight – Steel	35STPL	A8133	5000	1279	T2714	PB81	F179
				EC1100	MP79		
2 Ball Bearing, Standard Weight – Steel	35STBB	A8112	BB5000	BB1279	TA2714	BB81	FBB179
				ECBB1100	MPB79		
2 Ball Bearing, Standard Weight – Stainless Steel	35SSBB	A5112	BB5002	BB1191	TA2314	BB51	FBB191
				(630/32D)	(630/32D)		
4 Ball Bearing, Heavy Weight – Steel	35STHB	A8111	BB5004	BB1168	T4A3786	4B81	FBB168
				ECBB1102	MPB68		
4 Ball Bearing, Heavy Weight – Stainless Steel	35SSHB	A5111	BB5006	BB1199	T4A3386	4B51	FBB199
				ECBB1103	MPB68		
Spring Hinge, Self Closing – Steel	35STSH	K8107-1F	LB4310C	1250	1502	SP81	2060R
				EC1105	MPS60		



SECURING CONFIDENCE **OPENING** **POSSIBILITIES**

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