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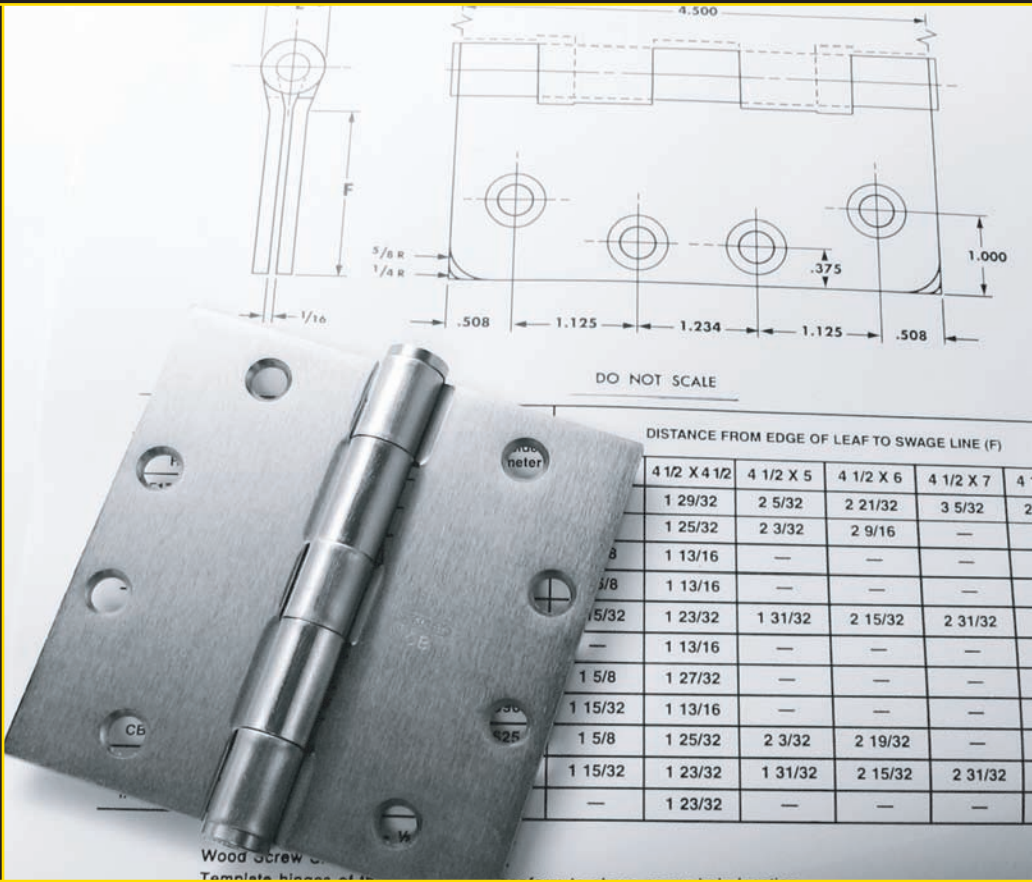
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GENERAL HINGE

INFORMATION

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

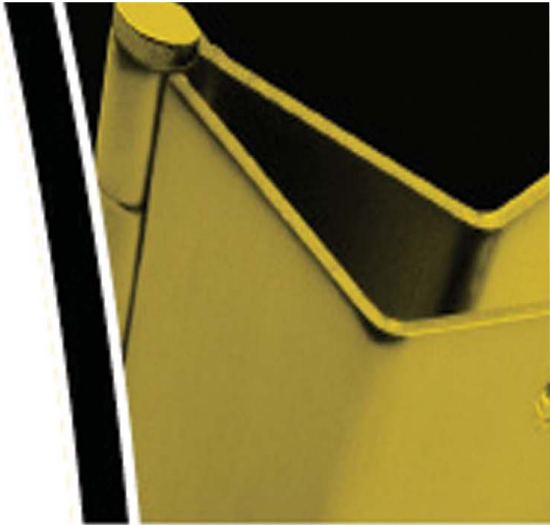
With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 165 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com





GENERAL HINGE INFORMATION



GENERAL HINGE INFORMATION

Factors Determining proper hinge selection

- **Application**

Primary consideration is given to the type of door and frame for selection of a proper hinge configuration.

- **Hinge Size**

Determined by door size, thickness, weight, frequency of use, and clearance required.

- **Hinge Type**

The weight of the door and frequency of use determine whether a heavy weight, standard weight anti-friction* bearing or, a plain bearing hinge should be used.

Heavy weight hinges should always be used on heavy doors and doors where high frequency is expected.

Use anti-friction* bearing hinges on doors equipped with closers.

- **Metal and Finish**

Determined by considerations such as atmospheric conditions, location of doors, or special conditions as in chemical laboratories, sewage disposal plants, etc.

While ferrous metal can be given a good rust-resisting base, it cannot be given the same absolute guarantee against rust as nonferrous metals and should not be used for extreme exposure.

Finish on hinges can be furnished to Stanley or ANSI/BHMA Standards.

When an exact match of another manufacturer's finish is desired, please submit sample.

- **Fasteners**

Standard fasteners furnished with each hinge are specified in this catalog. Other fasteners are available and must be clearly specified.

- **Hand of Hinge**

Loose joint hinges, pivot reinforced, electric, etc. are handed and should be specified right or left hand.

- **Hinge Edge of Door**

Is the door edge on the hinge side square or beveled?

- **Tip Options**

Institutions often require hospital type tips (barrel ends sloped) making it difficult to attach rope, wearing apparel, etc.

Flat button tip is universally used as standard.

Decorative tips and conversion kits are available for decorative effects.

- **Special Hinge Types**

Raised barrel, electric hinges, pivot reinforced hinges, hinges with non-removable pins, security studs, etc.

- **Quality Level, Budget**

Number of Hinges Required

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

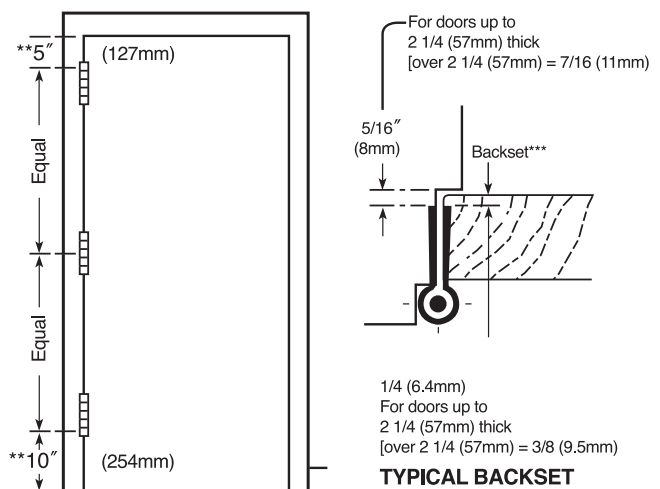
Location of Hinges on Doors

(US Standards Procedure)

Top hinge 5" (127mm) from frame rabbet to top of barrel.

Bottom hinge 10" (254mm) from bottom edge of barrel to finished floor.

Third hinge centered between top and bottom hinges.



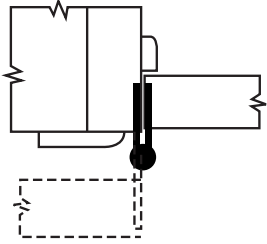
* Anti-friction bearings include Lifestan® CB bearings and ball bearings

** Certain western states use as standard 7" (178mm) from top and 11" (279mm) from the bottom.

*** The suggested location for olive knuckle and paumelle hinges is 1/4" (6.4mm) from pull side of door to edge of hinge leaf

GENERAL HINGE INFORMATION

Application



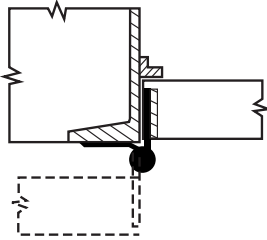
Full Mortise

Doors

Solid Core Wood
Hollow Metal
Mineral Core Wood Doors
with minimum $\frac{3}{4}$ " Edge Style

Frames

Wood
Hollow Metal



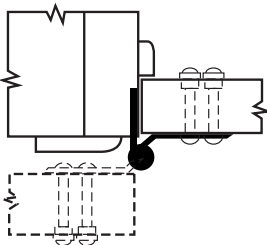
Half Mortise

Doors

Solid Core Wood
Hollow Metal

Frames

Channel Iron
Tubular



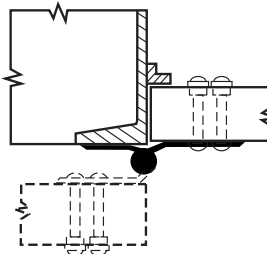
Half Surface

Doors

Hollow Core Wood
Mineral Core Wood Doors
with less than $\frac{3}{4}$ " Edge Style

Frames

Wood
Hollow Metal



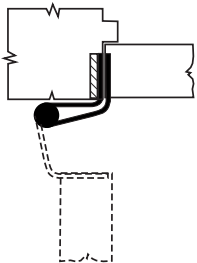
Full Surface

Doors

Hollow Core Wood
Kalamein

Frames

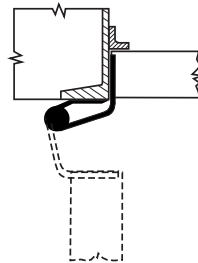
Channel Iron
Tubular



Swing Clear Full Mortise

Doors
Wood

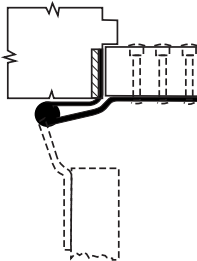
Frames
Hollow Metal



Swing Clear Half Mortise

Doors
Wood

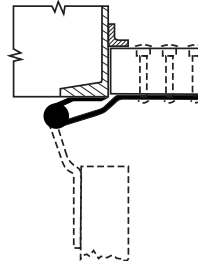
Frames
Channel Iron



Swing Clear Half Surface

Doors
Mineral Core

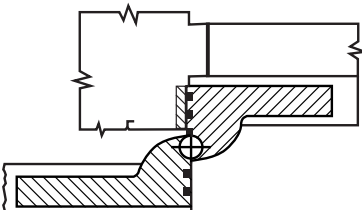
Frames
Hollow Metal



Swing Clear Full Surface

Doors
Mineral Core

Frames
Channel Iron



Pivot Reinforced Full Mortise

Doors
Solid Core Wood
Hollow Metal

Frames
Hollow Metal

GENERAL HINGE INFORMATION

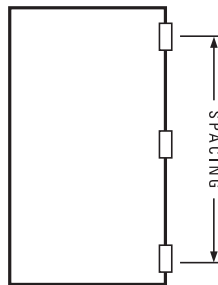
Hinge Height – Standard Door size 3' 0" (.91m) x 7' 0" (2.13m)*

Weight	Frequency	1 3/8" (35mm)	1 3/4" (44mm)	2" (51mm)
50 lbs. (23 Kg)	UP TO LOW	741 3 1/2 x 3 1/2 (89 x 89)	741 4 x 4 (102 x 102)	—
	MEDIUM	741 3 1/2 x 3 1/2 (89 x 89)	—	—
	HIGH	F179 4 x 4 (102 x 102)	—	—
50 lbs. (23 Kg) TO 75 lbs. (34 Kg)	LOW	741 4 x 4 (102 x 102)	F179 4 x 4 (102 x 102)	F179 4 1/2 x 4 1/2 (114 x 114)
	MEDIUM	CB179 3 1/2 x 3 1/2 (89 x 89)	CB179 4 x 4 (102 x 102)	CB179 4 1/2 x 4 1/2 (114 x 114)
	HIGH	CB179 4 x 4 (102 x 102)	CB179 4 1/2 x 4 1/2 (114 x 114)	CB179 4 1/2 x 4 1/2 (114 x 114)
76 lbs. (34 Kg) TO 125 lbs. (57 Kg)	LOW	F179** 4 1/2 x 4 (114 x 102)	F179 4 1/2 x 4 1/2 (114 x 114)	F179 5 x 5 (127 x 127)
	MEDIUM	CB179** 4 1/2 x 4 (114 x 102)	CB179 4 1/2 x 4 1/2 (114 x 114)	CB179 4 1/2 x 4 1/2 (114 x 114)
	HIGH	CB179** 5 x 4 1/2 (127 x 114)	CB168 4 1/2 x 4 1/2 (114 x 114)	CB168 4 1/2 x 4 1/2 (114 x 114)
126 lbs. (57 Kg) TO 175 lbs. (79 Kg)	LOW	F179** 4 1/2 x 4 (114 x 102)	F179 4 1/2 x 4 1/2 (114 x 114)	F179 5 x 5 (127 x 127)
	MEDIUM	CB179** 4 1/2 x 4 (114 x 102)	CB179 4 1/2 x 4 1/2 (114 x 114)	CB179 5 x 5 (127 x 127)
	HIGH	CB168** 4 1/2 x 4 1/2 (114 x 114)	CB168 4 1/2 x 4 1/2 (114 x 114)	CB168 5 x 5 (127 x 127)
176 lbs. (80 Kg) TO 225 lbs. (102 Kg)	LOW	—	CB179 5 x 4 1/2 (127 x 114)	CB179 5 x 5 (127 x 127)
	MEDIUM	—	CB168 4 1/2 x 4 1/2 (114 x 114)	CB168 4 1/2 x 4 1/2 (114 x 114)
	HIGH	—	CB168 5 x 5 (127 x 127)	CB168 5 x 5 (127 x 127)
226 lbs. (102 Kg) TO 300 lbs. (136 Kg)	LOW	—	CB168 4 1/2 x 4 1/2 (114 x 114)	CB168 4 1/2 x 4 1/2 (114 x 114)
	MEDIUM	—	CB168 5 x 5 (127 x 127)	CB168 5 x 5 (127 x 127)
	HIGH	—	CB168 6 x 5 (152 x 127)	CB168 6 x 6 (152 x 152)
301 lbs. (136 Kg) TO 600 lbs. (272 Kg)	LOW	—	CB168 5 x 5 (127 x 127)	CB168 5 x 5 (127 x 127)
	MEDIUM	—	CB168 6 x 5 (152 x 127)	CB168 6 x 6 (152 x 152)
	HIGH	—	CB168 8 x 6 (203 x 152)	CB168 8 x 8 (203 x 203)
601 lbs. (272 Kg) TO 1000 lbs. (453 Kg)	LOW	—	BB855 5 x 6 (127 x 152)	BB855 5 x 6 (127 x 152)
	MEDIUM	—	BB855 5 x 6 (127 x 152)	BB855 5 x 6 (127 x 152)
	HIGH	—	BB852 5 x 6 (127 x 152)	BB852 5 x 6 (127 x 152)
1001 lbs. (453 Kg) TO 2000 lbs. (906 Kg)	ALL	—	BB852 5 x 6 (127 x 152)	BB852 5 x 6 (127 x 152)

Design Options: A comparable CB 3 Knuckle or "F" Line hinge may be substituted. A comparable non-ferrous hinge may also be substituted. A comparable different configuration of hinge may be substituted.

HINGE HEIGHT – OTHER DOOR SIZES*

Door Width Factors			Hinge Spacing Factors			No. Of Hinges Required Per Door																				
Width			Spacing																							
Feet	Meters	Factor	Inches	mm	Factor																					
2	.61	.66	70	1778	1.0	<table border="1"> <thead> <tr> <th colspan="2">Door Height</th> <th rowspan="2">No. of Hinges</th> </tr> <tr> <th>Feet</th> <th>Meters</th> </tr> </thead> <tbody> <tr> <td>Up to 5</td> <td>1.52</td> <td>2</td> </tr> <tr> <td>7.5</td> <td>2.29</td> <td>3</td> </tr> <tr> <td>10</td> <td>3.05</td> <td>4</td> </tr> <tr> <td>12.5</td> <td>3.81</td> <td>5</td> </tr> <tr> <td>15</td> <td>4.57</td> <td>6</td> </tr> </tbody> </table>	Door Height		No. of Hinges	Feet	Meters	Up to 5	1.52	2	7.5	2.29	3	10	3.05	4	12.5	3.81	5	15	4.57	6
Door Height		No. of Hinges																								
Feet	Meters																									
Up to 5	1.52	2																								
7.5	2.29	3																								
10	3.05	4																								
12.5	3.81	5																								
15	4.57	6																								
2.5	.76	.83	64	1626	1.09																					
3	.91	1.0	60	1524	1.17																					
3.5	1.07	1.2																								
4	1.22	1.33																								
Over 4	1.22	Consult Factory																								



Example 1 – 150 lbs. (68 Kg) door 1 3/4" (44mm) x 3' (.91m) wide x 7' (2.13m) door—Medium frequency application. Select door weight column 126 lbs. (57Kg) to 175 lbs. (79Kg) and select door size column 1 3/4" (44mm) x 3' (.91m) wide x 7' (2.13m). In box where both lines intersect use CB179 4 1/2" x 4 1/2" (114mm x 114mm) or 4 1/2" x 4" (114mm x 102mm)hinge for medium frequency use.

Example 2 – 100 lbs. (45 Kg) door 1 3/4" (44mm) x 4' (1.22m) wide x 60" (1524mm) hinge spacing and high frequency application.

Solution: Door width factor 4' (1.22m) = 1.33
 Hinge spacing factor 60" (1524mm) = 1.17
 Multiply: Door weight x door width factor x hinge spacing factor.
 100 lbs. (45 Kg) x 1.33 x 1.17 = 156 lbs. (70 Kg).

Check: Door weight column 126 lbs. (57 Kg) to 175 lbs. (79 Kg) and 1 3/4" (44mm) door side column. Where they intersect use CB168 4 1/2" x 4 1/2" (114mm x 114mm) for high frequency use.

* This information is offered strictly as a guide to help select hinges for use in normal situations. The major factors affecting hinge selection are addressed but no attempt has been made to include extraordinary factors such as abuse, impacts, hostile atmospheres or other such conditions that can and often do affect hinge performance.

** A special hole pattern may be necessary for thin doors (such as 1 3/8"). Consult factory.

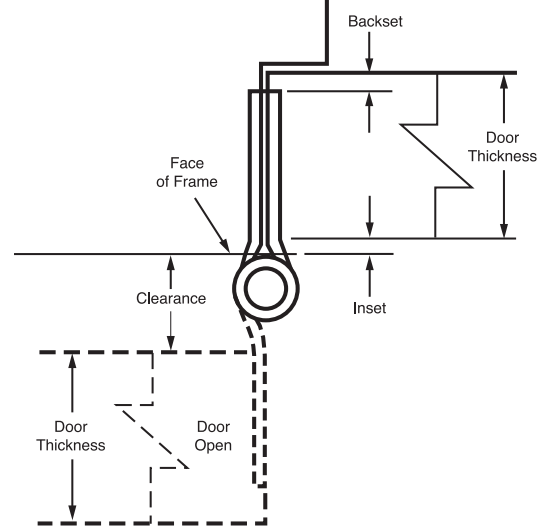
GENERAL HINGE INFORMATION

Hinge Width

Thickness of Door		Clearance Required		Open Width of Hinge	
inches	mm	inches	mm	inches	mm
1 3/8"	35	1 1/4"	32	3 1/2"	89
		1 3/4"	44	4"	102
1 3/4"	44	1"	25	4"	102
		1 1/2"	38	4 1/2"	114
		2"	51	5"	127
2"	51	3"	76	6"	152
		1"	25	4 1/2"	114
		1 1/2"	38	5"	127
2 1/4"	57	2 1/2"	64	6"	152
		1"	25	5"	127
2 1/2"	64	2"	51	6"	152
		3/4"	19	5"	127
3"	76	1 3/4"	44	6"	152
		2 3/4"	70	8"	203
		4 3/4"	121	10"	254

Formula to determine hinge width where additional clearance is required

(door thickness minus backset) times 2 plus clearance required plus inset (if any) **EQUALS** hinge width (if not standard width – use next larger standard hinge width)



For Other Hinges

Full Surface, Half Surface, Half Mortise – clearance is dictated by the amount of offset rather than hinge width.

Frequency of Door Operation

Type of Building and Door	Estimated Frequency		Hinge Type
	Daily	Yearly	
Large dept. store entrance	5,000	1,500,000	High frequency } Heavy Weight
Large office bldg. entrance	4,000	1,200,000	
School entrance	1,250	225,000	
School toilet door	1,250	225,000	
Store or bank entrance	500	150,000	
Office bldg. toilet door	400	118,000	
School corridor door	80	15,000	Av. frequency } Standard Weight
Office bldg. corridor door	75	22,000	
Store toilet door	60	18,000	
Dwelling entrance	40	15,000	
Dwelling toilet door	25	9,000	Low frequency } Plain Bearing Hinges may be used on light doors
Dwelling corridor door	10	3,600	
Dwelling closet door	6	2,200	

Average Door Weights of Architectural Grade Doors

Door Thickness	inches	mm	inches	mm	inches	mm
	1 3/8"	35	1 3/4"	44	2"	51
	lbs/ft ²	kg/m ²	lbs/ft ²	kg/m ²	lbs/ft ²	kg/m ²
Hollow Metal	4	19.5	5	24.4	6 1/2	31.7
Kalamein	–	–	5	24.4	–	–
Hollow Core	2	9.8	2 1/2	12.2	–	–
Solid Core	3 1/2	17	4 1/2	22	5 1/4	25.6
Mineral Core	3 1/2	17	4	19.5	–	–
Pine (White)	3	14.6	3 1/2	17	4	19.5
Oak	5	24.4	7	34.2	8	39
Ash	4	19.5	5	24.4	6	29.3
Fir	3	14.6	3 1/2	17	4	19.5
Birch	4 1/4	20.8	5 1/2	26.9	6 1/4	30.5
Mahogany	3 1/2	17	4 1/2	22	5 1/4	25.6

Lead Lining Weights

Thickness			
inches	mm	lbs/ft ²	kg/m ²
1/64	.4	1	4.9
1/16	1.6	3.75	18.3
1/8	3.2	7.5	36.6

Glass Door Weights

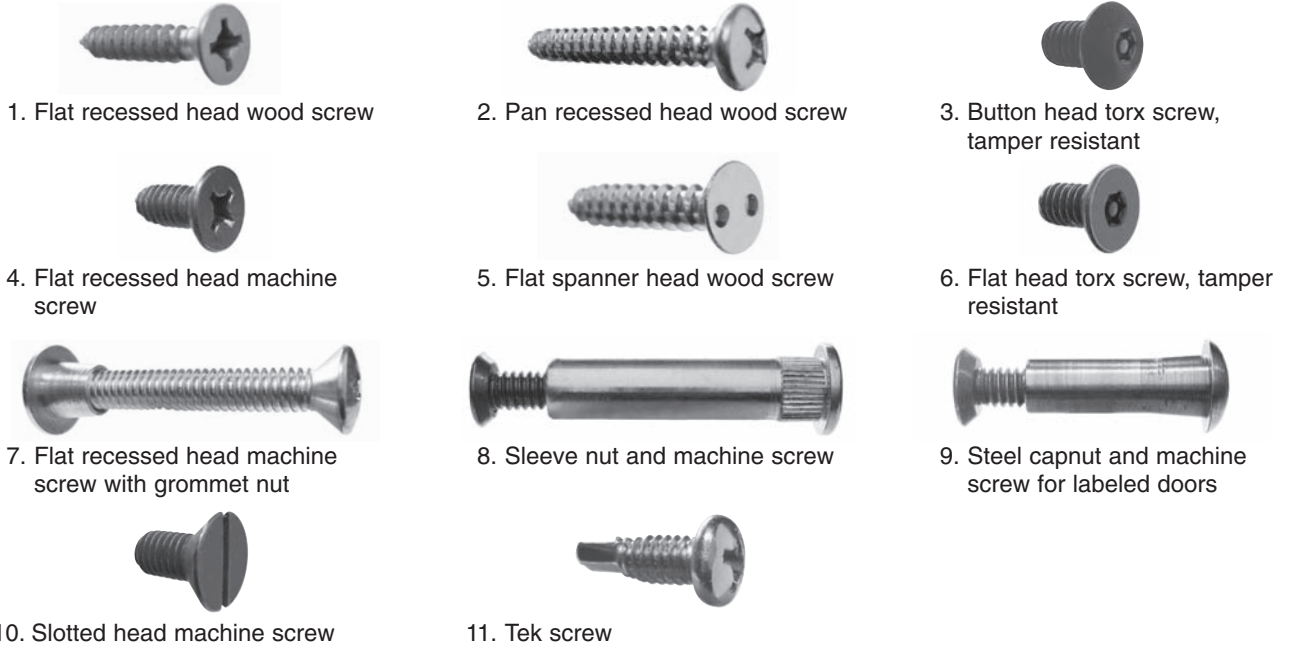
Thickness			
inches	mm	lbs/ft ²	kg/m ²
1/4	6.4	3.5	17

PlexiGlass Door Weights

Thickness			
inches	mm	lbs/ft ²	kg/m ²
1/4	6.4	1.6	7.8

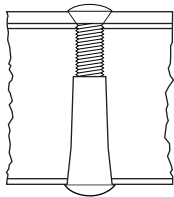
GENERAL HINGE INFORMATION

Fasteners

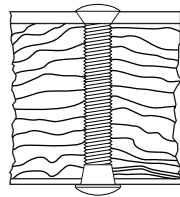


Half and Full Surface Hinge Fastenings

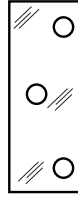
Application of machine screw and cap nut and machine screw and grommet nut.



Machine screw and cap nut



Machine screw and grommet nut

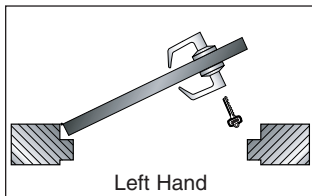


BP-1
Hinge Back Plate
[4 1/2" (114mm) size shown]

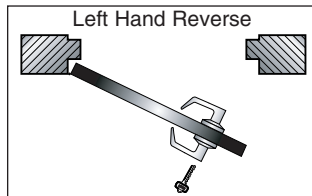
- Through-bolts and grommet nuts regularly furnished with half surface and full surface hinges
- Through-bolts and sleeve nuts available on special order
- Hinge back plates, BP-1, available for hinge sizes 4 1/2" (114mm) and 5" (127mm). Holes accommodate either sleeve nuts or grommet nuts
- Special back plates are also available for swing clear hinges

How to Determine Hand of Hinge

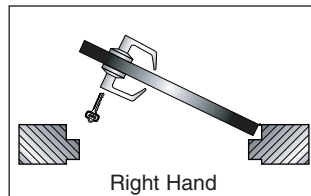
- The hand of a hinge is determined from the outside of the door to which it is applied
- The outside of a cupboard, bookcase or closet door is the room side. For other doors, the outside is usually the side from which security is necessary



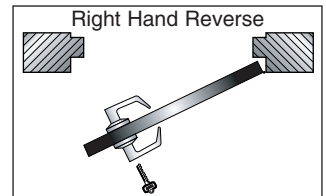
Left hand door takes left hand hinges



Left hand reverse door takes right hand hinges

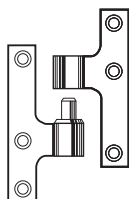


Right hand door takes right hand hinges

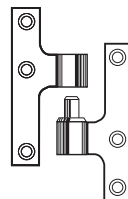


Right hand reverse door takes left hand hinges

- It will be observed that this method of determining the hand of loose joint cabinet hinges is exactly the opposite from the furniture manufacturers' standard rule
- To determine the hand of a loose joint hinge: open the hinge with its face toward you. If the knuckle of the right leaf is at the bottom, it is a right hand hinge. If the knuckle of the left leaf is at the bottom, it is a left hand hinge



Left Hand Two-Knuckle Hinge



Right Hand Two-Knuckle Hinge

Hinge Metals

Base Metals obtainable

Steel
Brass
Bronze
Stainless steel

- On interior doors or in non-corrosive environment use:
 - 1) Steel – painted or plated
- On interior labeled doors use:
 - 1) Steel – painted or plated
 - 2) Stainless steel
- On interior doors in a corrosive environment use:
 - 1) Stainless steel
 - 2) Brass or bronze
- On exterior doors use:
 - 1) Stainless steel
 - 2) Brass or bronze

Hinge Finishes

Steel Hinges

Prime coated for painting

- Phosphated then prime coated or painted
- Phosphating allows for a strong bond between the base metal and paint
- Ample paint clearance is provided between the barrel and the inner edges of the leaves

Polished or Plated

- The steel is first polished, then plated in desired finish

Steel hinges – Chromium plated

- Chromium plating is applied over a plating of nickel
- This method conforms strictly to requirements listed in ANSI/BHMA standard A156.18
- Chromium does not tarnish. The nickel underneath the chromium affords considerable rust protection but for absolute assurance against rusting, choose a non-ferrous base metal

Rust-Resisting "K" Base

- A "K" prefix to the class number of plated steel hinges (except chromium) indicates a coating of copper in addition to the final finish
- On prime coated and painted hinges, "K" prefix indicates a zinc undercoat that is applied prior to painting
- When ordering this extra rust-resisting base, insert the letter "K" as a prefix to the class number and suffix the final finish symbol i.e., CBK1900R(USP) FBBK179(US10)
- Rust – resisting base affords additional protection to a ferrous substrate. It should not be regarded as rust proof, but rust resistant. For absolute assurance against red rust, non-ferrous base metal should be selected.

Brass or Bronze Hinges

- Polished and finished
- Cannot rust
- Pins are made of stainless steel
- For brass or bronze hinges, finished other than natural we reserve the option to use either brass or bronze material

Stainless Steel Hinges

- Furnished in bright or satin finishes
- Tips and pins are stainless steel

See next two pages for Stanley finish symbols and ANSI/BHMA numbers for materials and finishes.

GENERAL HINGE INFORMATION

Stanley Finish Symbols and ANSI/BHMA Finish Numbers

Specify finish by suffixing Stanley symbol or ANSI/BHMA number to class number

Stanley Hardware Finish Symbol	General Description	Base Material					
		Steel	Brass	Bronze	Stainless Steel	Aluminum	Zinc
1D	Black coated	693	693	693	693	693	693
2C	Zinc plated	663	—	—	—	—	—
3	Bright brass	632	605	—	—	666	677
3A	Bright brass, no lacquer, on brass metal only	—	—	—	—	—	—
4	Satin brass	633	606	—	—	—	678
5	Satin brass, blackened, satin relieved, clear coated	638	609	—	—	—	—
9	Bright bronze	637	—	611	—	705	679
10	Satin bronze	639	—	612	—	668	680
10A*	Satin bronze, oxidized, relieved, clear coated	641	—	614	—	—	—
10B*	Satin bronze, oxidized and oil rubbed on bronze metal only	—	—	613	—	—	—
10BL*	Satin bronze, oxidized, lacquered	641	—	—	—	—	—
14	Nickel plated, bright	645	618	618	—	669	—
15	Nickel plated, satin	646	619	619	—	670	—
17A	Nickel plated, imitation half-polished iron oxidized and relieved	648	621	621	—	—	—
20*	Statuary bronze	649	—	623	—	—	—
20A*	Statuary bronze, dark	650	—	624	—	—	—
26	Bright chromium plated,	651	625	625	—	672	681
26D	Satin chromium plated	652	626	626	—	702	682
27	Satin aluminum metal, lacquered	—	—	—	—	627	—
28	Satin aluminum, anodized	—	—	—	—	628	—
32	Stainless steel metal, bright	—	—	—	629	—	—
32D	Stainless steel metal, satin	—	—	—	630	—	—
P	Primed for painting or staining (over a phosphated base)	600	—	—	—	—	674
A6	Antique bronze	—	—	—	—	—	—
AL	Aluminum, clear coated	—	—	—	—	673	—
BC	Black chrome, bright	686	684	684	—	—	—
BCD	Black chrome, satin	687	685	685	—	—	—
D4	Satin or antique copper on smooth surface	—	—	—	—	—	—
D7	Bright copper finish	—	—	—	—	—	—
DD	Dark bronze, painted	690	690	690	690	690	690
DDI	Dark Duranodic, painted	695	695	695	695	695	695
DL	Light bronze, painted	691	691	691	691	691	691
DM	Medium bronze, painted	694	694	694	694	694	694
F4	Satin brass, blackened, satin relieved, clear coated	—	—	—	—	—	—
F6	Dark statuary brass	650	—	—	—	—	—
F8	Antique brass	—	—	—	—	—	—
LA	Aluminum lacquer	—	—	—	—	—	—
PS	Plain steel – unfinished	—	—	—	—	—	—
ST4C	Satin brass tone	604	—	—	—	—	—

*Finishes 10A, 10B, 10BL, 20, and 20A will be furnished to our standards

GENERAL HINGE INFORMATION

Complete ANSI/BHMA Numbers for Materials and Finishes

FINISH CODE NUMBERS				FINISH CODE NUMBERS			
Code	Description	Base Material	Nearest/ Former U.S. Equivalent	Code	Description	Base Material	Nearest/ Former U.S. Equivalent
600	Primed for pointing	Steel	P	650	Dark oxidized statuary bronze plated, clear coated	Steel	20A
601	Bright Japanned	Steel	1B	651	Bright chromium plated	Steel	26
603	Zinc plated	Steel	2G	652	Satin chromium plated	Steel	26D
604	Zinc plated and dichromate sealed	Steel		653	Bright Stainless steel	Stainless steel	
605	Bright brass, clear coated	Brass	3			400 series	
606	Satin brass clear coated	Brass	4	654	Satin stainless steel	Stainless steel	
607	Oxidized satin brass, oil rubbed	Brass				400 series	
608	Oxidized satin brass, relieved, clear coated	Brass		655	Light oxidized satin bronze bright relieved, clear coated	Bronze	13
609	Satin brass, blackened, satin relieved, clear coated	Brass	5	656	Light oxidized satin bronze plated, bright relieved, clear coated	Steel	13
610	Satin brass, blackened, bright relieved, clear coated	Brass	7	657	Dark oxidized copper plated, satin relieved, clear coated	Steel	
611	Bright bronze, clear coated	Bronze	9	658	Dark oxidized copper plated, bright relieved, clear coated	Steel	
612	Satin bronze, clear coated	Bronze	10	659	Light oxidized copper plated, satin relieved, clear coated	Steel	
613	Dark oxidized satin bronze, oil rubbed	Bronze	10B	660	Light oxidized copper plated bright relieved, clear coated	Steel	
614	Oxidized satin bronze, relieved, clear coated	Bronze		661	Oxidized satin copper, relieved, clear coated	Steel	
615	Oxidized satin bronze, relieved, waxed	Bronze		662	Satin brass plated, browned, satin relieved, clear coated	Steel	
616	Satin bronze, blackened, satin relieved, clear coated	Bronze	11	663	Zinc plated with clear chromate seal	Steel	
617	Darkened oxidized satin bronze, bright relieved, clear coated	Bronze	13	664	Cadmium plated with clear chromate seal	Steel	
618	Bright nickel plated, clear coated	Brass, Bronze	14	665	Cadmium plated with iridescent dichromate	Steel	
619	Satin nickel plated, clear coated	Brass, Bronze	15	666	Bright brass plated, clear coated	Aluminum	3
620	Satin nickel plated, blackened, satin relieved, clear coated	Brass, Bronze	15A	667	Satin brass plated, clear coated	Aluminum	4
621	Nickel plated, blackened, relieved, clear coated	Brass, Bronze	17A	668	Satin bronze plated, clear coated	Aluminum	10
622	Flat black coated	Brass, Bronze	19	669	Bright nickel plated	Aluminum	14
623	Light oxidized statuary bronze, clear coated	Bronze	20	670	Satin nickel plated	Aluminum	15
624	Dark oxidized statuary bronze, clear coated	Bronze	20A	671	Flat black coated	Aluminum	19
625	Bright chromium plated	Brass, Bronze	26	672	Bright chromium plated	Aluminum	26
626	Satin chromium plated	Brass, Bronze	26D	673	Aluminum clear coated	Aluminum	
627	Satin aluminum, clear coated	Aluminum	27	674	Primed for painting	Zinc	P
628	Satin aluminum, clear anodized	Aluminum	28	675	Dichromate sealed	Zinc	
629	Bright stainless steel	Stainless steel	32	676	Flat black coated	Zinc	19
		300 series		677	Bright brass plated, clear coated	Zinc	3
630	Satin stainless steel	Stainless steel	32D	678	Satin brass plated, clear coated	Zinc	4
		300 series		679	Bright bronze plated, clear coated	Zinc	9
631	Flat black coated	Steel	19	680	Satin bronze plated, clear coated	Zinc	10
632	Bright brass plated, clear coated	Steel	3	681	Bright chromium plated	Zinc	26
633	Satin brass plated, clear coated	Steel	4	682	Satin chromium plated	Zinc	26D
634	Oxidized satin brass oil rubbed	Steel		683	Oxidized satin brass plated, oil rubbed	Zinc	
635	Oxidized satin brass plated, relieved, clear coated	Steel		684	Black chrome, bright	Brass, Bronze	
636	Satin brass plated, blackened, bright relieved, clear coated	Steel	7	685	Black chrome, satin	Brass, Bronze	
637	Bright bronze plated, clear coated	Steel	9	686	Black chrome, bright	Steel	
638	Satin brass plated, blackened, satin relieved, clear coated	Steel	5	687	Black chrome, satin	Steel	
639	Satin bronze plated, clear coated	Steel	10	688	Satin aluminum, gold anodized	Aluminum	4
640	Oxidized satin bronze plated over copper plate, oil rubbed	Steel	10B	689	Aluminum painted	Any	28
641	Oxidized satin bronze plated, relieved, clear coated	Steel		690	Dark bronze painted	Any	20
642	Oxidized satin bronze plated, relieved, waxed	Steel		691	Light bronze painted	Any	10
643	Satin bronze plated, blackened, satin relieved, clear coated	Steel	11	692	Tan painted	Any	
644	Dark oxidized satin bronze plated, bright relieved, clear coated	Steel	13	693	Black painted	Any (Black Aluminum Hard Coat)	
645	Bright nickel plated, clear coated	Steel	14	694	Medium bronze painted	Any (Medium Bronze Aluminum Hard Coat)	
646	Satin nickel plated, clear coated	Steel	15	695	Dark bronze painted	Any (Dark Bronze Aluminum Hard Coat)	
647	Satin nickel plated, blackened, satin relieved, clear coated	Steel	15A	696	Satin brass painted	Any	4
648	Nickel plated, blackened relieved, clear coated	Steel	17A	697	Bright brass plated, clear coated	Plastic	3
649	Light oxidized bright bronze plated, clear coated	Steel	20	698	Satin brass plated, clear coated	Plastic	4
				699	Satin bronze plated, clear coated	Plastic	10
				700	Bright chromium plated	Plastic	26
				701	Satin chromium plated	Plastic	26D
				702	Satin chromium plated	Aluminum	26D
				703	Oxidized satin bronze plated, oil rubbed	Aluminum	10B
				704	Oxidized satin bronze plated, oil rubbed	Zinc	10B

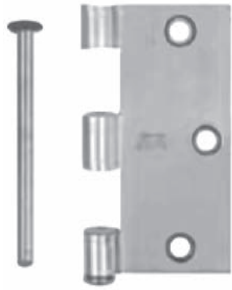
HINGE TYPE AND DESIGN SELECTION CHART

				3 Knuckle Concealed Bearing Shown	3 Knuckle CB			
					Std. Weight Steel	Non-ferrous	Heavy Weight Steel	Non-ferrous
	Full Mortise	Doors Solid Core Wood Hollow Metal Mineral Core Wood Doors w/ minimum 3/4" Edge Style	Frames Wood Hollow Metal		CB1900R	CB1960R	CB1901R	CB1961R
	Half Mortise	Doors Solid Core Wood Hollow Metal	Frames Channel Iron Tubular		CB1920R	CB1980R	CB1921R	CB1981R
	Half Surface	Doors Hollow Core Wood Mineral Core Wood Doors with less than 3/4" Edge Style	Frames Wood Hollow Metal		CB1910R	CB1970R	CB1911R	CB1971R
	Full Surface	Doors Hollow Core Wood Kalamein	Frames Channel Iron Tubular		CB1930R	CB1990R	CB1931R	CB1991R
	Swing Clear Full Mortise	Doors Wood	Frames Hollow Metal		CB1946R for beveled edge doors CB1947R for square edge doors	STS CB1946R for beveled edge doors STS CB1947R for square edge doors	CB1948R for square edge doors CB1949R for beveled edge doors	STS CB1948R for square edge doors STS CB1949R for beveled edge doors
	Swing Clear Half Mortise	Doors Wood	Frames Channel Iron		—	—	CB1941R for square edge doors CB1942R for beveled edge doors	STS CB1941R for square edge doors STS CB1942R for beveled edge doors
	Swing Clear Half Surface	Doors Mineral Core	Frames Hollow Metal		—	—	CB1959R	STS CB1959R
	Swing Clear Full Surface	Doors Mineral Core	Frames Channel Iron		—	—	CB1951R	STS CB1951R
	Pivot Reinforced Full Mortise	Doors Solid Core Wood Hollow Metal	Frames Hollow Metal		—	—	CB1907R frame plate only CB1908R frame & door plate for square edge doors CB1909R frame & door plate for beveled edge doors	CB1967R frame plate only CB1968R frame & door plate for square edge doors CB1969R frame & door plate for beveled edge doors

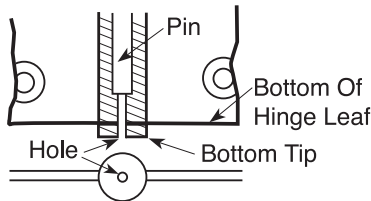
3 Knuckle Plain Bearing Std. Weight Steel | Non-ferrous		5 Knuckle CB Std. Weight Steel | Non-ferrous | Heavy Weight Steel | Non-ferrous				5 Knuckle FBB Std. Weight Steel | Non-ferrous | Heavy Weight Steel | Non-ferrous				5 Knuckle Plain Bearing Std. Weight Steel | Non-ferrous	
1900R	1960R	CB179	CB191	CB168	CB199	FBB179	FBB191	FBB168	FBB199	F179	F191
1920R	—	CB167	CB108	CB138	CB98	FBB167	FBB108	FBB138	FBB98	F167	—
1910R	—	CB173	CB112	CB163	CB113	FBB173	FBB112	FBB163	FBB113	F173	—
—	—	CB171	CB110	CB169	CB109	FBB171	FBB110	FBB169	FBB109	—	—
1947R for square edge doors	—	CB248 for square edge doors	STSCB248 for square edge doors	CB268 for square edge doors	STSCB268 for square edge doors	FBB248 for square edge doors	STSFBB248 for square edge doors	FBB268 for square edge doors	STSFBB268 for square edge doors	F248 for square edge doors	—
		CB258 for beveled edge doors	STSCB258 for beveled edge doors	CB278 for beveled edge doors	STSCB278 for beveled edge doors	FBB258 for beveled edge doors	STSFBB258 for beveled edge doors	FBB278 for beveled edge doors	STSFBB278 for beveled edge doors		
—	—	—	—	CB264 for square edge doors	STSCB264 for square edge doors	—	—	FBB264 for square edge doors	STSFBB264 for square edge doors	—	—
—	—	—	—	CB274 for beveled edge doors	STSCB274 for beveled edge doors	—	—	FBB274 for beveled edge doors	STSFBB274 for beveled edge doors	—	—
—	—	—	—	CB269	STSCB269	—	—	FBB269	STSFBB269	—	—
—	—	—	—	CB266	STSCB266	—	—	FBB266	STSFBB266	—	—
—	—	—	—	CB211 frame plate only	CB221 frame plate only	—	—	FBB211 frame plate only	FBB221 frame plate only	—	—
—	—	—	—	CB212 frame & door plate for square edge doors	CB222 frame & door plate for square edge doors	—	—	FBB212 frame & door plate for square edge doors	FBB222 frame & door plate for square edge doors	—	—
—	—	—	—	CB213 frame & door plate for beveled edge doors	CB223 frame & door plate for beveled edge doors	—	—	FBB213 frame & door plate for beveled edge doors	FBB223 frame & door plate for beveled edge doors	—	—

GENERAL HINGE INFORMATION

Pin Design

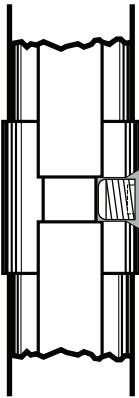


- **Non-rising pin** construction features an easily seated pin that will not rise
- Hole in bottom tip provides for easy pin removal on button and flush tip hinges
- Pin is removed by inserting a punch or a thin rod through bottom hole of tip and tapping upward
- Helps prevent marring of the hinge or hinge finish
- Standard feature on size 3" x 3" (76mm x 76mm) and larger hinges

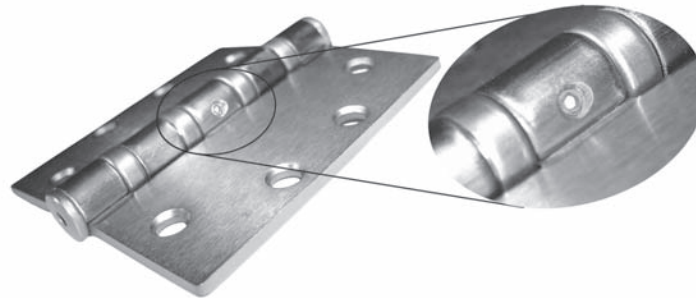


Perforated Bottom Tip

Non-Removable Pins

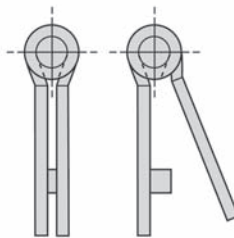


- NRP – Set screw in barrel intercepts groove in loose pin as shown. Set screw is not accessible when door is closed. Not available on size 3" (76mm) and smaller. Specify "**NRP**" (non-removable pin) when ordering



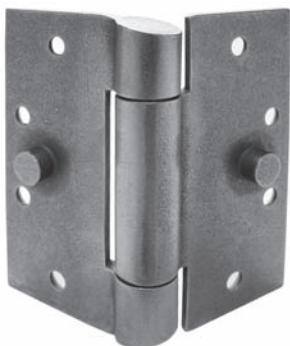
Use 3/32" hex wrench

Security Stud



- Full mortise hinges are available with security studs for added safety
- With the door in its closed position, a stud attached to one leaf of the hinge projects into a hole in the matching leaf
- Hinged side of door cannot be moved, even with hinge pins removed, because the stud prevents the leaves from being slid apart
- Specify "**with security stud**" when ordering

Shear Resistant Stud



- Optional feature for prison hinges
- Withstands 200 foot pound (271.2-J) ram test
- Dimensionally consistent
- Keeps hinge in position even if all the screws break under attack
- Studs engage into door and frame
- Specify "**SRS**" when ordering

GENERAL HINGE INFORMATION

Special Situation Products

Raised Barrel Hinges

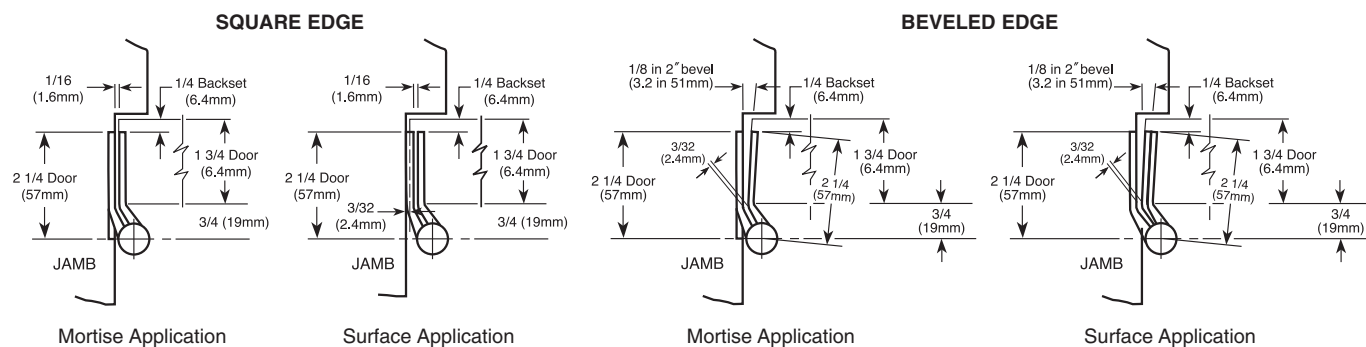
Specify hand of door when ordering
 Specify whether hinges are for square edge or beveled edge doors on the hinge side
 Specify equal or unequal leaves when ordering



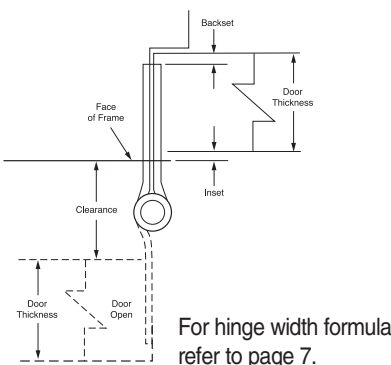
- For application where doors are set deep on a wide frame
- Frame leaf may be either surface mounted or mortised as illustrated in sketches below
- Available special for doors that must open 180 degrees
- Supply detail of door and frame condition
- For other hinge types than listed below, consult factory

Can be furnished on the following class numbers:

RBCB179	RBCB191	RBCB168	RBCB199
RFBB179	RFBB191	RFBB168	RFBB199
RBCB1900R	RBCB1960R	RBCB1901R	RBCB1961R



- A full mortise hinge with wider than normal leaves, positions the door out further, when open, than with conventional hinges
- Normally used when doors are set in a reveal and are required to open 180°
- **Specify whether hinges are for square or beveled edge doors on the hinge side when ordering**

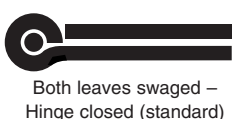


Wide Throw Hinge



Hinge Swaging

- Swaging is a slight offset of the hinge leaf at the barrel which permits the leaves to come closer together when parallel
- Hinges are slightly less in width when both leaves are not swaged
- Not swaged leaf is shorter when only one leaf is swaged. EXCEPTION: Specify "leaves must be equal" when ordering template hinges for metal door and metal frame (furnished all machine screws) when both leaves must be the same width
- When leaves are parallel, standard swaging for most architectural hinges provides a 1/16" (1.6mm) clearance.



GENERAL HINGE INFORMATION

Special Situation Products

- “CE” Concealed electric hinges conduct current regardless of door position to electric locks, exit devices, or hold open devices where tamper-proof hinge is required. Also to transmit signals from code readers on doors to remote computers for access control
- No electrical parts are exposed when hinge is installed
- Permanent fast pin
- Hinges should be installed in the center hinge location
- Not available as swing clear or raised barrel
- Hinges may be equipped with both concealed wires and concealed switches. When both are desired on the same hinge use prefix “CECS”
- Packed one per box with all machine screws and installation instructions
- When ordering specify class number, size, finish and number of wires, Suffix -54 for 4 wires, 56 for 6 wires -66 for 6 wires (2@24AWG, 4@28AWG), 58 for 8 wires or 10 for 10 wires -18 for 8 wires (2@18AWG, 6@28AWG)
- Should be used along with a junction box
- Can be furnished with hospital tips

CECB179
CECB168
CECB191
CECB199
 5-Knuckle
 Concealed
 Bearings



CEFB179
CEFB168
CEFB191
CEFB199
 5-Knuckle
 Exposed
 Bearings



CECB1900R
CECB1901R
CECB1960R
CECB1961R
 3-Knuckle
 Concealed
 Bearings



Not
 Handed



Not
 Handed



Handed
 Specify
 RH or LH



Electrical Ratings for -54-56-58-10-66 Models

Suffix	# Wires	Wire Gage	Volts (AC or DC)
			6, 12, 24 Current
-54	4	28AWG	1 amp/wire
-56	6	28AWG	.7 amp/wire
-58	8	28AWG	.5 amp/wire
-10	10	28AWG	.4 amp/wire
-66*	6	2@24AWG 4@28AWG	2 amp/wire 1 amp/wire

Inrush 15A for .05 second/wire
 “CE” hinges are listed by UL at these ratings
 * Not available in FBB168 and FBB199

Class Number

Class Number	Sizes Available
CB179, FBB179, CB1900R	4 1/2" x 4" (114mm x 102mm)
CB168, FBB168, CB1901R	4 1/2" x 4 1/2" (114mm x 114mm)
CB191, FBB191, CB1960R	5" x 4" (127mm x 102mm)
CB199, FBB199, CB1961R	5" x 4 1/2" (127mm x 114mm)
	5" x 5" (127mm x 127mm)
	6" x 4 1/2" (152mm x 114mm)
	6" x 5" * (152mm x 127mm)
	6" x 6" * (152mm x 152mm)

* Not available in CB191, FBB191, CB1900R and CB1960R

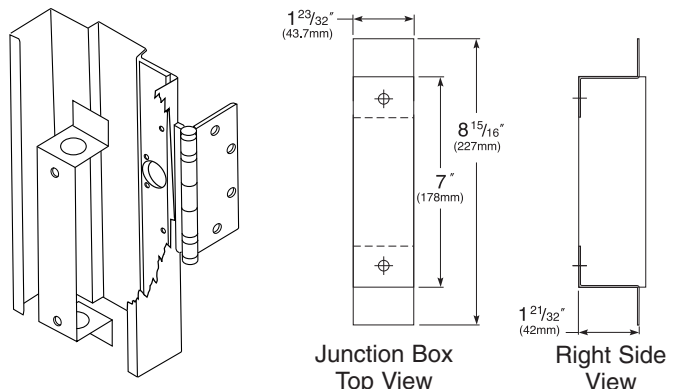
Electrical Ratings for -18 Model

Suffix	# Wires	Wire Gage	Volts (AC or DC)
			6, 12, 24 Current
-18*	8	2@18AWG 6@28AWG	10 amp/wire .7 amp/wire

Inrush 20A for 4 seconds/wire “CE” hinges are listed by UL at these ratings.
 * Available in CB179, CB168, CB191, CB199 only in 4 1/2" x 4", 4 1/2" x 4 1/2", 5" x 4 1/2". For other sizes consult factory

JB2R – Junction Box

- Note: Install in middle hinge location
- Can be shop welded or field installed - before frames are set
- Fits either 4 1/2" (114mm) or 5" (127mm) size hinges



GENERAL HINGE INFORMATION

Special Situation Products

- “CS” (Concealed Switch) Allows opening monitoring, switch operates when door is either open or closed.
Used to activate alarms, monitoring devices, or other security equipment when a tamper-proof hinge is required
- Single pole double throw switch
- Packed one per box with screws and installation instructions
- No electrical parts are exposed when hinge is installed
- Hinges should be installed in the center hinge location
- When ordering specify class number, size, finish and hand of door
- Hinges are available as follows:
 - with Non-Removable Pins (NRP)
 - with Hospital Tips (HT)

CSCB179
CSCB168
CSCB191
CSCB199
5-Knuckle
Concealed
Bearings



CSFBB179
CSFBB168
CSFBB191
CSFBB199
5-Knuckle
Exposed
Bearings



CSCB1900R
CSCB1901R
CSCB1960R
CSCB1961R
3-Knuckle
Concealed
Bearings



Electrical Ratings		
Volts AC or DC	Current Rating	
	Resistive	Inductive
6	.30amp	.30amp
12	.25amp	.25amp
24	.20amp	.15amp
48	.15amp	.12amp

Class Number			Sizes Available	
CB179,	FBB179,	CB1900R	4 1/2" x 4"	(114mm x 102mm)
CB168,	FBB168,	CB1901R	4 1/2" x 4 1/2"	(114mm x 114mm)
CB191,	FBB191,	CB1960R	5" x 4"	(127mm x 102mm)
CB199,	FBB199,	CB1961R	5" x 4 1/2"	(127mm x 114mm)
			5" x 5"	(127mm x 127mm)
			6" x 4 1/2"	(152mm x 114mm)
			6" x 5"*	(152mm x 127mm)
			6" x 6"*	(152mm x 152mm)

* Not available in CB191, FBB191 and CB1960

Hinges may be equipped with both concealed wires and concealed switch. When both are desired use prefix CECS. Specify hand.



5-Knuckle
Concealed Bearings



5-Knuckle
Ball Bearings



3-Knuckle
Concealed Bearings

GENERAL HINGE INFORMATION

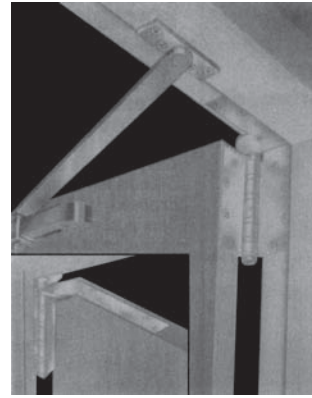
Special Situation Products

Pivot Reinforced Hinges

Designed to reduce door maintenance

THEY'RE SHOCKPROOF

- The Stanley pivot reinforced hinge is recommended for use on doors that get hard usage, especially those equipped with overhead door holders that bring doors to sudden, jarring stops
- Combines a pivot and a butt hinge in one compact, interlocked unit, in which they share the same pin to assure perfect alignment

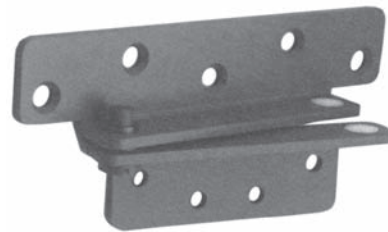


See
3 Knuckle
Hinge Section

See
5 Knuckle
Hinge Section

Shock Arrestor

- Protects against loosened screws and bent hinge leaves.
- 225R – Solid steel



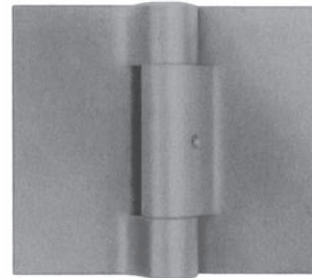
See
Miscellaneous
Door Hardware
Section

Double Weight Hinges

**Full Surface*, Ball Bearing
BB855 5x6**

Steel – with welded pin, – phosphated and prime coated for painting

- Made of double weight steel capable of carrying doors weighing up to 800 lbs. (362 Kg)



See
Detention
Hardware
Section

Triple Weight Hinges

**Full Surface*, Ball Bearing
BB852 5x6**

Steel – with welded pin, – phosphated and prime coated for painting

- Made of triple weight steel capable of carrying doors weighing up to 2000 lbs. (906 Kg)



See
Detention
Hardware
Section

Slip-In Hinges for Aluminum Doors and Frames

Slip-in hinges – prefix “slip-in”

CB179, FBB179, CB1900R, CB191, FBB191 and CB1960R are available for “Slip-In” applications for aluminum doors and frames



See
3 Knuckle
Hinge Section

See
5 Knuckle
Hinge Section

GENERAL HINGE INFORMATION Special Situation Products

Swing Clear Hinges

- Wherever doors are required to meet barrier – free codes, or are required to swing completely out of the opening so that wide equipment can pass through without damaging doors and frames or the equipment



Full Mortise



Half Mortise



Full Surface



Half Surface

See
3 Knuckle
Hinge Section

See
5 Knuckle
Hinge Section

Decorative Hinges

Olive Knuckle

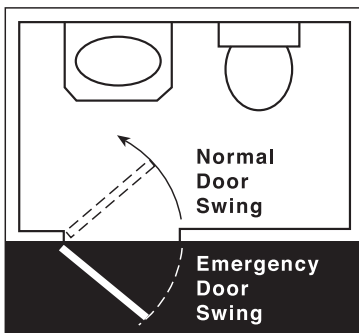


See
Miscellaneous
Door Hardware
Section

BB95 – 6" x 3 7/8" (152 x 98mm)

Hospital Emergency Rescue Hardware

- For application to doors from patient rooms to private baths. Permits door to normally swing into the bath, thus saving space, yet swing out into the bedroom in case of emergency when a patient is trapped inside

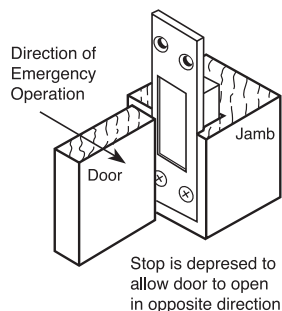
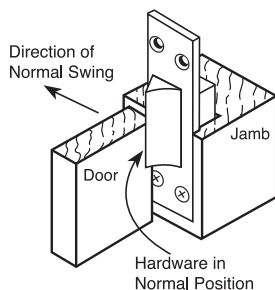


DAP-3
Double Acting Pivot



ES-1
Emergency
Door Stop

See
Emergency
Hardware
Section



DLS - 1
Double Lipped Strike
For 1/8" Inset Hung Doors



DLS - 2
Double Lipped Strike
For Center Hung Doors

GENERAL HINGE INFORMATION

HINGE TIPS

Button Tips



- Button tips are standard for all “F” line 5 knuckle hinges
- Button tip pins in standard weight steel hinges are made in one piece steel [except on 6” (152mm) sizes]

Hospital Tips



- Hospital type barrel ends are sloped, making cleaning easier, and making it difficult to attach rope, wearing apparel, etc. The pin is held in place by a cross pin for increased security. Prefix “HT” to class number
For “IHT” Institutional Hospital Tips see detention hardware section

Steeple Tips



- Solid brass steeple tips furnished on order at an extra cost by specifying “steeple tips” as a suffix to the class number. Available for “CB” and “F” lines
- See 3 knuckle and 5 knuckle hinge sections

Ball Tips



- Solid brass ball tips furnished on order at an extra cost by specifying “ball tips” as a suffix to the class number. Available for “CB” and “F” lines
- See 3 knuckle and 5 knuckle hinge sections

Crown Tips



- Solid brass crown tips furnished on order at an extra cost by specifying “crown tips” as a suffix to the class number. Available for “CB” and “F” lines
- See 3 knuckle and 5 knuckle hinge sections

GENERAL HINGE INFORMATION

Hinges For Fire Doors

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. (076 m) of door height or fraction thereof.

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*.

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			Minimum Hinge Size			Type Hinge	
	Width ft (m)	Height ft (m)	Height In. (mm)	Height In. (mm)	Thickness In. (mm)			
For 1 3/4 in. (44.5-mm) or Thicker Doors								
3, 1 1/2, 1, 3/4, 1/2, 1/3	4	(1.22)	10	(3.05)	4 1/2	(114.3)	0.180 (4.57)	Steel, mortise or surface
3, 1 1/2, 1, 3/4, 1/2, 1/3	4	(1.22)	8	(2.44)	4 1/2	(114.3)	0.134 (3.40)	Steel, mortise or surface
1 1/2, 3/4, 1/2, 1/3	3 1/2	(0.96)	8	(2.44)	6	(152.4)	0.225 (5.72)	Steel, olive knuckle or paumelle
3, 1 1/2, 3/4, 1/2, 1/3	4	(1.22)	10	(3.05)	4	(101.6)	0.225 (5.72)	Steel pivots (including top, bottom, and intermediate)
1 1/2, 1, 3/4, 1/2, 1/3	3	(0.91)	5	(1.52)	4	(101.6)	0.130 (3.30)	Steel, mortise or surface
1 1/2, 1, 3/4, 1/2, 1/3	2	(0.61)	3	(0.91)	3	(76.2)	0.092 (2.34)	Steel, mortise or surface
3, 1 1/2, 1, 3/4, 1/2, 1/3	3	(0.91)	7	(2.13)	4 1/2	(114.3)	0.134 (3.40)	Steel mortise or surface (labeled, self closing, spring type)
3, 1 1/2, 1, 3/4, 1/2, 1/3	3	(0.91)	7	(2.13)	4	(101.6)	0.105 (2.67)	Steel, mortise or surface (labeled, self closing, spring type)
For 1 3/8 in. (34.93-mm) Doors								
3, 1 1/2, 3/4, 1/2, 1/3	3	(0.91)	7	(2.13)	3 1/2	(88.9)	0.123 (3.12)	Steel, mortise or surface
3, 1 1/2, 1, 3/4, 1/2, 1/3	2 3/4	(0.81)	7	(2.13)	3 1/2	(88.9)	0.105 (2.67)	Steel, mortise or surface (labeled, self closing, spring type)

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.

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.

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GENERAL HINGE INFORMATION

ANSI/BHMA BUTTS and HINGES STANDARD and STANLEY EQUIVALENT NUMBERS

ANSI/BHMA NUMBER	STANLEY NUMBER	ANSI/BHMA NUMBER	STANLEY NUMBER
A1612	BB95	A8111	FBB168 • CB168
A1711	BB93		CB1901R
A1882	ES-1	A8112	FBB179 • CB179
A2111	FBB199 • CB199 • CB1961R		CB1900R
A2112	FBB191 • CB191 • CB1960R	A8121	FBB268 • CB268
A2133	F191		CB1948R
	1960R	A8122	FBB248 • CB248
A2141	FBB199 • CB199 Slip in Application B - Both leaves tapped		CB1947R
	CB1961R Slip in Application B - Both leaves tapped	A8123	F248
A2142	FBB191 • CB191 Slip in Application B - Both leaves tapped		1947R
	CB1960R Slip in Application B - Both leaves tapped	A8133	F179 • 1900R
A2143	F191 Slip in Application B - Both leaves tapped	A8141	FBB168 • CB168 Slip in Application B - Both leaves tapped
	1960R Slip in Application B - Both leaves tapped		CB1901R Slip in Application B - Both leaves tapped
A2151	FBB199 • CB199 Slip in Application A - One leaf tapped	A8142	FBB179 • CB179 Slip in Application B - Both leaves tapped
	CB1961R Slip in Application A - One leaf tapped		CB1900R Slip in Application B - Both leaves tapped
A2152	FBB191 • CB191 Slip in Application A - One leaf tapped	A8143	F179 • 1900R Slip in Application B - Both leaves tapped
	CB1960R Slip in Application A - One leaf tapped		
A2153	F191 Slip in Application A - One leaf tapped	A8151	FBB168 • CB168 Slip in Application A - One leaf tapped
	1960R Slip in Application A - One leaf tapped		CB1901R Slip in Application A - One leaf tapped
A2211	FBB98 • CB98	A8152	FBB179 • CB179 Slip in Application A - One leaf tapped
	CB1981R		CB1900R Slip in Application A - One leaf tapped
A2212	FBB108 • CB108	A8153	F179 Slip in Application A - One leaf tapped
	CB1980R		1900R Slip in Application A - One leaf tapped
A2311	FBB109 • CB109	A8211	FBB138 • CB138
	CB1991R		CB1921R
A2312	FBB110 • CB191	A8212	FBB167 • CB167
	CB1990R		CB1920R
A2361	FBB109½ • CB109½	A8221	FBB264 • CB264
A2411	FBB113 • CB113		CB1941R
	CB1971R	A8233	F167
A2412	FBB112 • CB112		1920R
	CB1970R	A8311	FBB169 • CB169
A2541	FBB221 • CB221		CB1931R
	CB1967R	A8312	FBB171 • CB171
	FBB222 • CB222		CB1930R
	CB1968R	A8321	FBB266 • CB266
	FBB223 • CB223		CB1951R
	CB1969R	A8361	FBB169½ • CB169½
A2742	DAP-3	A8381	BB855
A5111	FBB199 • CB199 (32, 32D)	A8391	BB852
	CB1961R (32, 32D)	A8411	FBB163 • CB163
A5112	FBB191 • CB191 (32,32D)		CB1911R
	CB1960R (32,32D)	A8412	FBB173 • CB173
A5133	F191 (32, 32D)		CB1910R
	1960R (32,32D)	A8421	FBB269 • CB269
A5211	FBB98 • CB98 (32, 32D)		CB1959R
	CB1981R (32, 32D)	A8433	F173
A5212	FBB108 • CB108 (32 32D)		1910R
	CB1980R (32,32D)	A8541	FBB211 • CB211
A5311	FBB109 • CB109 (32 32D)		CB1907R
	CB199R (32,32D)		FBB212 & CB212
A5312	FBB110 • CB110 (32, 32D)		CB1908R
	CB1990R (32, 32D)		FBB213 • CB213
A5361	FBB109½ • CB109½ (32, 32D)		CB1909R
A5411	FBB113 • CB113 (32, 32D)	A8711	BB143
	CB1971R (32, 32D)	A8712	BB140
A5412	FBB112 • CB112 (32, 32D)	A8753	340
	CB1970R (32, 32D)	A8773	341
A5541	FBB222 • CB222 (32D)	A8782	327
	CB1968R (32D)	A8783	342
	FBB223 • CB223 (32D)		
	CB1969R (32D)		

GENERAL HINGE INFORMATION

Cross Reference of Stanley's Hinge Designs

Old CB3K (1900/CB1900)	New CB3K (1900R/CB1900R)	CB5K	F/FBB
1900	1900R	F179*	F179
CB1900	CB1900R	CB179	FBB179
CB1900 (APP. A)	CB1900R (APP. A)	CB179 (APP. A)	FBB179 (APP. A)
CB1900 (APP. B)	CB1900R (APP. B)	CB179 (APP. B)	FBB179 (APP. B)
CB1901	CB1901R	CB168	FBB168
CB1907	CB1907R	CB211	FBB211
CB1908	CB1908R	CB212	FBB212
CB1909	CB1909R	CB213	FBB213
1910	1910R	F173*	F173
CB1910	CB1910R	CB173	FBB173
CB1911	CB1911R	CB163	FBB163
1920	1920R	F167*	F167
CB1920	CB1920R	CB167	FBB167
CB1921	CB1921R	CB138	FBB138
CB1930	CB1930R	CB171	FBB171
CB1931	CB1931R	CB169	FBB169
CB1941	CB1941R	CB264	FBB264
CB1942	CB1942R	CB274	FBB274
CB1946	CB1946R	CB258	FBB258
1947	1947R	F248*	F248
CB1947	CB1947R	CB248	FBB248
CB1948	CB1948R	CB268	FBB268
CB1949	CB1949R	CB278	FBB278
CB1951	CB1951R	CB266	FBB266
CB1959	CB1959R	CB269	FBB269
1960	1960R	F191*	F191
CB1960	CB1960R	CB191	FBB191
CB1960 (APP. A)	CB1960R (APP. A)	CB191 (APP. A)	FBB191 (APP. A)
CB1960 (APP. B)	CB1960R (APP. B)	CB191 (APP. B)	FBB191 (APP. B)
CB1961	CB1961R	CB199	FBB199
CB1967	CB1967R	CB221	FBB221
CB1968	CB1968R	CB222	FBB222
CB1969	CB1969R	CB223	FBB223
CB1970	CB1970R	CB112	FBB112
CB1971	CB1971R	CB113	FBB113
CB1980	CB1980R	CB108	FBB108
CB1981	CB1981R	CB98	FBB98
CB1990	CB1990R	CB110	FBB110
CB1991	CB1991R	CB109	FBB109

*Plain bearing companion hinge for all 5 knuckle designs.

Things to look for when looking for problems with door and frame alignment and mortise preparation:

- Check for visible damage on the door or frame.
- Square or plumb condition of the frame.
- Irregular surface or lamination of the frame construction.
- Hinge pins properly seated.
- All fasteners are secure and flush or below the surface of the hinge.
- Uniformity of all mortised surfaces, length, width, and depth on the frame as well as on the door.
- Hinge set too deep in the mortise and hinge barrel rubbing the door or frame.
- Mortise does not match the material thickness of the hinge. Too deep or too shallow will upset the swage design of the hinge.
- No interference from closers, latches, or door travel limiting devices.
- Door squareness, look for a bow or other irregularity.
- Closed door interference on top, bottom, or against the stop.



STANLEY
Hardware



For more information on Stanley Security Solutions' products, services, and office locations visit our web site at www.stanleysecuritysolutions.com

Product information contained in this catalog has been compiled and presented with as much care and completeness as is reasonably possible. Errors or mistakes may be present, and in many cases, reliance has been placed on information supplied by other manufacturers which may be in error or which may be subject to changes or modifications by the manufacturer without notice and without obligation. Therefore, no guarantee can be made or should be assumed or implied with regards to product information contained in this catalog.

STANLEY
Security Solutions

Stanley Security Solutions, Inc.

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10M 910
SAH006

STANLEY[®]
Security Solutions



3 KNUCKLE

CONCEALED BEARING HINGES

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

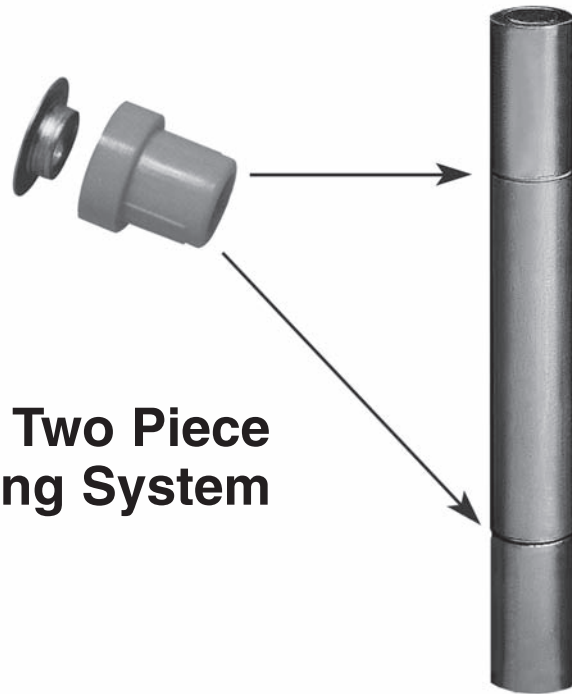
With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 160 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com

LifeSpan[®] Patented Two Piece Bearing System



- LifeSpan[®] bearing system is a revolutionary concept in bearing construction and materials developed by The Stanley Works. It eliminates metal to metal contact between knuckles by creating its own bearing surface between the washer and sleeve. As the stainless steel washer extends into the sleeve it eliminates metal-to-metal contact between the pin and barrel, resulting in a smooth, quiet operation superior to that of a ball bearing assembly.
- Vertical wear performance exceeds ANSI/BHMA Grade 1 standards by 50%.
- Lateral wear performance exceeds ANSI/BHMA Grade 1 standards by 90%.
- Fewer horizontal barrel lines provide an aesthetically pleasing appearance.
- CB1900R and 1900R series 3 knuckle hinge barrels are identical for consistent design appeal.
- LifeSpan[®] bearing system carries a limited lifetime warranty for the life of the building.
- Approved for use on all types of fire doors up to 4' x 10' (1219mm x 3048mm); 8' x 10' (2438mm x 3048mm) pairs, to maintain the integrity of fire rated openings and walls. **Refer to NFPA80.**
- Available with exposed tips (ET).

3 KNUCKLE FULL MORTISE HINGES

Standard Weight Concealed Bearing *LifeSpan*[®]

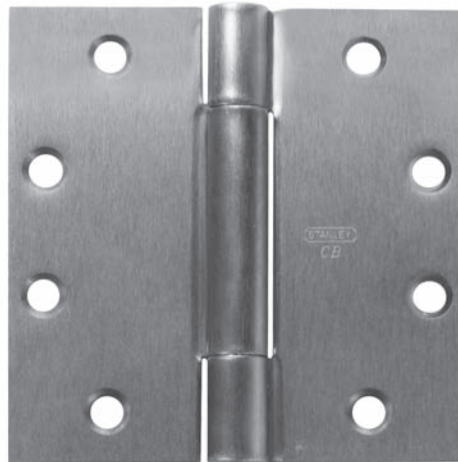
CB1900R – (ANSI A8112) Steel – polished and plated or phosphated and prime coated for painting

CB1960R – (ANSI A2112) Brass or bronze – polished and plated or painted

CB1960R (32) – (ANSI A5112) Stainless steel – highly polished

CB1960R (32D) – (ANSI A5112) Stainless steel – satin finish

- For medium weight doors of average frequency
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- LifeSpan[®] limited lifetime warranty
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with exposed tips (ET)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze		Steel	
							Lbs.	(Kg)	Lbs.	(Kg)	
3 1/2 x 3 1/2	(89 x 89)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	3 EA.	90 EA.	61	(28)	58	(26)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	45	(20)	43	(20)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	52	(24)	47	(21)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	56	(25)	52	(24)
5 x 4	(127 x 102)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	39	(18)	37	(17)
5 x 4 1/2	(127 x 114)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	43	(20)	38	(17)
5 x 5	(127 x 127)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	48	(22)	44	(20)
*6 x 6	(152 x 152)	.160	(4.1)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	66	(30)	60	(27)

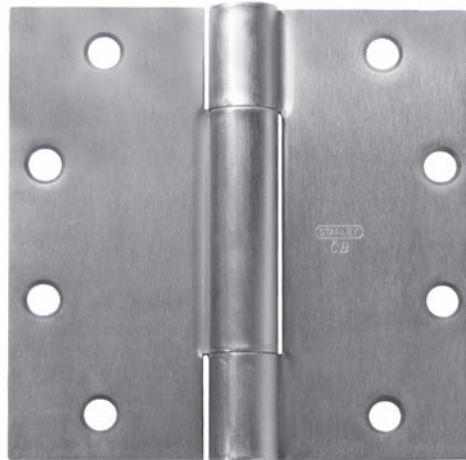
* Available in Steel only

Consult factory for other sizes not listed

Heavy Weight Concealed Bearing LifeSpan®

- CB1901R** – (ANSI A8111) Steel – polished and plated or phosphated and prime coated for painting
- CB1961R** – (ANSI A2111) Brass or bronze – polished and plated or painted
- CB1961R (32)** – (ANSI A5111) Stainless steel – highly polished
- CB1961R (32D)** – (ANSI A5111) Stainless steel – satin finish

- For heavy doors, or doors of high frequency, such as entrance doors to office buildings, stores, public buildings and corridor entrance doors to offices
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Concealed LifeSpan® bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- LifeSpan® limited lifetime warranty
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with exposed tips (ET)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze		Steel	
								Lbs.	(Kg)	Lbs.	(Kg)
4 1/2 x 4 1/2	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	49	(22)	42	(19)
5 x 4 1/2	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/2	3 EA.	24 EA.	46	(21)	40	(18)
5 x 5	(127 x 127)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/2	3 EA.	24 EA.	49	(22)	46	(21)
6 x 4 1/2	(152 x 114)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	60	(27)	53	(24)
6 x 5	(152 x 127)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	62	(28)	55	(25)
6 x 6	(152 x 152)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	72	(28)	64	(29)
8 x 6*	(203 x 152)	.203	(5.2)	16 - 1/4-20 x 1/2	16 - 14 x 1 1/2	3 EA.	12 EA.	—	—	51	(23)
8 x 8*	(203 x 203)	.203	(5.2)	16 - 1/4-20 x 1/2	16 - 14 x 1 1/2	3 EA.	12 EA.	—	—	61	(28)

*Available in Steel only

Consult factory for other sizes not listed

3 KNUCKLE HALF SURFACE HINGES

Standard Weight Concealed Bearing *LifeSpan*[®]

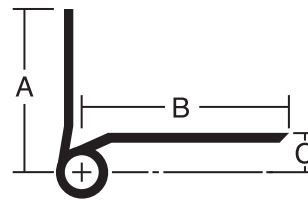
CB1910R – (ANSI A8412) Steel – polished and plated or phosphated and prime coated for painting

CB1970R – (ANSI A2412) Brass or bronze – polished and plated or painted

CB1970R (32) – (ANSI A5412) Stainless steel – highly polished

CB1970R (32D) – (ANSI A5412) Stainless steel – satin finish

- For medium weight wood, kalamein, or mineral core doors with edge rails that won't hold screws, hung on hollow metal frames, of average frequency
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan[®] limited lifetime warranty
- Available with exposed tips (ET)
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 (102)	1 13/16 (46)	2 1/4 (57.2)	1/2 (12.7)	.130 (3.3)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	48 EA.	56 (25)	47 (21)
4 1/2 (114)	2 1/16 (52.4)	2 9/16 (65.1)	9/16 (14.3)	.134 (3.4)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	44 (20)	37 (17)
5 (127)	2 1/16 (52.4)	2 7/8 (73)	9/16 (14.3)	.146 (3.7)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	48 (22)	39 (18)

Heavy Weight Concealed Bearing *LifeSpan*[®]

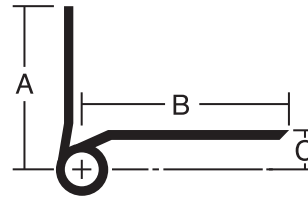
CB1911R – (ANSI A8411) Steel – polished and plated or phosphated and prime coated for painting

CB1971R – (ANSI A2411) Brass or bronze – polished and plated or painted

CB1971R (32) – (ANSI A5411) Stainless steel – highly polished

CB1971R (32D) – (ANSI A5411) Stainless steel – satin finish

- For heavy, or high frequency wood, or mineral core doors with edge rails that won't hold screws, hung on hollow metal frames
- Size 6" (152mm) also recommended for lead lined doors not exceeding 250lbs. (113Kg)
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Pins in nonferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan[®] limited lifetime warranty
- Available with exposed tips (ET)
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

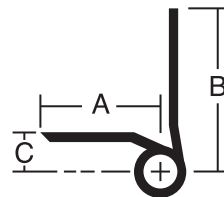
Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	2 1/8 (54)	2 9/16 (65)	5/8 (15.9)	.180 (4.6)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	59 (27)	47 (21)
5 (127)	2 1/8 (54)	2 7/8 (73)	5/8 (15.9)	.190 (4.8)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	58 (26)	48 (22)
6 (152)	2 1/8 (54)	3 1/4 (82.6)	5/8 (15.9)	.203 (5.2)	5-1/4-20 X 1/2	5-1/4-20 X 2	3 EA.	24 EA.	90 (41)	82 (37)

3 KNUCKLE HALF MORTISE HINGES

Standard Weight Concealed Bearing *LifeSpan*[®]

- CB1920R** – (ANSI A8212) Steel – polished and plated or phosphated and prime coated for painting
- CB1980R** – (ANSI A2212) Brass or bronze – polished and plated or painted
- CB1980R (32)** – (ANSI A5212) Stainless steel – highly polished
- CB1980R (32D)** – (ANSI A5212) Stainless steel – satin finish

- For medium weight hollow metal, or wood doors of average frequency, hung on channel iron frames
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- LifeSpan[®] limited lifetime warranty
- Available with exposed tips (ET)



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.134 (3.4)	3-12-24 X 1/2	4-12-24 X 1/2	3 EA.	30 EA.	30 (14)	24 (11)
5 (127)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.146 (3.7)	4-12-24 X 1/2	4-12-24 X 1/2	3 EA.	24 EA.	37 (17)	31 (14)

Heavy Weight Concealed Bearing *LifeSpan*[®]

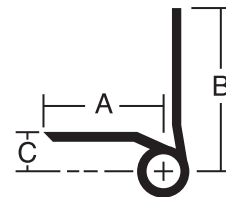
CB1921R – (ANSI A8211) Steel – polished and plated or phosphated and prime coated for painting

CB1981R – (ANSI A2211) Brass or bronze – polished and plated or painted

CB1981R (32) – (ANSI A5211) Stainless steel – highly polished

CB1981R (32D) – (ANSI A5211) Stainless steel – satin finish

- For heavy, or high frequency hollow metal, or wood doors, hung on channel iron frames
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- LifeSpan[®] limited lifetime warranty
- Available with exposed tips (ET)



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 1/8 (54)	1/2 (12.7)	.180 (4.6)	3-12-24 X 1/2	4-12-24 X 1/2	3 EA.	30 EA.	36 (17)	36 (17)
5 (127)	1 1/2 (38.1)	2 1/8 (54)	1/2 (12.7)	.190 (4.8)	4-12-24 X 1/2	4-12-24 X 1/2	3 EA.	24 EA.	36 (17)	36 (17)
6 (152)	1 1/2 (38.1)	2 1/8 (54)	1/2 (12.7)	.203 (5.2)	4-1/4-20 X 1/2	5-1/4-20 X 1/2	3 EA.	24 EA.	48 (22)	48 (22)

3 KNUCKLE FULL SURFACE HINGES

Standard Weight Concealed Bearing *LifeSpan*[®]

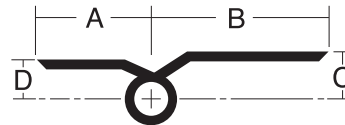
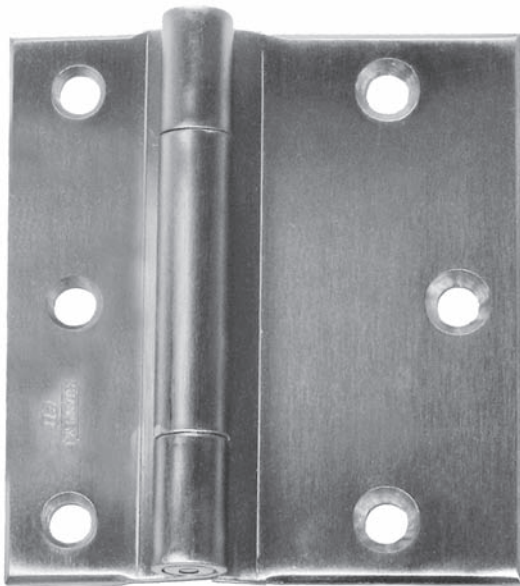
CB1930R – (ANSI A8312) Steel – polished and plated or phosphated and prime coated for painting

CB1990R – (ANSI A2312) Brass or bronze – polished and plated or painted

CB1990R (32) – (ANSI A5312) Stainless steel – highly polished

CB1990R (32D) – (ANSI A5312) Stainless steel – satin finish

- For medium weight mineral core, kalamein, or wood doors of average frequency, hung on channel iron frames
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan[®] limited lifetime warranty
- Available with exposed tips (ET)
- Packed with machine screws and grommet nuts for 1 3/4" doors



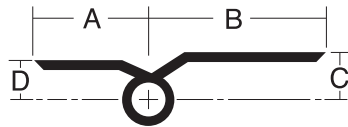
Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal	Flat head machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)	Door Leaf (C)	Frame Leaf (D)		Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 9/16 (65)	9/16 (14.3)	7/16 (11.1)	.134 (3.4)	3-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	40 (18)	38 (17)
5 (127)	1 1/2 (38.1)	2 7/8 (73)	9/16 (14.3)	7/16 (11.1)	.146 (3.7)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	43 (20)	39 (18)

Heavy Weight Concealed Bearing *LifeSpan*[®]

- CB1931R** – (ANSI A8311) Steel – polished and plated or phosphated and prime coated for painting
- CB1991R** – (ANSI A2311) Brass or bronze – polished and plated or painted
- CB1991R (32)** – (ANSI A5311) Stainless steel – highly polished
- CB1991R (32D)** – (ANSI A5311) Stainless steel – satin finish

- For heavy, or high frequency mineral core, or wood doors with edge rails that won't hold screws, hung on channel iron frames
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Size 6" (152mm) also recommended for lead lined doors not exceeding 250 lbs (113 Kg)
- Concealed LifeSpan[®] bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan[®] limited lifetime warranty
- Available with an inline hole pattern for tubular steel doors
- Available with exposed tips (ET)
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below



Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)	Door Leaf (C)	Frame Leaf (D)		Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 9/16 (65)	5/8 (15.9)	1/2 (12.7)	.180 (4.6)	3-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	56 (26)	44 (20)
5 (127)	1 1/2 (38.1)	2 7/8 (73)	5/8 (15.9)	1/2 (12.7)	.190 (4.8)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	57 (26)	51 (23)
6 (152)	1 1/2 (38.1)	3 1/4 (82.6)	5/8 (15.9)	1/2 (12.7)	.203 (5.2)	4-1/4-20 X 1/2	5-1/4-20 X 2	3 EA.	24 EA.	80 (36)	74 (34)

3 KNUCKLE HINGES SLIP-IN HINGES

Standard Weight Concealed Bearing – Application “A” *LifeSpan*[®]

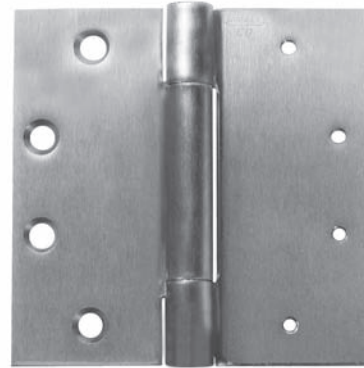
CB1900R – (ANSI A8152) Slip-in application “A”, Steel – polished and plated or painted

CB1960R – (ANSI A2152) Slip-in application “A”, Brass or bronze – polished and plated or painted

CB1960R (32) – (ANSI A5152) Slip-in application “A”, Stainless steel – highly polished

CB1960R (32D) – (ANSI A5152) Slip-in application “A”, Stainless steel – satin finish

- For aluminum doors with aluminum frames
- “Slip-in” application where one leaf of hinge is inserted through a slot in door or frame, and the other leaf mortised
- Application A – specify “swaged to provide $\frac{3}{16}$ ” (4.8mm) clearance between leaves when parallel and one leaf with standard punching and countersinking and other leaf drilled and tapped.” Specify hand desired.
- Round corners – use prefix “RD” and specify radius desired.
- Other types and sizes available on request
- Pins in nonferrous hinges are stainless steel
- Available with exposed tips (ET)
- Lifespan limited lifetime warranty



Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece*	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel Lbs.	(Kg)	Bronze Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	3 EA.	48 EA.	44	(20)	45	(21)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	3 EA.	48 EA.	52	(24)	55	(25)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	3 EA.	48 EA.	55	(25)	59	(27)

* For application A when used on wood doors, specify wood screws for door leaf

Standard Weight Concealed Bearing – Application “B” *LifeSpan*[®]

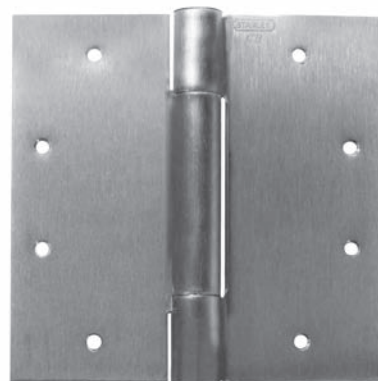
CB1900R – (ANSI A8142) Slip-in application “B”, Steel – polished and plated or painted

CB1960R – (ANSI A2142) Slip-in application “B”, Brass or bronze – polished and plated or painted

CB1960R (32) – (ANSI A5142) Slip-in application “B”, Stainless steel – highly polished

CB1960R (32D) – (ANSI A5142) Slip-in application “B”, Stainless steel – satin finish

- For aluminum doors with aluminum frames
- “Slip-in” application where both leaves of hinge are inserted through slots in door and frame
- Application B – specify “both leaves swaged to provide $\frac{5}{16}$ ” (7.9mm) clearance between leaves when parallel and both leaves drilled and tapped”
- Round corners – use prefix “RD” and specify radius desired.
- Other types and sizes available on request
- Pins in nonferrous hinges are stainless steel
- Not handed
- Available with exposed tips (ET)
- Lifespan limited lifetime warranty



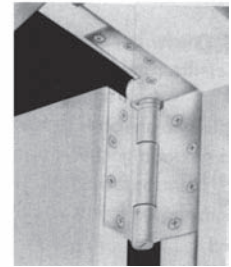
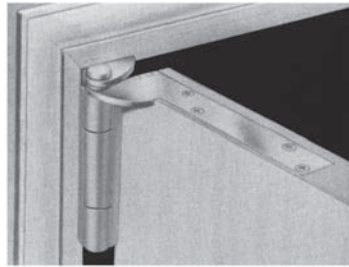
Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece*	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel Lbs.	(Kg)	Bronze Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	3 EA.	48 EA.	44	(20)	45	(21)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	3 EA.	48 EA.	52	(24)	55	(25)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	3 EA.	48 EA.	55	(25)	59	(27)

Heavy Weight Concealed Bearing *LifeSpan*[®]

Shock Proof!

- CB1907R – (ANSI A8541)
 - CB1908R – (ANSI A8541)
 - CB1909R – (ANSI A8541)
- } Steel – polished and plated or phosphated and prime coated for painting
- CB1967R – (ANSI A2541)
 - CB1968R – (ANSI A2541)
 - CB1969R – (ANSI A2541)
- } Bronze – polished and plated or painted
- CB1967R (32D) – (ANSI A5541)
 - CB1968R (32D) – (ANSI A5541)
 - CB1969R (32D) – (ANSI A5541)
- } Stainless steel – satin finish

- Ideal for any door that is subject to jarring or abusive handling
- The purpose of this two-in-one combination is to anchor and reinforce doors and frames exposed to damage from abuse in such installations, stresses are transferred to the top hinge
- A pivot and butt hinge are combined in one compact interlocked unit and share the same pin to assure perfect alignment. Interlocked corners prevent sidewise motion of pivot or butt leaves
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Beveled edge doors require a different door plate than square edge doors
- Short door plate [4" (102mm) min.] available for use with most concealed holders and closers – specify on order
- Handed left or right
- LifeSpan[®] limited lifetime warranty



Right Hand Shown

Class Number	Door Edge	Metal	Top Hinge*	Contents of Set		
				Intermediate and Bottom Hinge*		
				Number**	Inches	Size (mm)
CB1907R	Square or beveled 1/8" in 2" (3.2 in 51mm)	Steel	1-Type of CB1901R NRP X Frame plate ONLY	2-CB1901R-NRP	5 X 4 1/2	(127 X 114)
CB1908R	Square	Steel	1-Type of CB1901R NRP X Frame and door plate	2-CB1901R-NRP	5 X 4 1/2	(127 X 114)
CB1909R	Beveled 1/8" IN 2" (3.2 in 51 mm)	Steel	1-Type of CB1901R NRP X Frame and door plate	2-CB1901R-NRP	5 X 4 1/2	(127 X 114)
CB1967R	Square or beveled (3.2 in 51 mm)	Bronze or Stainless Steel	1-Type of CB1961R NRP X Frame plate ONLY	2-CB1961R-NRP	5 X 4 1/2	(127 X 114)
CB1968R	Square	Bronze or Stainless Steel	1-Type of CB1961R NRP X Frame and door plate	2-CB1961R-NRP	5 X 4 1/2	(127 X 114)
CB1969R	Beveled 1/8" in 2" (3.2 in 51mm)	Bronze or Stainless Steel	1-Type of CB1961R NRP X Frame and door plate	2-CB1961R-NRP	5 X 4 1/2	(127 X 114)

Class Number	Gauge of Metal Inches (mm)	Frame Plate			Door Plate			Flat Head Screws/Set		Sets Per Case	Case Weight Lbs. (Kg)
		Length Inches (mm)	Width Inches (mm)	Length Inches (mm)	Width Inches (mm)	Length Inches (mm)	Width Inches (mm)	Wood	Machine		
CB1970R	.190 (4.8)	5 (127)	1.25 (31.8)	...	...	...	...	28-12- X 1 1/2	28-12-24 X 1 1/2	1	6 (3)
CB1908R	.190 (4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	32-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
CB1909R	.190 (4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	32-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
CB1967R	.190 (4.8)	5 (127)	1.25 (31.8)	...	...	...	...	12-12- X 1 1/2	28-12-24 X 1 1/2	1	6 (3)
CB1968R	.190 (4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
CB1968R (32D)	.190 (4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
CB1969R	.190 (4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
CB1969R (32D)	.190 (4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)

* Hinges supplied with set screw in barrel, non-removable pin

** For doors over 7' 6" in height, specify additional hinges to order: specify catalog number, finish and hand

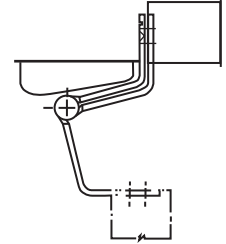
3 KNUCKLE SWING CLEAR HINGES

Standard Weight Plain Bearing “Swing Clear” Full Mortise



1947R – (ANSI A8123) Steel – polished and plated or phosphated and prime coated for painting

- Equipped with easily seated non-rising pins
- Reversible flush tips and pins
- Ideal for remodeling or new construction
- Available for full mortise application on square edge doors only
- Designed to replace existing 3 1/2" (89mm) or 4" (102mm) hinges for Swing Clear openings (some preparation modification typically required for residential use)
- Designed to swing doors completely clear of the opening when door is opened 95°



Class Number	Size Length of Joint		Gauge of Metal		Flat Head Wood Screws/ Per Piece	Quantity Per Box	Quantity Per Case	Case Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
1947R	3 1/2	(89)	.123	(3.1)	6-10 X 1	2 EA.	20 EA.	16	(7)
	4	(102)	.130	(3.3)	8-12 X 1 1/4	2 EA.	20 EA.	24	(11)

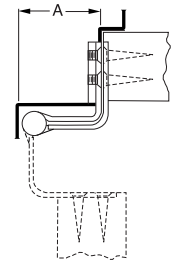
Standard Weight Concealed Bearing “Swing Clear” Full Mortise



CB1946R – (ANSI A8122) } Steel –
CB1947R – (ANSI A8122) } polished and plated or
phosphated and prime
coated for painting

STSCB1946R – (ANSI A5122) } Stainless Steel –
STSCB1947R – (ANSI A5122) } highly polished or
satin finish

- Reversible flush tips and pins
- Ideal for remodeling or new construction
- Specify CB1947R and STSCB1947R for full mortise application on square edge doors
- Specify CB1946R and STSCB1946R for full mortise application on bevel edge doors
- Designed to swing doors completely clear of the opening when door is opened 90°
- Concealed LifeStan® bearing for trouble-free, long life – no oil, no grease, no maintenance
- Hinges can be furnished with hospital tips (HT)
- LifeSpan® limited lifetime warranty
- Available with exposed tips (ET)



CB1947R (Shown) and STSCB1947R
{For square edge doors}

CB1946R and STSCB1946R
{For doors beveled 1/8" in 2" (3.2 in 51mm)}

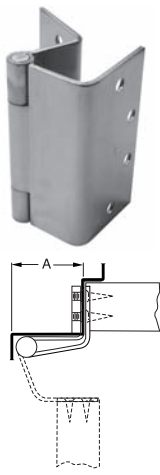
Class Number	Size Length of Joint		Minimum Clearance Required Dimensions "A"		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	inches	(mm)	inches	(mm)	inches	(mm)	Frame Leaf-Machine	Door Leaf-Wood			Lbs.	(Kg)
CB1946R, STSCB1946R	4 1/2	(114)	2 1/8	(54)	.134	(3.4)	4-12-24 X 1/2	4-12 X 1 1/4	3 EA.	24 EA.	36	(17)
CB1947R, STSCB1947R	4 1/2	(114)	2 1/8	(54)	.134	(3.4)	4-12-24 X 1/2	4-12 X 1 1/4	3 EA.	24 EA.	36	(17)

Heavy Weight Concealed Bearings "Swing Clear" Hinges

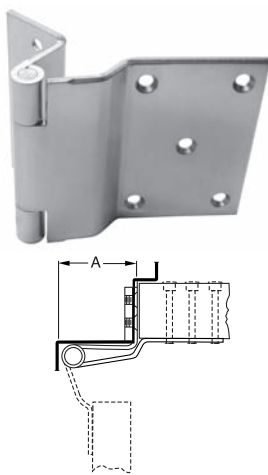


- | | | | |
|--|--|--|---|
| CB1948R – (ANSI A8121)
CB1949R† – (ANSI A8121)
CB1959R – (ANSI A8421)
CB1941R – (ANSI A8221)
CB1942R† – (ANSI A8221)
CB1951R – (ANSI A8321) | Steel –
polished and plated or
phosphated and prime
coated for painting | STSCB1948R – (ANSI A5121)
STSCB1949R† – (ANSI A5121)
STSCB1959R – (ANSI A5421)
STSCB1941R – (ANSI A5221)
STSCB1942R† – (ANSI A5221)
STSCB1951R – (ANSI A5321) | Stainless Steel –
highly polished
or satin finish |
|--|--|--|---|

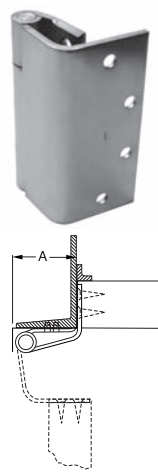
- For corridor doors to patients' rooms, operating rooms, emergency rooms, or wherever conditions require a completely clear opening in hospitals, institutions or public buildings
- Designed to swing doors completely clear of the opening when door is opened 95°
- Consult factory for hinges available to clear 90°
- Concealed LifeSpan® bearing for trouble-free, long life – no oil, no grease, no maintenance
- Pins in nonferrous hinges are stainless steel
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Hinges are polished and buffed then plated or phosphated and prime coated
- Hinges can be furnished with hospital tips (HT)
- Full surface and half surface hinges packed with flat head machine screws and grommet nuts for door leaf. Specify door thickness, if other than 1 3/4" (44mm)
- Consider using a back plate with full surface and half surface hinges
- For half mortise hinges and full surface hinges to fit narrow metal frames, consult factory
- LifeSpan® limited lifetime warranty
- Reversible flush tips and pins



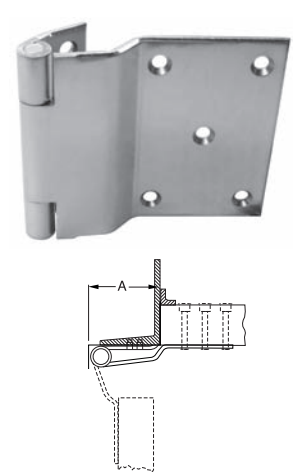
Full Mortise
CB1948R and STSCB1948R
 {For square edge doors} (shown)
CB1949R† and STSCB1949R†
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}



Half Surface
CB1959R
 and
STSCB1959R



Half Mortise
 For channel iron frames
CB1941R† and STSCB1941R†
 {For square edge doors} (shown)
CB1942R† and STSCB1942R†
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}



Full Surface
CB1951R and STSCB1951R
 For channel iron frames

Class Number	Size Length of Joint		Minimum Clearance Required Dimensions "A"		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	inches	(mm)	inches	(mm)	inches	(mm)	Frame Leaf-Machine	Door Leaf-Wood			Lbs.	(Kg)
CB1948R, STSCB1948R	4 1/2	(114)	2 1/8	(54)	.180	(4.6)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	31	(14)
CB1948R, STSCB1948R	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB1949R†, STSCB1949R†	4 1/2	(114)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	31	(14)
CB1949R†, STSCB1949R†	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB1959R, STSCB1959R	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	5-1/4-20 X 1 1/4 M.S.*	....	3 EA.	9	(4)
CB1941R, STSCB1941R	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB1942R†, STSCB1942R	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB1951R, STSCB1951R	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	5-1/4-20 X 1 1/4 M.S.*	3 EA.	15 EA.	35	(16)

* Furnished with through-bolts and grommet nuts.

† For doors beveled 1/8" IN 2" (3.2MM IN 51 MM) on hinge side.

For frame and door leaf dimensions refer to template furnished on request. If door closers, friction or overhead door holders are to be used in conjunction with these hinges, consult manufacturer of the device to be used for application details

3 KNUCKLE FULL MORTISE HINGES



Standard Weight Plain Bearing

1900R – (ANSI A8133) Steel – polished and plated or phosphated and prime coated for painting

1960R – (ANSI A2133) Brass or bronze – polished and plated or painted

1960R (32) – (ANSI A5133) Stainless Steel – polished

1960R (32D) – (ANSI A5133) Stainless Steel – satin finish

- For use on interior or exterior doors without door closers in hospitals, churches, schools, airports, hotels, malls, apartment houses, office buildings, etc.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with easily seated, non-rising pins
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- Use anti-friction bearing hinges on high and average frequency doors and all doors equipped with door closers
- Hinges can be furnished with hospital tips (HT)
- Available with exposed tips (ET)
- Available with non-removable pins (NRP)



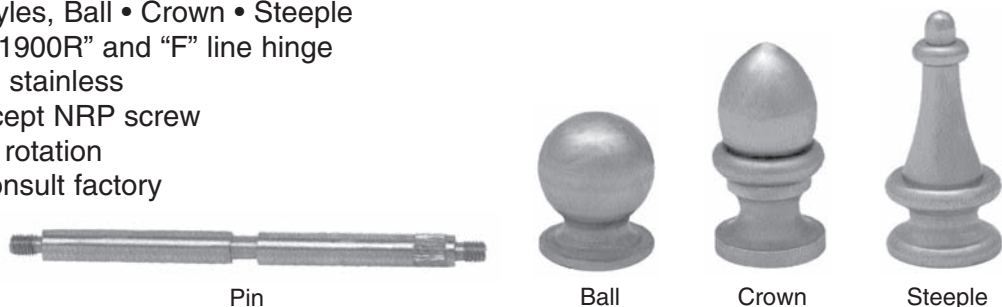
Size Open		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity		Case Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Per Box	Per Case	Steel (Kg)	Brass (Kg)
3 1/2 x 3	(89 x 76)	.123	(3.1)	6 - 10-24 x 1/2	6 -10 x 1	2 EA.	100 EA.	60 (27)	64 (29)
3 1/2 x 3 1/2	(89 x 89)	.123	(3.1)	6 - 10-24 x 1/2	6 -10 x 1	2 EA.	100 EA.	66 (30)	72 (33)
4 x 3 1/2	(102 x 89)	.130	(3.3)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	38 (17)	44 (20)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	43 (20)	46 (21)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	51 (23)	54 (25)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	55 (25)	60 (27)
*5 x 4	(127 x 102)	.146	(3.7)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	30 EA.	40 (18)	43 (20)
*5 x 4 1/2	(127 x 114)	.146	(3.7)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	30 EA.	43 (20)	46 (21)
*5 x 5	(127 x 127)	.146	(3.7)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	30 EA.	46 (21)	51 (23)

* Not Available in Stainless Steel

Conversion Tips and Pins

- Converts standard flush tip “CB1900R” and “1900R”
- Available in three styles, Ball • Crown • Steeple
- Same tips fit “CB”, “1900R” and “F” line hinge
- Conversion pins are stainless
- Conversion pins accept NRP screw
- Knurl eliminates pin rotation
- For heavy weight consult factory

Standard weight Tips and Pins



Security Solutions

Stanley Security Solutions, Inc.

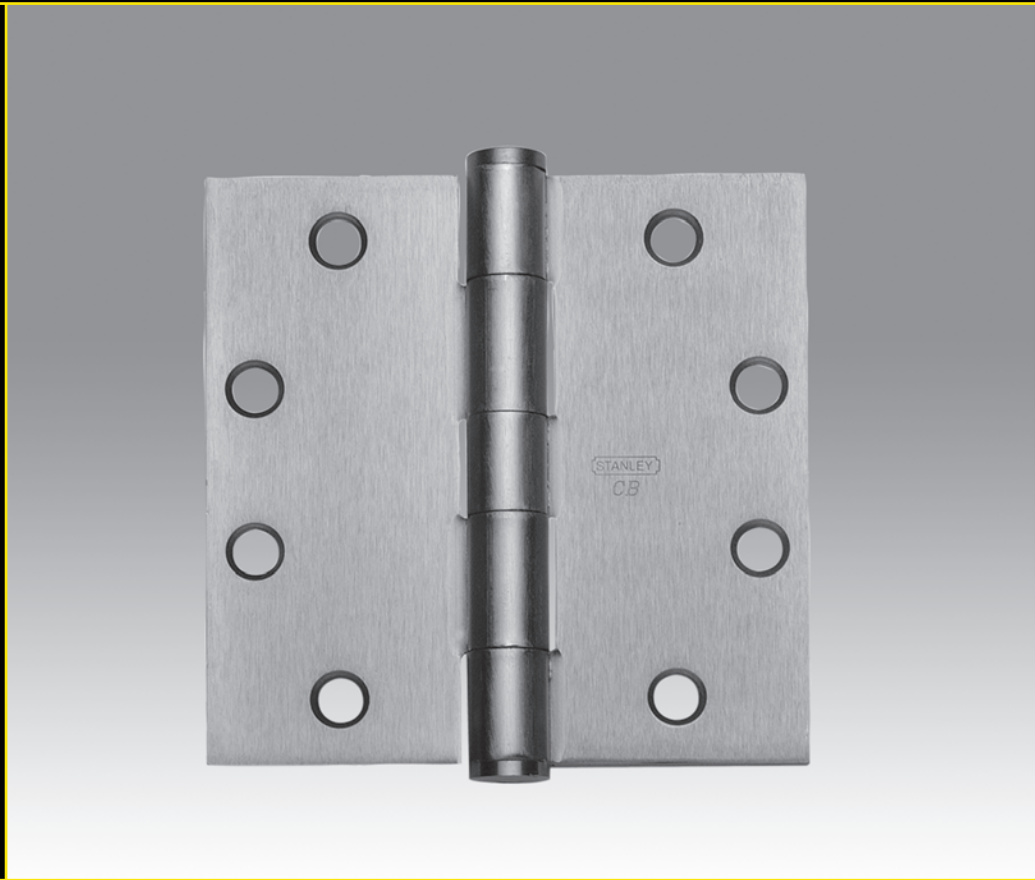
6161 E. 75th Street Indianapolis, Indiana 46250

www.stanleysecuritysolutions.com

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STANLEY[®]
Security Solutions



5 KNUCKLE

CONCEALED BEARING HINGES

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 160 years.

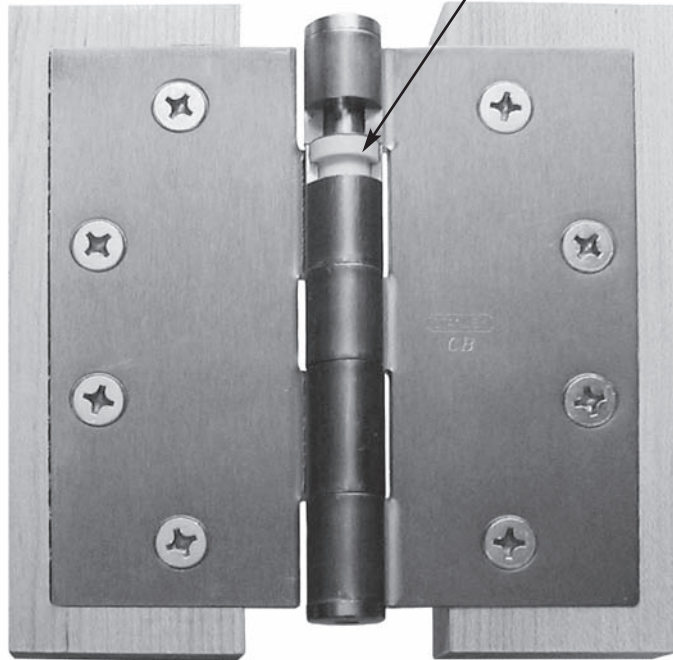
To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com



5 KNUCKLE CONCEALED BEARING HINGES

LifeSpan[®] Patented Two Piece Bearing System



CB5K

- LifeSpan[®] bearing system is a revolutionary concept in bearing construction and materials developed by The Stanley Works. It eliminates metal to metal contact between knuckles by creating its own bearing surface between the washer and sleeve. As the stainless steel washer extends into the sleeve it eliminates metal to metal contact between the pin and barrel, resulting in a smooth, quiet operation superior to that of a ball bearing assembly.
- Innovative design.
- Vertical and Lateral wear performance exceeds ANSI/BHMA Grade 1 standard.
- LifeSpan[®] limited lifetime warranty for the life of the building.
- Approved for use on all types of fire doors up to 4' x 10' (1219mm x 3048mm); 8' x 10' (2438mm x 3048mm) pairs, to maintain the integrity of fire rated openings and walls.
Refer to NFPA80.
- Bearing is maintenance free – no oil, no grease
- CB barrel matches the appearance of “F” line plain bearing hinges for uniform appearance throughout the building.
- Equipped with easily seated non-rising pins.

5 KNUCKLE FULL MORTISE HINGES

Standard Weight Concealed Bearing LifeSpan®

CB179 – (ANSI A8112) Steel – polished and plated or phosphated and prime coated for painting

CB191 – (ANSI A2112) Brass or bronze – polished and plated or painted

CB191 (32) – (ANSI A5112) Stainless steel – highly polished

CB191 (32D) – (ANSI A5112) Stainless steel – satin finish

- For medium weight doors of average frequency
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- LifeSpan® limited lifetime warranty
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze		Steel	
							Lbs.	(Kg)	Lbs.	(Kg)	
3 1/2 x 3	(89 x 76)	.123	(3.1)	6 - 10-24 x 1/2	6 -10 x 1	3 EA.	90 EA.	58	(26)	54	(24)
3 1/2 x 3 1/2	(89 x 89)	.123	(3.1)	6 - 10-24 x 1/2	6 -10 x 1	3 EA.	90 EA.	65	(29)	59	(27)
4 x 3 1/2	(102 x 89)	.130	(3.3)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	43	(19)	39	(18)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	45	(20)	42	(19)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	55	(25)	52	(24)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	48 EA.	59	(27)	55	(25)
5 x 4	(127 x 102)	.146	(3.7)	8 - 12-24 x 1/2	4 -12 x 1 1/4	3 EA.	30 EA.	41	(19)	39	(18)
5 x 4 1/2	(127 x 114)	.146	(3.7)	8 - 12-24 x 1/2	4 -12 x 1 1/4	3 EA.	30 EA.	45	(20)	43	(19)
5 x 5	(127 x 127)	.146	(3.7)	8 - 12-24 x 1/2	4 -12 x 1 1/4	3 EA.	30 EA.	50	(23)	46	(21)
*6 x 4 1/2	(152 x 114)	.160	(4.1)	10 -1/4-20 x 1/2	5 -14 x 1 1/2	3 EA.	24 EA.	43	(19)	36	(16)
*6 x 5	(152 x 127)	.160	(4.1)	10 -1/4-20 x 1/2	5 -14 x 1 1/2	3 EA.	24 EA.	47	(21)	40	(18)
*6 x 6	(152 x 152)	.160	(4.1)	10 -1/4-20 x 1/2	5 -14 x 1 1/2	3 EA.	24 EA.	67	(30)	61	(28)

*Available in Steel only

Consult factory for other sizes not listed

Heavy Weight Concealed Bearing LifeSpan®

CB168 – (ANSI A8111) Steel – polished and plated or phosphated and prime coated for painting

CB199 – (ANSI A2111) Brass or bronze – polished and plated or painted

CB199 (32) – (ANSI A5111) Stainless steel – highly polished

CB199 (32D) – (ANSI A5111) Stainless steel – satin finish

- For use on heavy weight doors or doors where high frequency is expected such as entrance doors to office buildings, stores, public buildings and corridor entrance doors to offices.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- LifeSpan® limited lifetime warranty
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze Lbs.	(Kg)	Steel Lbs.	(Kg)
4 1/2 x 4 1/2	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	49	(22)	42	(19)
5 x 4 1/2	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/2	3 EA.	24 EA.	46	(21)	40	(18)
5 x 5	(127 x 127)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/2	3 EA.	24 EA.	49	(22)	46	(21)
6 x 4 1/2	(152 x 114)	.203	(5.2)	8 - 12-24 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	60	(27)	53	(24)
6 x 5	(152 x 127)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	62	(28)	55	(25)
6 x 6	(152 x 152)	.203	(5.2)	10 - 1/4-20 x 1/2	10 - 14 x 1 1/2	3 EA.	24 EA.	72	(28)	61	(28)
8 x 6*	(203 x 152)	.203	(5.2)	16 - 1/4-20 x 1/2	16 - 14 x 1 1/2	3 EA.	12 EA.			51	(23)
8 x 8*	(203 x 203)	.203	(5.2)	16 - 1/4-20 x 1/2	16 - 14 x 1 1/2	3 EA.	12 EA.			61	(28)

*Available in Steel only

Consult factory for other sizes not listed

5 KNUCKLE HALF SURFACE HINGES

Standard Weight Concealed Bearing *LifeSpan*[®]

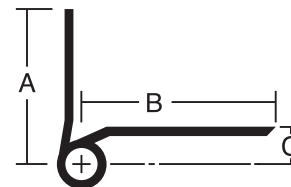
CB173 (ANSI A8412) Steel – polished and plated or phosphated and prime coated for painting

CB112 (ANSI A2412) Brass or bronze – polished and painted or plated

CB112 (32) (ANSI A5412) Stainless steel – highly polished

CB112 (32D) (ANSI A5412) Stainless steel – satin finish

- For medium weight wood, kalamein, or mineral core doors with edge rails that won't hold screws, hung on hollow metal frames, of average frequency
- Concealed LifeSpan[®] bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan[®] limited lifetime warranty
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 (102)	1 13/16 (46)	2 1/4 (57.2)	1/2 (12.7)	.130 (3.3)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	48 EA.	56 (26)	47 (22)
4 1/2 (114)	2 1/16 (52.4)	2 9/16 (65.1)	9/16 (14.3)	.134 (3.4)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	44 (20)	37 (17)
5 (127)	2 1/16 (52.4)	2 7/8 (73)	9/16 (14.3)	.146 (3.7)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	48 (22)	39 (18)

Heavy Weight Concealed Bearing **LifeSpan®**

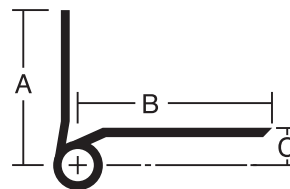
CB163 (ANSI A8411) Steel – polished and plated or phosphated and prime coated for painting

CB113 (ANSI A2411) Brass or bronze – polished and plated or painted

CB113 (32) (ANSI A5411) Stainless steel – highly polished

CB113 (32D) (ANSI A5411) Stainless steel – satin finish

- For heavy or high frequency wood, or mineral core doors with edge rails that won't hold screws hung on hollow metal frames
- Heavy weight gauge increases available bearing surface
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan® limited lifetime warranty
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal		Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight				
	Inches	(mm)	Inches (A)	(mm)	Inches (B)	(mm)	Inches (C)	(mm)			Frame Leaf	Door Leaf	Bronze Lbs. (Kg)	Steel Lbs. (Kg)	
4 1/2	(114)	2 1/8	(54)	2 9/16	(65)	5/8	(15.9)	.180	(4.6)	4-12-24 X 1/2	3 -1/4-20 X 2	3 EA.	30 EA.	59 (27)	47 (21)
5	(127)	2 1/8	(54)	2 7/8	(73)	5/8	(15.9)	.190	(4.8)	4-12-24 X 1/2	4 -1/4-20 X 2	3 EA.	24 EA.	58 (26)	48 (22)
6	(152)	2 1/8	(54)	3 1/4	(82.6)	5/8	(15.9)	.203	(5.2)	5-1/4-20 X 1/2	5 -1/4-20 X 2	3 EA.	24 EA.	90 (41)	82 (37)

5 KNUCKLE HALF MORTISE HINGES

Standard Weight Concealed Bearing **LifeSpan**[®]

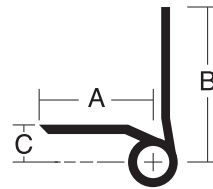
CB167 (ANSI A8212) Steel – polished and plated or phosphated and prime coated for painting

CB108 (ANSI A2212) Brass or Bronze – polished and plated or painted

CB108 (32) (ANSI A5212) Stainless steel – highly polished

CB108 (32D) (ANSI A5212) Stainless steel – satin finish

- For medium weight hollow metal or wood doors of average frequency, hung on channel iron frames
- Concealed LifeSpan[®] bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- LifeSpan[®] limited lifetime warranty



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.134 (3.4)	3-12-24 X 1/2	4-12-24 X 1/2	3 EA.	30 EA.	30 (14)	29 (13)
5 (127)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.146 (3.7)	4-12-24 X 1/2	4-12-24 X 1/2	3 EA.	24 EA.	37 (17)	33 (15)

Heavy Weight Concealed Bearing **LifeSpan**®

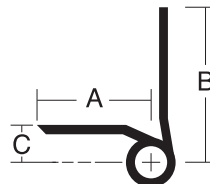
CB138 (ANSI A8211) Steel – polished and plated or phosphated and prime coated for painting

CB98 (ANSI A2211) Brass or bronze – polished and plated or painted

CB98 (32) (ANSI A5211) Stainless steel – highly polished

CB98 (32D) (ANSI A5211) Stainless steel – satin finish

- For heavy or high frequency hollow metal or wood doors hung on channel iron frames
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- LifeSpan® limited lifetime warranty



Measurements below

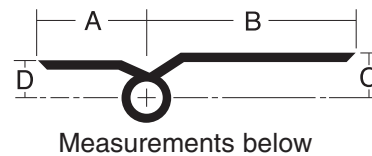
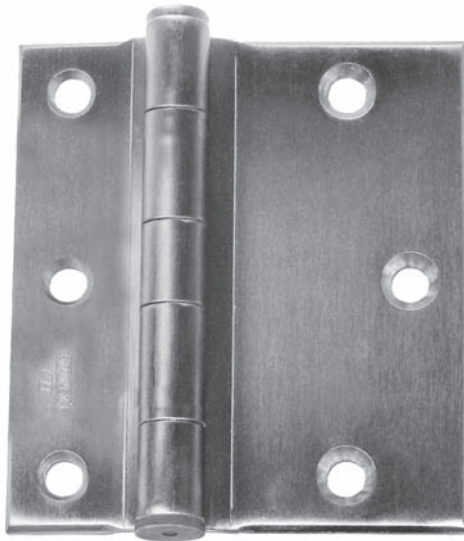
Size Length of Joint	Width				Offset (C)	Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight				
	Frame Leaf (A)		Door Leaf (B)				Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)			
	Inches	(mm)	Inches	(mm)									Inches	(mm)	
4 1/2	(114)	1 1/2	(38.1)	2 1/8	(54)	1/2	(12.7)	.180	(4.6)	3-12-24 X 1/2	4-12-24 X 1/2	3 EA.	30 EA.	36 (17)	36 (17)
5	(127)	1 1/2	(38.1)	2 1/8	(54)	1/2	(12.7)	.190	(4.8)	4-12-24 X 1/2	4-12-24 X 1/2	3 EA.	24 EA.	36 (17)	36 (17)
6	(152)	1 1/2	(38.1)	2 1/8	(54)	1/2	(12.7)	.203	(5.2)	4-1/4-20 X 1/2	5-1/4-20 X 2	3 EA.	24 EA.	48 (22)	48 (22)

5 KNUCKLE FULL SURFACE HINGES

Standard Weight Concealed Bearing **LifeSpan**®

- CB171** (ANSI A8312) Steel – polished and plated or phosphated and prime coated for painting
- CB110** (ANSI A2312) Brass or bronze – polished and plated or painted
- CB110 (32)** (ANSI A5312) Stainless steel – highly polished
- CB110 (32D)** (ANSI A5312) Stainless steel – satin finish

- For medium weight kalamein, mineral core, or wood doors with edge rails that won't hold screws of average frequency hung on channel iron frames
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan® limited lifetime warranty
- Packed with machine screws and grommet nuts for 1 3/4" doors

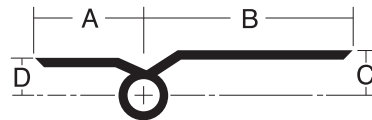
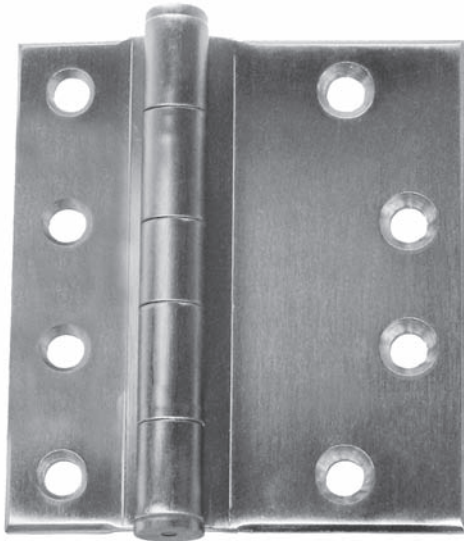


Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)	Door Leaf (C)	Frame Leaf (D)		Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 9/16 (65)	9/16 (14.3)	7/16 (11.1)	.134 (3.4)	3-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	40 (18)	38 (17)
5 (127)	1 1/2 (38.1)	2 7/8 (73)	9/16 (14.3)	7/16 (11.1)	.146 (3.7)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	43 (20)	39 (18)

Heavy Weight Concealed Bearing **LifeSpan**®

- CB169** (ANSI A8311) Steel – polished and plated or phosphated and prime coated for painting
- CB109** (ANSI A2311) Brass or bronze – polished and plated or painted
- CB109 (32)** (ANSI A5311) Stainless steel – highly polished
- CB109 (32D)** (ANSI A5311) Stainless steel – satin finish

- For heavy or high frequency mineral core or wood doors with edge rails that won't hold screws, hung on channel iron frames
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- LifeSpan® limited lifetime warranty
- Available with an inline hole pattern for tubular doors
- Packed with machine screws and grommet nuts for 1 3/4" doors



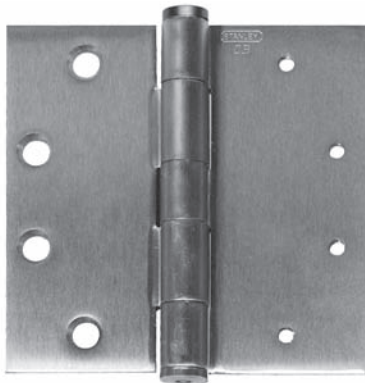
Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)	Door Leaf (C)	Frame Leaf (D)		Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 9/16 (65)	5/8 (15.9)	1/2 (12.7)	.180 (4.6)	3-12-24 X 1/2	3-1/4 -20 X 2	3 EA.	30 EA.	56 (26)	44 (20)
5 (127)	1 1/2 (38.1)	2 7/8 (73)	5/8 (15.9)	1/2 (12.7)	.190 (4.8)	4-12-24 X 1/2	4-1/4 -20 X 2	3 EA.	24 EA.	57 (26)	51 (23)
6 (152)	1 1/2 (38.1)	3 1/4 (82.6)	5/8 (15.9)	1/2 (12.7)	.203 (5.2)	4-1/4-20 X 1/2	5-1/4 -20 X 2	3 EA.	24 EA.	80 (36)	74 (34)

5 KNUCKLE SLIP-IN HINGES

Standard Weight Concealed Bearing – Application “A” *LifeSpan*[®]

- CB179** – (ANSI A8152) Slip-in application “A”, steel – polished and plated or painted
- CB191** – (ANSI A2152) Slip-in application “A”, brass or bronze – polished and plated or painted
- CB191 (32)** – (ANSI A5152) Slip-in application “A”, stainless steel – highly polished
- CB191 (32D)** – (ANSI A5152) Slip-in application “A”, stainless steel – satin finish



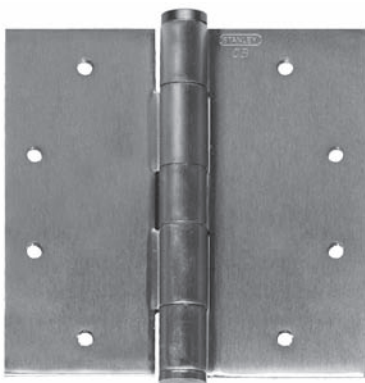
- For aluminum doors with aluminum frames
- “Slip-in” application where one leaf of hinge is inserted through a slot in door or frame, and the other leaf mortised
- Application A – specify “swaged to provide $\frac{3}{16}$ ” (4.8mm) clearance between leaves when parallel and one leaf with standard punching and countersinking and other leaf drilled and tapped.” Specify hand desired.
- Round corners – use prefix “RD” and specify radius desired.
 $\frac{1}{4}$ ” (6.4mm) radius available on all sizes
- Other types and sizes available on request
- Pins in non-ferrous hinges are stainless steel

Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel Lbs.	(Kg)	Bronze Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	44	(20)	45	(21)
4 $\frac{1}{2}$ x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	52	(24)	55	(25)
4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	(114 x 114)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	55	(25)	59	(27)

For application A when used on wood doors, specify wood screws for door leaf

Standard Weight Concealed Bearing – Application “B” *LifeSpan*[®]

- CB179** – (ANSI A8142) Slip-in application “B”, steel – polished and plated or painted
- CB191** – (ANSI A2142) Slip-in application “B”, brass or bronze – polished and plated or painted
- CB191 (32)** – (ANSI A5142) Slip-in application “B”, stainless steel – highly polished
- CB191 (32D)** – (ANSI A5142) Slip-in application “B”, stainless steel – satin finish



- For aluminum doors with aluminum frames
- “Slip-in” application where both leaves of hinge are inserted through slots in door and frame
- Application B – specify “both leaves swaged to provide $\frac{5}{16}$ ” (7.9mm) clearance between leaves when parallel and both leaves drilled and tapped”
- Round corners – use prefix “RD” and specify radius desired.
 $\frac{1}{4}$ ” (6.4mm) radius available on all sizes
- Other types and sizes available on request
- Pins in nonferrous hinges are stainless steel
- Not handed

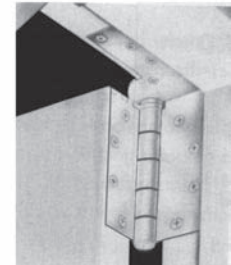
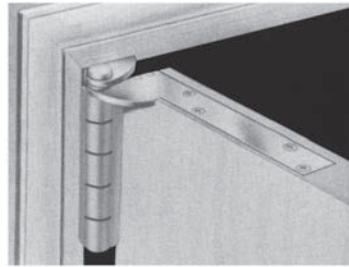
Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel Lbs.	(Kg)	Bronze Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	44	(20)	45	(21)
4 $\frac{1}{2}$ x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	52	(24)	55	(25)
4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	(114 x 114)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	55	(25)	59	(27)

Heavy Weight Concealed Bearing **LifeSpan®**

Shock Proof!

- CB211 – (ANSI A8541)
 - CB212 – (ANSI A8541)
 - CB213 – (ANSI A8541)
- } Steel – polished and plated or phosphated and prime coated for painting
- CB221 – (ANSI A2541)
 - CB222 – (ANSI A2541)
 - CB223 – (ANSI A2541)
- } Bronze – polished and plated or painted
- CB221 (32D) – (ANSI A5541)
 - CB222 (32D) – (ANSI A5541)
 - CB223 (32D) – (ANSI A5541)
- } Stainless steel – satin finish

- Ideal for any door that is subject to jarring or abusive handling
- The purpose of this two-in-one combination is to anchor and reinforce doors and frames exposed to damage from abuse. In such installations, stresses are transferred to the top hinge
- A pivot and butt hinge are combined in one compact interlocked unit and share the same pin to assure perfect alignment. Interlocked corners prevent sidewise motion of pivot or butt leaves
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Beveled edge doors require a different door plate than square edge doors
- Short door plate [4" (102mm) min.] available for use with most concealed holders and closers – specify on order
- Handed left or right
- LifeSpan® limited lifetime warranty



Right Hand Shown

Class Number	Door Edge	Metal	Top Hinge	Contents of Set		
				Intermediate and Bottom Hinge		
				Number**	Inches	Size (mm)
CB211	Square or beveled 1/8" in 2" (3.2 in 51mm)	Steel	1-Type of CB168 NRP X Frame plate ONLY	2-CB168-NRP	5 X 4 1/2	(127 X 114)
CB212	Square	Steel	1-Type of CB168 NRP X Frame and door plate	2-CB168-NRP	5 X 4 1/2	(127 X 114)
CB213	Beveled 1/8" IN 2" (3.2 in 51 mm)	Steel	1-Type of CB168 NRP X Frame and door plate	2-CB168-NRP	5 X 4 1/2	(127 X 114)
CB221	Square or beveled 1/8" in 2" (3.2 in 51mm)	Bronze or Stainless Steel	1-Type of CB199 NRP X Frame plate ONLY	2-CB199-NRP	5 X 4 1/2	(127 X 114)
CB222	Square	Bronze or Stainless Steel	1-Type of CB199 NRP X Frame and door plate	2-CB199-NRP	5 X 4 1/2	(127 X 114)
CB223	Beveled 1/8" in 2" (3.2 in 51mm)	Bronze Stainless Steel	1-Type of CB199 NRP X Frame and door plate	2-CB199-NRP	5 X 4 1/2	(127 X 114)

Class Number	Gauge of Metal		Frame Plate			Door Plate			Flat Head Screws/Set		Sets Per Case	Case Weight Lbs. (Kg)
	Inches	(mm)	Length Inches (mm)	Width Inches (mm)	Length Inches (mm)	Width Inches (mm)	Length Inches (mm)	Width Inches (mm)	Wood	Machine		
CB211	.190	(4.8)	5 (127)	1.25 (31.8)	...	...	...	...	28-12- X 1 1/2	28-12-24 X 1/2	1	6 (3)
CB212	.190	(4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	32-12- X 1 1/2	32-12-24 X 1/2	1	7 (3)
CB213	.190	(4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	32-12- X 1 1/2	32-12-24 X 1/2	1	7 (3)
CB221	.190	(4.8)	5 (127)	1.25 (31.8)	...	...	...	...	12-12- X 1 1/2	28-12-24 X 1/2	1	6 (3)
CB222	.190	(4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1/2	1	7 (3)
CB222 (32D)	.190	(4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1/2	1	7 (3)
CB223	.190	(4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1/2	1	7 (3)
CB223 (32D)	.190	(4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1/2	1	7 (3)

Hinges supplied with set screw in barrel, non-removable pin

For doors over 7' 6" in height, specify additional hinges to order: specify catalog number, finish and hand

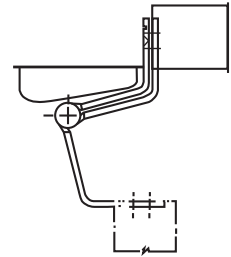
5 KNUCKLE SWING CLEAR HINGES

Standard Weight Plain Bearing “Swing Clear” Full Mortise



F248 – (ANSI A8123) Steel – polished and plated or phosphated and prime coated for painting

- Equipped with easily seated non-rising pins
- Reversible flush tips and pins
- Ideal for remodeling or new construction
- Available for full mortise application on square edge doors only
- Designed to replace existing 3 1/2" (89mm) or 4" (102mm) hinges for Swing Clear openings (some preparation modification typically required for residential use)
- Designed to swing doors completely clear of the opening when door is opened 95°



Class Number	Size Length of Joint		Gauge of Metal		Flat Head Wood Screws/ Per Piece	Quantity Per Box	Quantity Per Case	Case Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
F248	3 1/2	(89)	.123	(3.1)	6-10 X 1	2 EA.	20 EA.	16	(7)
	4	(102)	.130	(3.3)	8-12 X 1 1/4	2 EA.	20 EA.	24	(11)

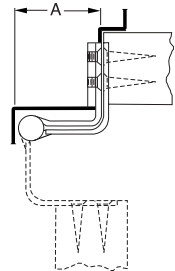
Standard Weight Concealed Bearing “Swing Clear” Full Mortise



CB248 – (ANSI A8122) } Steel –
CB258 – (ANSI A8122) } polished and plated or
 phosphated and prime
 coated for painting

STSCB248 – (ANSI A5122) } Stainless Steel –
STSCB258 – (ANSI A5122) } highly polished or
 satin finish


- Reversible flush tips and pins
- Ideal for remodeling or new construction
- Specify CB248 and STSCB248 for full mortise application on square edge doors
- Specify CB258 and STSCB258 for full mortise application on bevel edge doors
- Designed to swing doors completely clear of the opening when door is opened 90°
- Concealed LifeSpan® bearing is maintenance-free – no oil, no grease
- Hinges can be furnished with hospital tips (HT)
- LifeSpan® limited lifetime warranty



CB248 (Shown) and STSCB248
 {For square edge doors}

CB258 and STSCB258
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}

Class Number	Size Length of Joint		Minimum Clearance Required Dimensions "A"		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	inches	(mm)	inches	(mm)	inches	(mm)	Frame Leaf-Machine	Door Leaf-Wood			Lbs.	(Kg)
CB248, STSCB248	4 1/2	(114)	2 1/8	(54)	.134	(3.4)	4-12-24 X 1/2	4-12 X 1 1/4	3 EA.	24 EA.	36	(17)
CB258, STSCB258	4 1/2	(114)	2 1/8	(54)	.134	(3.4)	4-12-24 X 1/2	4-12 X 1 1/4	3 EA.	24 EA.	36	(17)

Heavy Weight Concealed Bearings "Swing Clear" LifeSpan® 

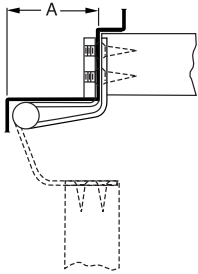
CB268 – (ANSI A8121)
CB278† – (ANSI A8121)
CB269 – (ANSI A8421)
CB264 – (ANSI A8221)
CB274† – (ANSI A8221)
CB266 – (ANSI A8321)

Steel –
 polished and plated or
 phosphated and prime
 coated for painting

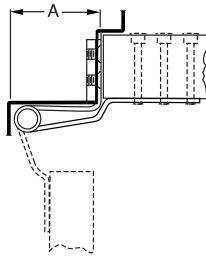
STSCB268 – (ANSI A5121)
STSCB278† – (ANSI A5121)
STSCB269 – (ANSI A5421)
STSCB264 – (ANSI A5221)
STSCB274† – (ANSI A5221)
STSCB266 – (ANSI A5321)

Stainless Steel –
 highly polished
 or satin finish

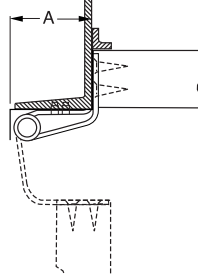
- For corridor doors to patient's rooms, operating rooms, emergency rooms or wherever conditions require a completely clear opening
- Designed to swing door in hospitals, institutions or public buildings completely clear of the opening when door is opened 95°
- Consult factory for hinges available to clear 90°
- Concealed LifeSpan® bearing is maintenance free – no oil, no grease
- Pins in nonferrous hinges are stainless steel
- Hinges can be furnished with hospital tips (HT)
- Full surface and half surface hinges packed with flat head machine screws and grommet nuts for door leaf, specify door thickness if other than 1 3/4"
- Consider using a back plate with full surface and half surface hinges
- For half mortise and full surface hinges to fit narrow metal frames, consult factory
- LifeSpan® limited lifetime warranty
- Reversible flush tips and pins



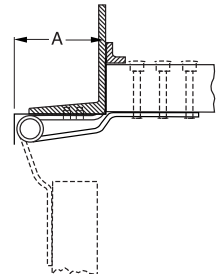
Full Mortise
CB268 and STSCB268
 {For square edge doors} (shown)



Half Surface
CB269 and STSCB269



Half Mortise
 For channel iron frames
CB264 and STSCB264
 {For square edge doors} (shown)



Full Surface
 For channel iron frames
CB266 and STSCB266

CB278† and STSCB278†
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}

CB274† and STSCB274†
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}

Class Number	Size Length of Joint		Minimum Clearance Required Dimensions "A"		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	inches	(mm)	inches	(mm)	inches	(mm)	Frame Leaf-Machine	Door Leaf-Wood			Lbs.	(Kg)
CB268, STSCB268	4 1/2	(114)	2 1/8	(54)	.180	(4.6)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	31	(14)
CB268, STSCB268	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB278†, STSCB278†	4 1/2	(114)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	31	(14)
CB278†, STSCB278†	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB269, STSCB269	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	5-1/4-20 X 1 1/4 M.S.*	....	3 EA.	9	(4)
CB264, STSCB264	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB274†, STSCB274	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
CB266, STSCB266	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	5-1/4-20 X 1 1/4 M.S.*	3 EA.	15 EA.	35	(16)

* Furnished with through-bolts and grommet nuts.

† For doors beveled 1/8" IN 2" (3.2MM IN 51 MM) on hinge side.

For frame and door leaf dimensions refer to template furnished on request. If door closers, friction or overhead door holders are to be used in conjunction with these hinges, consult manufacturer of the device to be used for application details

5 KNUCKLE HINGES

Full Mortise Standard Weight Plain Bearing

F179 – (ANSI A8133 except for 3" x 3"), Steel – polished and plated or phosphated and prime coated for painting

F191 – (ANSI A2133) Brass or bronze – polished and plated or painted

F191 (32) – (ANSI A5133) Stainless steel – polished

F191 (32D) – (ANSI A5133) Stainless steel – satin finish

- For use on internal or external doors without door closers in hospitals, churches, schools, airports, hotels, malls, apartment houses, office buildings, etc.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Use anti-friction bearing hinges on high and average frequency doors and all doors equipped with door closers
- Hinges can be furnished with hospital tips (HT)



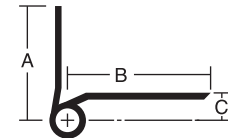
Size Open*		Gauge of Metal		Flat Head Screws/Per Piece		Quantity		Case Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Per Box	Per Case	Steel	Brass
								Lbs.	(Kg)
3 x 3*	(76 x 76)	.080	(2)	6 - 10-24 x 1/2	6 - 9 x 3/4	2 EA.	100 EA.	32	(15)
3 1/2 x 3	(89 x 76)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	2 EA.	100 EA.	60	(27)
3 1/2 x 3 1/2	(89 x 89)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	2 EA.	100 EA.	66	(30)
4 x 3 1/2	(102 x 89)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	38	(17)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	43	(20)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	51	(23)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	55	(25)
5 x 4*	(127 x 102)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	40	(18)
5 x 4 1/2*	(127 x 114)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	43	(20)
5 x 5*	(127 x 127)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	46	(21)

* Steel only – for other substrates consult factory

Half Surface Standard Weight Plain Bearing

F173 – (ANSI A8433) Steel – plated finishes or phosphated and prime coated for painting

- For low frequency kalamein or wood doors
- Use ball bearing hinges on all doors equipped with door closers
- Easily applied as only jamb leaf is mortised
- Packed with machine screws and grommet nuts



Measurements below

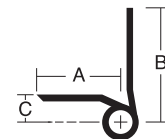


Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			
Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)					Lbs. (Kg)
4 1/2 (114)	2 1/16 (52.4)	2 9/16 (65.1)	9/16 (14.3)	.134 (3.4)	4-12-24 X 1/2	3-1 1/4-20 X 2	3 EA.	30 EA.	37 (17)

Half Mortise Standard Weight Plain Bearing

F167 – (ANSI A8233) Steel – polished and plated finishes or phosphated and prime coated for painting

- For low frequency hollow metal, or wood doors with channel iron frames
- Use ball bearing hinges on all doors equipped with door closers
- Easily applied as only door leaf is mortised



Measurements below



Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			
Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)					Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.134 (3.4)	4-12-24 X 1/2	3-12-24 X 1/2	3 EA.	30 EA.	28 (13)

Conversion Tips and Pins

- Converts standard hinges to decorative tips
- Available in three styles, Ball, Crown and Steeple
- Same tips fit "CB", "1900R" and "F" line hinge
- Conversion pins are stainless
- Conversion pins accept NRP screw
- Knurl eliminates pin rotation
- For heavy weight consult factory

Standard weight tips & pins



Pin



Ball



Crown



Steeple

STANLEY[®]
Security Solutions



5 KNUCKLE
BALL BEARING HINGES

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

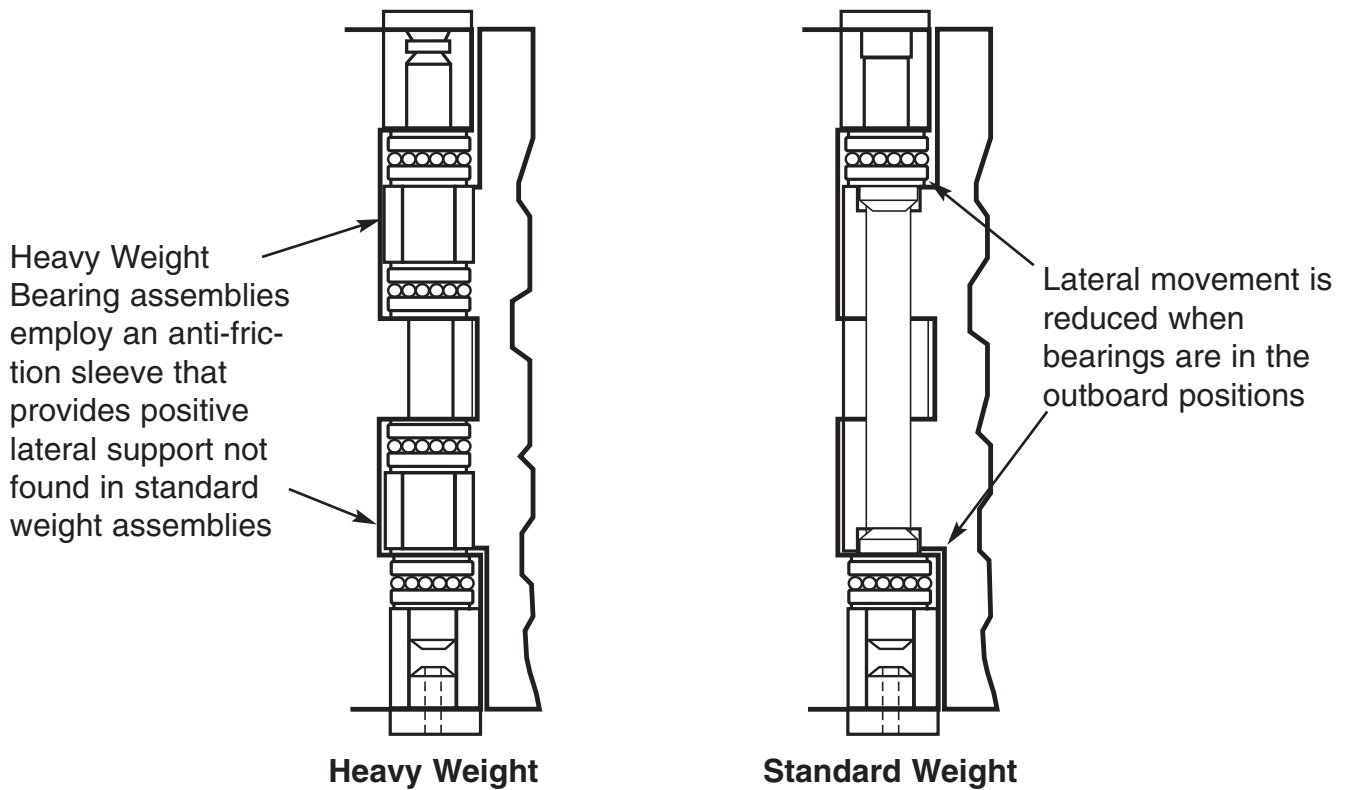
With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 160 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com

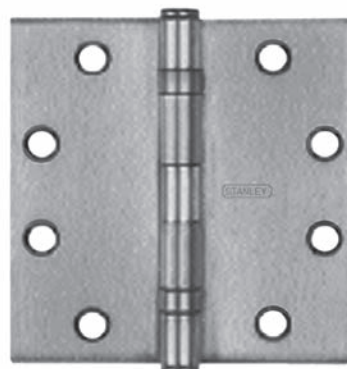
5 KNUCKLE BALL BEARING HINGES



- The vertical load of the door is supported by through-hardened chrome alloy, vertical thrust ball bearing assemblies.
- The lateral load of the door is supported by the pin bearing on the inside of the hinge knuckles.
- Large cold headed, drawn stock of the pins and long bearing area within the knuckles distributes lateral wear over a greater area, resulting in increased life of the hinge.
- Approved for use on all types of fire doors up to 4' x 10' (1219mm x 3048mm), 8' x 10' (2438mm x 3048mm) pairs, to maintain the integrity of fire rated openings and walls. **Refer to NFPA80.**



Heavy Weight



Standard Weight

5 KNUCKLE FULL MORTISE HINGES

Standard Weight Ball Bearing

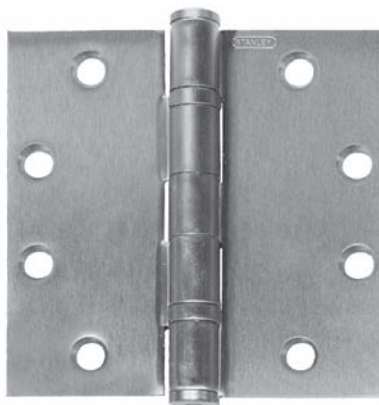
FBB179 – (ANSI A8112) Steel – polished and plated or phosphated and prime coated for painting

FBB191 – (ANSI A2112) Brass or bronze – polished and plated or painted

FBB191 (32) – (ANSI A5112) Stainless steel – highly polished

FBB191 (32D) – (ANSI A5112) Stainless steel – satin finish

- For medium weight doors of average frequency
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with two Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze	Steel		
							Lbs.	(Kg)	Lbs.	(Kg)	
3 1/2 x 3	(89 x 76)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	3 EA.	90 EA.	58	(26)	54	(24)
3 1/2 x 3 1/2	(89 x 89)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	3 EA.	90 EA.	65	(29)	59	(27)
4 x 3 1/2	(102 x 89)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	43	(19)	39	(18)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	45	(20)	42	(19)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	55	(25)	52	(24)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	59	(27)	55	(25)
5 x 4	(127 x 102)	.146	(3.7)	8 - 12-24 x 1/2	4 - 12 x 1 1/4	3 EA.	30 EA.	41	(19)	39	(18)
5 x 4 1/2	(127 x 114)	.146	(3.7)	8 - 12-24 x 1/2	4 - 12 x 1 1/4	3 EA.	30 EA.	45	(20)	43	(19)
5 x 5	(127 x 127)	.146	(3.7)	8 - 12-24 x 1/2	4 - 12 x 1 1/4	3 EA.	30 EA.	50	(23)	46	(21)
*6 x 4 1/2	(152 x 114)	.160	(4.1)	10 - 1/4-20 x 1/2	5 - 14 x 1 1/2	3 EA.	24 EA.	43	(19)	36	(16)
*6 x 5	(152 x 127)	.160	(4.1)	10 - 1/4-20 x 1/2	5 - 14 x 1 1/2	3 EA.	24 EA.	47	(21)	40	(18)
*6 x 6	(152 x 152)	.160	(4.1)	10 - 1/4-20 x 1/2	5 - 14 x 1 1/2	3 EA.	24 EA.	67	(30)	61	(28)

* Available in Steel only

Consult factory for other sizes not listed

Heavy Weight Ball Bearing

FBB168 – (ANSI A8111) Steel – polished and plated or phosphated and prime coated for painting

FBB199 – (ANSI A2111) Brass or bronze – polished and plated or painted

FBB199 (32) – (ANSI A5111) Stainless steel – highly polished

FBB199 (32D) – (ANSI A5111) Stainless steel – satin finish

- For use on heavy doors or doors where high frequency is expected such as entrance doors to office buildings, stores, public buildings and corridor entrance doors to offices
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Hole in bottom tip for easy pin removal
- Reversible flush tips and pins
- Hinges can be furnished as follows:
 - with raised barrel (RB)
 - with electric wires and/or switches (CE and/or CS)
 - with hospital tips (HT)
 - with decorative tips
 - with security studs
 - with non-removable pins (NRP)



Size Open		Gauge of Metal		Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)	Machine	Wood			Bronze Lbs.	(Kg)	Steel Lbs.	(Kg)
4 1/2 x 4 1/2	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 -12 x 1 1/4	3 EA.	30 EA.	45	(21)	42	(19)
5 x 4 1/2	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 -12 x 1 1/2	3 EA.	24 EA.	46	(21)	40	(18)
5 x 5	(127 x 127)	.190	(4.8)	8 - 12-24 x 1/2	8 -12 x 1 1/2	3 EA.	24 EA.	50	(23)	46	(21)
6 x 4 1/2	(152 x 114)	.203	(5.2)	10 - 1/4-20 x 1/2	10 -14 x 1 1/2	3 EA.	24 EA.	63	(29)	53	(24)
6 x 5	(152 x 127)	.203	(5.2)	10 - 1/4-20 x 1/2	10 -14 x 1 1/2	3 EA.	24 EA.	65	(30)	55	(25)
6 x 6	(152 x 152)	.203	(5.2)	10 - 1/4-20 x 1/2	10 -14 x 1 1/2	3 EA.	24 EA.	76	(35)	61	(28)
8 x 6*	(203 x 152)	.203	(5.2)	16 - 1/4-20 x 1/2	16 -14 x 1 1/2	3 EA.	12 EA.	57	(26)	51	(23)
8 x 8*	(203 x 203)	.203	(5.2)	16 - 1/4-20 x 1/2	16 -14 x 1 1/2	3 EA.	12 EA.	68	(31)	61	(28)

*Available in Steel only

Consult factory for other sizes not listed

5 KNUCKLE HALF SURFACE HINGES

Standard Weight Ball Bearing

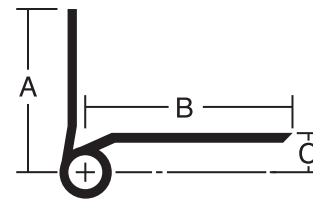
FBB173 (ANSI A8412) – Steel – polished and plated or phosphated and prime coated for painting

FBB112 (ANSI A2412) – Brass or bronze – highly polished and painted or plated

FBB112 (32) (ANSI A5412) – Stainless steel – highly polished

FBB112 (32D) (ANSI A5412) – Stainless steel – satin finish

- For medium weight wood, kalamein, or mineral core doors with edge rails that won't hold screws, hung on hollow metal frames, of average frequency
- Equipped with two Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 (102)	1 13/16 (46)	2 1/4 (57.2)	1/2 (12.7)	.130 (3.3)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	48 EA.	56 (26)	47 (22)
4 1/2 (114)	2 1/16 (52.4)	2 9/16 (65.1)	9/16 (14.3)	.134 (3.4)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	44 (20)	37 (17)
5 (127)	2 1/16 (52.4)	2 7/8 (73)	9/16 (14.3)	.146 (3.7)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	48 (22)	39 (18)

Heavy Weight Ball Bearing

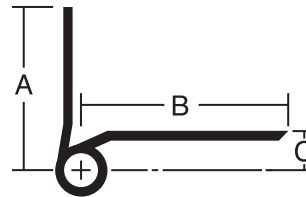
FBB163 (ANSI A8411) – Steel – polished and plated or phosphated and prime coated for painting

FBB113 (ANSI A2411) – Brass or bronze – polished and plated or painted

FBB113 (32) (ANSI A5411) – Stainless steel – highly polished

FBB113 (32D) (ANSI A5411) – Stainless steel – satin finish

- For heavy or high frequency wood, or mineral core doors with edge rails that won't hold screws hung on hollow metal frames
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight							
	Inches	(mm)	Inches (A)	(mm)		Inches (B)	(mm)			Inches (C)	(mm)	Frame Leaf	Door Leaf	Bronze Lbs. (Kg)	Steel Lbs. (Kg)		
4 1/2	(114)	2 1/8	(54)	2 9/16	(65)	5/8	(15.9)	.180	(4.6)	4-12-24 X 1/2	3 -1/4-20 X 2	3 EA.	30 EA.	59	(27)	47	(21)
5	(127)	2 1/8	(54)	2 7/8	(73)	5/8	(15.9)	.190	(4.8)	4-12-24 X 1/2	4 -1/4-20 X 2	3 EA.	24 EA.	58	(26)	48	(22)
6	(152)	2 1/8	(54)	3 1/4	(82.6)	5/8	(15.9)	.203	(5.2)	5-1/4-20 X 1/2	4 -1/4-20 X 2	3 EA.	24 EA.	90	(41)	82	(37)

5 KNUCKLE HALF MORTISE HINGES

Standard Weight Ball Bearing

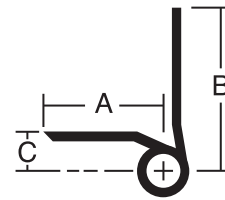
FBB167 (ANSI A8212) – Steel – polished and plated or phosphated and prime coated for painting

FBB108 (ANSI A2212) – Brass or bronze – polished and plated or painted

FBB108 (32) (ANSI A5212) – Stainless steel – highly polished

FBB108 (32D) (ANSI A5212) – Stainless steel – satin finish

- For medium weight hollow metal or wood doors of average frequency, hung on channel iron frames
- Equipped with two Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)



Measurements below

Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.134 (3.4)	3-12-24 X 1/2	3-12-24 X 1/2	3 EA.	30 EA.	30 (14)	29 (13)
5 (127)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.146 (3.7)	4-12-24 X 1/2	4-12-24 X 1/2	3 EA.	24 EA.	37 (17)	33 (15)

Heavy Weight Ball Bearing

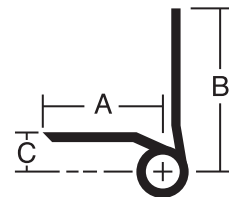
FBB138 (ANSI A8211) – Steel – polished and plated or phosphated and prime coated for painting

FBB98 (ANSI A2211) – Brass or bronze – polished and plated or painted

FBB98 (32) (ANSI A5211) – Stainless steel – highly polished

FBB98 (32D) (ANSI A5211) – Stainless steel – satin finish

- For heavy or high frequency hollow metal or wood doors hung on channel iron frames
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)



Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight					
	Inches	(mm)	Inches (A)	(mm)		Inches (B)	(mm)			Inches (C)	(mm)	Frame Leaf	Door Leaf	Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2	(114)	1 1/2	(38.1)	2 1/8	(54)	1/2	(12.7)	.180	(4.6)	3-12-24 X 1/2	4-12-24 X 1/2	3 EA.	30 EA.	36 (17)	36 (17)
5	(127)	1 1/2	(38.1)	2 1/8	(54)	1/2	(12.7)	.190	(4.8)	4-12-24 X 1/2	4-12-24 X 1/2	3 EA.	24 EA.	36 (17)	36 (17)
6	(152)	1 1/2	(38.1)	2 1/8	(54)	1/2	(12.7)	.203	(5.2)	4-1/4-20 X 1/2	5-1/4-20 X 1/2	3 EA.	24 EA.	48 (22)	48 (22)

5 KNUCKLE FULL SURFACE HINGES

Standard Weight Ball Bearing

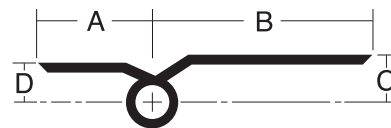
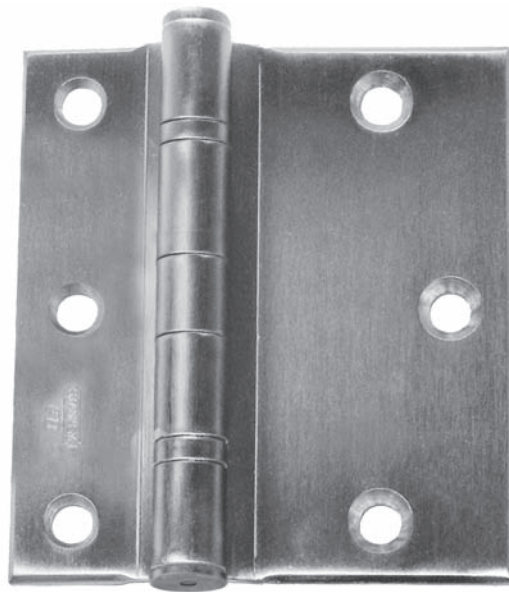
FBB171 (ANSI A8312) – Steel – polished and plated or phosphated and prime coated for painting

FBB110 (ANSI A2312) – Brass or bronze – polished and plated or painted

FBB110 (32) (ANSI A5312) – Stainless steel – highly polished

FBB110 (32D) (ANSI A5312) – Stainless steel – satin finish

- For medium weight kalamein mineral core or wood doors of average frequency hung on channel iron frames
- Equipped with two Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)	Door Leaf (C)	Frame Leaf (D)		Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 9/16 (65)	9/16 (14.3)	7/16 (11.1)	.134 (3.4)	3-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	40 (18)	38 (17)
5 (127)	1 1/2 (38.1)	2 7/16 (73)	9/16 (14.3)	7/16 (11.1)	.146 (3.7)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	43 (20)	39 (18)

Heavy Weight Ball Bearing

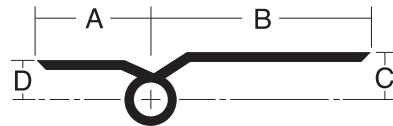
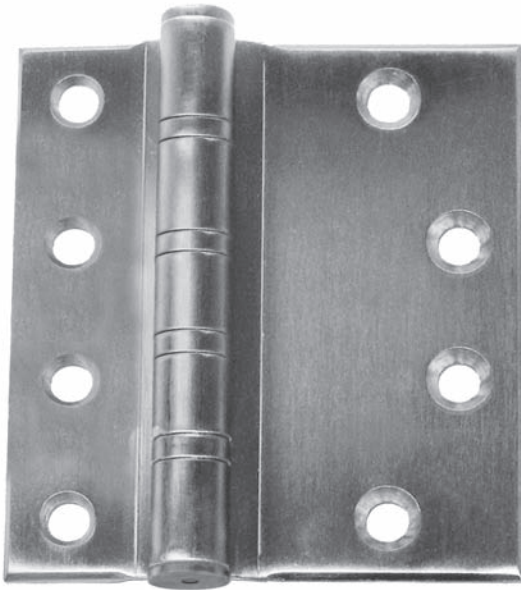
FBB169 (ANSI A8311) – Steel – polished and plated or phosphated and prime coated for painting

FBB109 (ANSI A2311) – Brass or bronze – polished and plated or painted

FBB109 (32) (ANSI A5311) – Stainless steel – highly polished

FBB109 (32D) (ANSI A5311) – Stainless steel – satin finish

- For heavy or high frequency mineral core or wood doors with edge rails that won't hold screws, hung on channel iron frames
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in non-ferrous hinges are stainless steel
- Reversible flush tips and pins
- Hinges can be furnished with hospital tips (HT)
- Consider using a back plate with these hinges
- Available with an inline hole pattern for tubular doors
- Packed with machine screws and grommet nuts for 1 3/4" doors



Measurements below

Size Length of Joint	Width		Offset		Gauge of Metal	Flat Head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	Frame Leaf (A)	Door Leaf (B)	Door Leaf (C)	Frame Leaf (D)		Frame Leaf	Door Leaf			Bronze Lbs. (Kg)	Steel Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 9/16 (65)	5/8 (15.9)	1/2 (12.7)	.180 (4.6)	3-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	56 (26)	44 (20)
5 (127)	1 1/2 (38.1)	2 7/8 (73)	5/8 (15.9)	1/2 (12.7)	.190 (4.8)	4-12-24 X 1/2	4-1/4-20 X 2	3 EA.	24 EA.	57 (26)	51 (23)
6 (152)	1 1/2 (38.1)	3 1/4 (82.6)	5/8 (15.9)	1/2 (12.7)	.203 (5.2)	4-1/4-20 X 1/2	5-1/4-20 X 2	3 EA.	24 EA.	80 (36)	74 (34)

5 KNUCKLE SLIP-IN HINGES

Standard Weight Ball Bearing – Application “A”

- FBB179** – (ANSI A8152) Slip-in application “A”, steel – polished and plated or painted
- FBB191** – (ANSI A2152) Slip-in application “A”, brass or bronze – polished and plated or painted
- FBB191 (32)** – (ANSI A5152) Slip-in application “A”, stainless steel – highly polished
- FBB191 (32D)** – (ANSI A5152) Slip-in application “A”, stainless steel – satin finish



- For aluminum doors with aluminum frames
- “Slip-in” application where one leaf of hinge is inserted through a slot in door or frame, and the other leaf mortised
- Application A – specify “swaged to provide $\frac{3}{16}$ ” (4.8mm) clearance between leaves when parallel and one leaf with standard punching and countersinking and other leaf drilled and tapped.” Specify hand desired.
- Round corners – use prefix “RD” and specify radius desired.
 $\frac{1}{4}$ ” (6.4mm) radius available on all sizes
- Other types and sizes available on request
- Pins in nonferrous hinges are stainless steel

Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece*	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel Lbs.	(Kg)	Bronze Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	44	(20)	45	(21)
4 $\frac{1}{2}$ x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	52	(24)	55	(25)
4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	(114 x 114)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	55	(25)	59	(27)

* For application A when used on wood doors, specify wood screws for door leaf

Standard Weight Ball Bearing – Application “B”

- FBB179** – (ANSI A8142) Slip-in application “B”, Steel – polished and plated or painted
- FBB191** – (ANSI A2142) Slip-in application “B”, Brass or bronze – polished and plated or painted
- FBB191 (32)** – (ANSI A5142) Slip-in application “B”, Stainless steel – highly polished
- FBB191 (32D)** – (ANSI A5142) Slip-in application “B”, Stainless steel – satin finish



- For aluminum doors with aluminum frames
- “Slip-in” application where both leaves of hinge are inserted through slots in door and frame
- Application B – specify “both leaves swaged to provide $\frac{5}{16}$ ” (7.9mm) clearance between leaves when parallel and both leaves drilled and tapped”
- Round corners – use prefix “RD” and specify radius desired.
 $\frac{1}{4}$ ” (6.4mm) radius available on all sizes
- Other types and sizes available on request
- Pins in nonferrous hinges are stainless steel
- Not handed

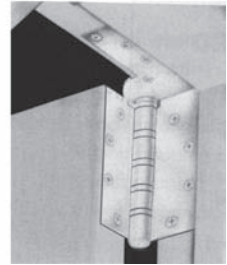
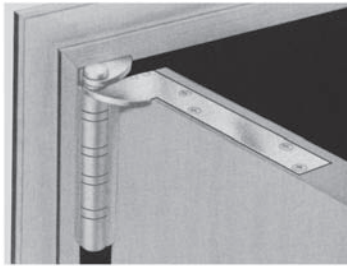
Size Open		Gauge of Metal		Flat Head Machine Screws/Per Piece	Quantity Per Box	Quantity Per Case	Case Weight			
Inches	(mm)	Inches	(mm)				Steel Lbs.	(Kg)	Bronze Lbs.	(Kg)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	44	(20)	45	(21)
4 $\frac{1}{2}$ x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	52	(24)	55	(25)
4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	(114 x 114)	.134	(3.4)	8 - 12-24 x $\frac{1}{2}$	3 EA.	48 EA.	55	(25)	59	(27)

Heavy Weight Ball Bearing

Shock Proof!

- FBB211 – (ANSI A8541)
 - FBB212 – (ANSI A8541)
 - FBB213 – (ANSI A8541)
- } Steel – polished and plated or phosphated and prime coated for painting
- FBB221 – (ANSI A2541)
 - FBB222 – (ANSI A2541)
 - FBB223 – (ANSI A2541)
- } Bronze – polished and finished
- FBB221 (32D) – (ANSI A5541)
 - FBB222 (32D) – (ANSI A5541)
 - FBB223 (32D) – (ANSI A5541)
- } Stainless steel – satin finish

- Ideal for any door that is subject to jarring or abusive handling
- The purpose of this two-in-one combination is to anchor and reinforce doors and frames exposed to damage from abuse. In such installations, stresses are transferred to the top hinge
- A pivot and butt hinge are combined in one compact interlocked unit and share the same pin to assure perfect alignment. Interlocked corners prevent sidewise motion of pivot or butt leaves
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Beveled edge doors require a different door plate than square edge doors
- Short door plate [4" (102mm) min.] available for use with most concealed holders and closers – specify on order
- Handed left or right



Right Hand Shown

Class Number	Door Edge	Metal	Contents of Set			
			Top Hinge*	Intermediate and Bottom Hinge*		
				Number	Inches	Size (mm)
FBB211	Square or beveled 1/8" in 2" (3.2 in 51mm)	Steel	1–Type of FBB168 NRP X Frame plate ONLY	2-FBB168-NRP	5 X 4 1/2	(127 X 114)
FBB212	Square	Steel	1–Type of FBB168 NRP X Frame and door plate	2-FBB168-NRP	5 X 4 1/2	(127 X 114)
FBB213	Beveled 1/8" IN 2" (3.2 in 51 mm)	Steel	1–Type of FBB168 NRP X Frame and door plate	2-FBB168-NRP	5 X 4 1/2	(127 X 114)
FBB221	square or beveled 1/8" in 2" (3.2 in 51mm)	Bronze or Stainless Steel	1–Type of FBB199 NRP X Frame plate ONLY	2-FBB199-NRP	5 X 4 1/2	(127 X 114)
FBB222	Square	Bronze or Stainless Steel	1–Type of FBB199 NRP X Frame and door plate	2-FBB199-NRP	5 X 4 1/2	(127 X 114)
FBB223	Beveled 1/8" in 2" (3.2 in 51mm)	Bronze or Stainless Steel	1–Type of FBB199 NRP X Frame and door plate	2-FBB199-NRP	5 X 4 1/2	(127 X 114)

Class Number	Gauge of Metal	Frame Plate			Door Plate			Flat Head Screws/Set		Sets Per Case	Case Weight Lbs. (Kg)
		Length		Width	Length		Width	Wood	Machine		
		Inches	(mm)	Inches	(mm)	Inches	(mm)				
FBB211	.190 (4.8)	5 (127)	1.25 (31.8)	...	...	...	...	28-12- X 1 1/2	28-12-24 X 1 1/2	1	6 (3)
FBB212	.190 (4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	32-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
FBB213	.190 (4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	32-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
FBB221	.190 (4.8)	5 (127)	1.25 (31.8)	...	...	...	...	12-12- X 1 1/2	28-12-24 X 1 1/2	1	6 (3)
FBB222	.190 (4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
FBB222 (32D)	.190 (4.8)	5 (127)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	7.78 (198)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
FBB223	.190 (4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)
FBB223 (32D)	.190 (4.8)	5 (127)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	7.64 (194)	1.25 (31.8)	16-12- X 1 1/2	32-12-24 X 1 1/2	1	7 (3)

Hinges supplied with set screw in barrel, non-removable pin
For doors over 7' 6" in height, specify additional hinges to order: specify catalog number, finish and hand

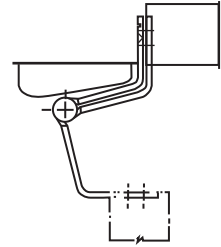
5 KNUCKLE SWING CLEAR HINGES

Standard Weight Plain Bearing “Swing Clear” Full Mortise



F248 – (ANSI A8123) Steel – polished and plated or phosphated and prime coated for painting

- Equipped with easily seated non-rising pins
- Reversible flush tips and pins
- Ideal for remodeling or new construction
- Available for full mortise application on square edge doors only
- Designed to replace existing 3 1/2" (89mm) or 4" (102mm) hinges for Swing Clear openings (some modification of preparation may be required for residential use)
- Designed to swing doors completely clear of the opening when door is opened 95°



Class Number	Size Length of Joint		Gauge of Metal		Flat Head Wood Screws/ Per Piece	Quantity Per Box	Quantity Per Case	Case Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
F248	3 1/2	(89)	.123	(3.1)	6-10 X 1	2 EA.	20 EA.	16	(7)
	4	(102)	.130	(3.3)	8-12 X 1 1/4	2 EA.	20 EA.	24	(11)

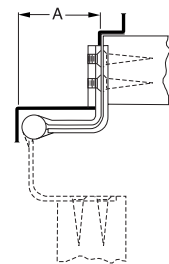
Standard Weight Ball Bearing “Swing Clear” Full Mortise



FBB248 – (ANSI A8122) } Steel –
FBB258 – (ANSI A8122) } polished and plated or phosphated and prime coated for painting

STSFBB248 – (ANSI A5122) } Stainless Steel –
STSFBB258 – (ANSI A5122) } highly polished or satin finish

- Reversible flush tips and pins
- Ideal for remodeling or new construction
- Specify FBB248 and STSFBB248 for full mortise application on square edge doors
- Specify FBB258 and STSFBB258 for full mortise application on bevel edge doors
- Designed to swing doors completely clear of the opening when door is opened 90°
- Equipped with two Stanley permanently lubricated non-detachable ball bearings
- Hinges can be furnished with hospital tips (HT)



FBB248 (Shown) and STSFBB248
{For square edge doors}

FBB258 and STSFBB258
{For doors beveled 1/8" in 2" (3.2 in 51mm)}

Class Number	Size Length of Joint		Minimum Clearance Required Dimensions "A"		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	inches	(mm)	inches	(mm)	inches	(mm)	Frame Leaf-Machine	Door Leaf-Wood			Lbs.	(Kg)
FBB248, STSFBB248	4 1/2	(114)	2 1/8	(54)	.134	(3.4)	4-12-24 X 1/2	4-12 X 1 1/4	3 EA.	24 EA.	36	(17)
FBB258, STSFBB258	4 1/2	(114)	2 1/8	(54)	.134	(3.4)	4-12-24 X 1/2	4-12 X 1 1/4	3 EA.	24 EA.	36	(17)

5 KNUCKLE SWING CLEAR HINGES

Heavy Weight Ball Bearing "Swing Clear"



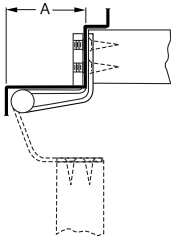
FBB268 – (ANSI A8121)
FBB278† – (ANSI A8121)
FBB269 – (ANSI A8421)
FBB264 – (ANSI A8221)
FBB274† – (ANSI A8221)
FBB266 – (ANSI A8321)

Steel –
 polished and plated or
 phosphated and prime
 coated for painting

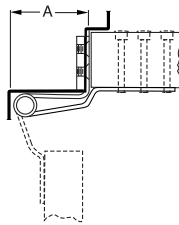
STSFBB268 – (ANSI A5121)
STSFBB278† – (ANSI A5121)
STSFBB269 – (ANSI A5421)
STSFBB264 – (ANSI A5221)
STSFBB274† – (ANSI A5221)
STSFBB266 – (ANSI A5321)

Stainless Steel –
 highly polished
 or satin finish

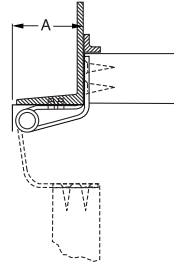
- For corridor doors to patients' rooms, operating rooms, emergency rooms, or wherever conditions require a completely clear opening in hospitals, institutions or public buildings
- Designed to swing door completely clear of the opening when door is opened 95°
- Consult factory for hinges available to clear 90°
- Equipped with four Stanley permanently lubricated non-detachable ball bearings
- Pins in nonferrous hinges are stainless steel
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Hinges can be furnished with hospital tips
- Full surface and half surface hinges packed with flat head machine screws and grommet nuts for door leaf, specify door thickness if other than 1 3/4"
- Consider using a back plate on full surface and half surface hinges
- For half mortise and full surface hinges to fit narrow metal frames, consult factory
- Reversible flush tips and pins



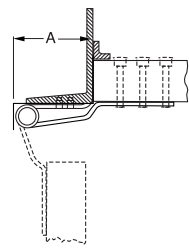
Full Mortise - FBB268 and STSFBB268
 {For square edge doors} (shown)
FBB278† and STSFBB278†
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}



Half Surface
FBB269
 and **STSFBB269**



Half Mortise
 For Channel Iron Frames
FBB264 and STSFBB264
 {For square edge doors} (shown)
FBB274† and STSFBB274†
 {For doors beveled 1/8" in 2" (3.2 in 51mm)}



Full Surface
 For Channel Iron Frames
FBB266 and STSFBB266

Class Number	Size Length of Joint		Minimum Clearance Required Dimensions "A"		Gauge of Metal		Flat Head Screws/ Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
	inches	(mm)	inches	(mm)	inches	(mm)	Frame Leaf-Machine	Door Leaf-Wood			Lbs.	(Kg)
FBB268, STSFBB268	4 1/2	(114)	2 1/8	(54)	.180	(4.6)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	31	(14)
FBB268, STSFBB268	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
FBB278†, STSFBB278†	4 1/2	(114)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	31	(14)
FBB278†, STSFBB278†	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
FBB269, STSFBB269	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	5-1/4-20 X 1 1/4 M.S.*	....	3 EA.	9	(4)
FBB264, STSFBB264	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
FBB274† STSFBB274	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	4-12 X 1 1/4 W.S	3 EA.	15 EA.	35	(16)
FBB266, STSFBB266	5	(127)	2 1/8	(54)	.190	(4.8)	4-12-24 X 1/2	5-1/4-20 X 1 1/4 M.S.*	3 EA.	15 EA.	35	(16)

* Furnished with through-bolts and grommet nuts.

† For doors beveled 1/8" IN 2" (3.2MM IN 51 MM) on hinge side.

For frame and door leaf dimensions refer to template furnished on request. If door closers, friction or overhead door holders are to be used in conjunction with these hinges, consult manufacturer of the device to be used for application details

5 KNUCKLE HINGES

Full Mortise Standard Weight Plain Bearing

F179 – (ANSI A8133 except for 3" x 3") Steel – polished and plated or phosphated and prime coated for painting

F191 – (ANSI A2133) Brass or bronze – polished and plated or painted

F191 (32) – (ANSI A5133) Stainless steel – highly polished

F191 (32D) – (ANSI A5133) Stainless steel – satin finish

- For use on internal or external doors without door closers in hospitals, churches, schools, airports, hotels, malls, apartment houses, office buildings, etc.
- All hinges have template screw hole location for use on either wood or hollow metal doors and frames
- Use anti-friction bearing hinges on high and average frequency doors and all doors equipped with door closers
- Hinges can be furnished with hospital tips (HT)



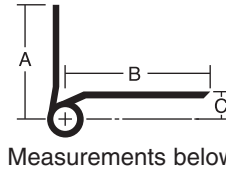
Size Open		Gauge of Metal		Flat Head Screws/Per Piece		Quantity		Case Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Per Box	Per Case	Steel	Brass
								Lbs. (Kg)	Lbs. (Kg)
3 x 3*	(76 x 76)	.080	(2)		6 - 9 x 3/4	2 EA.	100 EA.	32 (15)	
3 1/2 x 3	(89 x 76)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	2 EA.	100 EA.	60 (27)	64 (29)
3 1/2 x 3 1/2	(89 x 89)	.123	(3.1)	6 - 10-24 x 1/2	6 - 10 x 1	2 EA.	100 EA.	66 (30)	72 (33)
4 x 3 1/2	(102 x 89)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	38 (17)	44 (20)
4 x 4	(102 x 102)	.130	(3.3)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	43 (20)	46 (21)
4 1/2 x 4	(114 x 102)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	51 (23)	54 (25)
4 1/2 x 4 1/2	(114 x 114)	.134	(3.4)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	48 EA.	55 (25)	60 (27)
5 x 4	(127 x 102)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	40 (18)	43 (20)
5 x 4 1/2	(127 x 114)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	43 (20)	46 (21)
5 x 5*	(127 x 127)	.146	(3.7)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	30 EA.	46 (21)	51 (23)

*Steel only – for other substrates consult factory

Half Surface Standard Weight Plain Bearing

F173 – (ANSI A8433) Steel – polished and plated or phosphated and prime coated for painting

- For low frequency kalamein or wood doors with hollow metal frames (use ball bearing hinges on all doors equipped with door closers)
- Easily applied as only jamb leaf is mortised
- Packed with machine screws and grommet nuts

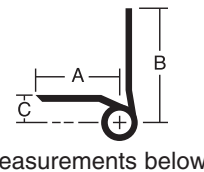


Size Length of Joint	Width		Offset (C)	Gauge of Metal	Flat head Machine Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			
Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)					Lbs. (Kg)
4 1/2 (114)	2 1/16 (52.4)	2 9/16 (65.1)	9/16 (14.3)	.134 (3.4)	4-12-24 X 1/2	3-1/4-20 X 2	3 EA.	30 EA.	37 (17)

Half Mortise Standard Weight Plain Bearing

F167 – (ANSI A8233) Steel – polished and plated or phosphated and prime coated for painting

- For low frequency hollow metal or wood doors with channel iron frames (use ball bearing hinges on all doors equipped with door closers)
- Easily applied as only door leaf is mortised



Size Length of Joint	Width		Offset (C)	Gauge of Metal	Quantity & Size of Screws/Per Piece		Quantity Per Box	Quantity Per Case	Case Weight
	Frame Leaf (A)	Door Leaf (B)			Frame Leaf	Door Leaf			
Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)					Lbs. (Kg)
4 1/2 (114)	1 1/2 (38.1)	2 1/16 (52.4)	7/16 (11.1)	.134 (3.4)	4-12-24 X 1/2	3-12-24 X 1/2	3 EA.	30 EA.	28 (13)

Conversion Tips and Pins

- Converts standard flush tip hinges
- Available in three styles, Ball, Crown and Steeple
- Same tips fit "CB", "1900R" and "F" line hinges
- Conversion pins are stainless
- Conversion pins accept NRP screw
- Knurl eliminates pin rotation
- For heavy weight consult factory

Standard weight Tips and Pins



STANLEY[®]
Security Solutions



SPRING HINGES

UL LISTED

STANLEY[®]

SPRING HINGES



- 2060R** – (ANSI K81071F) Square corners – steel-polished and plated or phosphated and prime coated for painting
- 2060R (32)** – (ANSI K51071F) Square corners – stainless steel – highly polished
- 2060R (32D)** – (ANSI K51071F) Square corners – stainless steel – satin finish

RD2060R – (ANSI K81071F) 1/4" (6mm) Radius corners – steel-polished and plated or phosphated and prime coated for painting

RD2060R (32) – (ANSI K51071F) 1/4" (6mm) Radius corners – stainless steel – highly polished

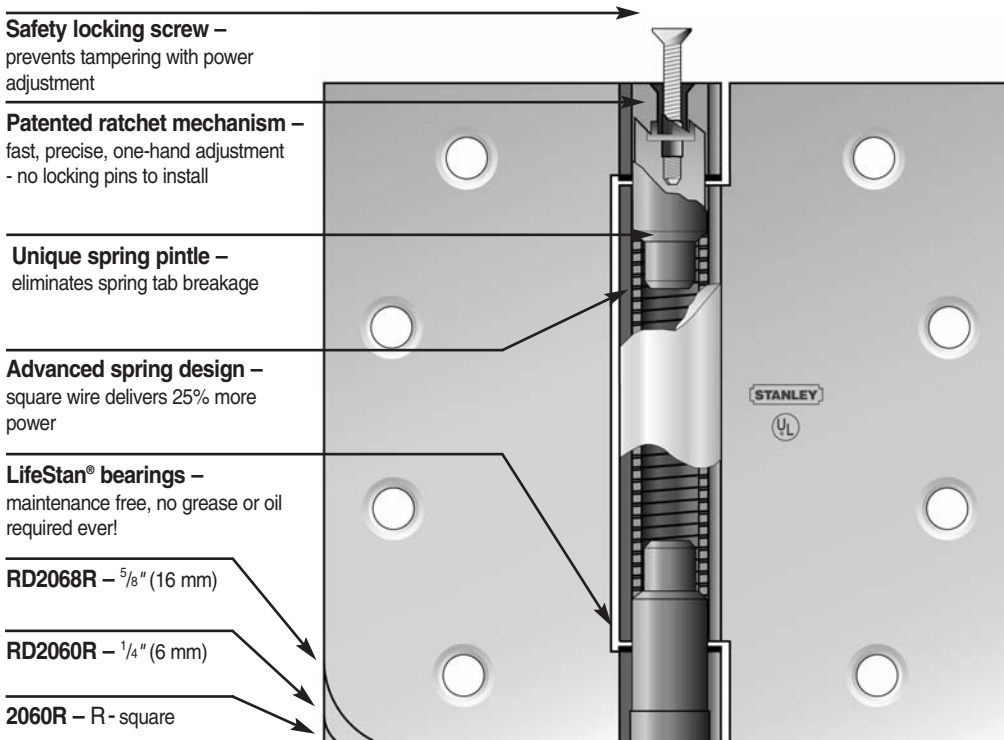
RD2060R (32D) – (ANSI K51071F) 1/4" (6mm) Radius corners – stainless steel – satin finish

RD2068R – (ANSI K81071F) 5/8" (16mm) Radius corners – Steel-polished and plated or phosphated and prime coated for painting

RD2068R (32) – (ANSI K51071F) 5/8" (16mm) Radius corners – stainless steel – highly polished

RD2068R (32D) – (ANSI K51071F) 5/8" (16mm) Radius corners – stainless steel – satin finish

- For labeled fire doors, stairwell doors, motel and hotel guest room doors, apartment unit entrance doors.
- Meets NFPA80 standard for 3 hour fire doors (NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors)
- 4 1/2" (114mm) size – UL listed for door up to 4' x 8' (1219 x 2438mm)
- 4" (102mm) size – approved for door up to 3' x 7' (914 x 2134mm)
- 3 1/2" (89mm) size – approved for door up to 2' 8" x 7' (813 x 2134mm)
- LifeSpan Limited lifetime warranty for the life of the building
- Internal ratchet mechanism eliminates loose adjustment pins
- Closing power is adjustable up or down
- Excellent alternative to more expensive overhead mounted closers
- Hinges can be furnished as follows:
 - with decorative tips
 - with electric switches (CS) – 4 1/2" (114 mm) only
 - Special screw hole pattern



Adjusting Instructions

Fig. 1

To Increase Torque (Fig 1)

- Close door
- Engage 5/32" hex wrench
- Rotate clockwise to increase torque
- Do not exceed 6 ratchet "clicks"

Fig. 2

To Decrease Torque (Fig 2)

- Close door
- Engage 5/32" hex wrench
- Depress wrench to disengage ratchet
- Let wrench rotate counter-clockwise to new setting
- Allow wrench to rise

Fig. 3

Install Locking Safety Screw (Fig 3)

- Install 6-32 5/8" recessed head machine screw packed with hinge

2060R, RD2060R, RD2068R – 4 1/2" 



Application guide lines for 2060R, RD2060R, RD2068R 4 1/2" x 4" and 4 1/2" x 4 1/2"

Size Open (Inches) (MM)	Gauge of Metal (Inches) (MM)	Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
		Machine	Wood			(Lbs.)	(Kg)
4 1/2 x 4 (114x102)	.134 (3.4)	8-12-24 x 1/2	8-12 x 1 1/4	3 EA.	48 EA.	50	(23)
4 1/2 x 4 1/2 (114x114)	.134 (3.4)	8-12-24 x 1/2	8-12 x 1 1/4	3 EA.	48 EA.	53	(24)

Door Size and Weight	Number of Spring Hinges Required
For doors up to 80 lbs. (36Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	1 each No. 2060R, RD2060R or RD2068R with 2 each anti-friction bearing hinges of same size
For doors up to 130 lbs. (59Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	2 each No. 2060R, RD2060R or RD2068R with 1 each anti-friction bearing hinges of same size
For doors up to 180 lbs. (81.6Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	3 each No. 2060R, RD2060R or RD2068R
For doors up to 180 lbs. (81.6Kg) not exceeding 4' 0" x 8' 0" x 1 3/4" (1219 x 2438 x 44mm)	4 each No. 2060R, RD2060R or RD2068R

When drafts or wind conditions exist, or carpets, door bottoms, bowed or twisted doors or frames, pivot point misalignment or improper latch adjustment affect either the free swinging or latching of the door, additional spring hinges may be required.
 * NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.
 ** For fire doors refer to NFPA-80, section 6.4.3.1.

2060R, RD2060R, RD2068R – 4"



Application guide lines for 2060R, RD2060R, RD2068R 4" x 4"

Size Open (Inches) (MM)	Gauge of Metal (Inches) (MM)	Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
		Machine	Wood			(Lbs.)	(Kg)
4 x 4 (102x102)	.099 (2.5)	8-12-24 x 1/2 with #9 head	8-9 x 1	2 EA.	50 EA.	38	(17)

Door Size and Weight	Number of Spring Hinges Required
For doors up to 3' 0" x 7' 0" x 1 3/4" (914 x 2134 x 44mm) not exceeding 50 lbs. (23Kg)	1 each No. 2060R, RD2060R or RD2068R with 2 each similar sized hinges
For doors up to 3' 0" x 7' 0" x 1 3/4" (914 x 2134 x 44mm) not exceeding 85 lbs. (39Kg)	2 each No. 2060R, RD2060R or RD2068R with 1 each similar sized hinge
For doors up to 3' 0" x 7' 0" x 1 3/4" (914 x 2134 x 44mm) not exceeding 110 lbs. (50Kg)	3 each No. 2060R, RD2060R or RD2068R

Similar sized hinges used with spring hinges must present the same pivot point. When used as part of a complete listed assembly similar hinges must be the same as those tested. Otherwise, anti-friction hinges must be used.
 * NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.
 ** For fire doors refer to NFPA-80, section 6.4.3.1.

2060R, RD2060R, RD2068R – 3 1/2"



Application guide lines for 2060R, RD2060R, RD2068R 3 1/2" x 3 1/2"

Size Open (Inches) (MM)	Gauge of Metal (Inches) (MM)	Flat Head Screws Per Piece		Quantity Per Box	Quantity Per Case	Case Weight	
		Machine	Wood			(Lbs.)	(Kg)
3 1/2 x 3 1/2 (89x89)	.099 (2.5)	6-10-24 x 1/2 with #9 head	6-9 x 1	2 EA.	50 EA.	32	(15)

Door Size and Weight	Number of Spring Hinges Required
For doors up to 3' 0" x 7' 0" x 1 3/8" (914 x 2134 x 35mm) not exceeding 50 lbs. (23Kg)	1 each No. 2060R, RD2060R or RD2068R with 2 each similar sized hinges
For doors up to 3' 0" x 7' 0" x 1 3/8" (914 x 2134 x 35mm) not exceeding 85 lbs. (39Kg)	2 each No. 2060R, RD2060R or RD2068R with 1 each similar sized hinge
For doors up to 3' 0" x 7' 0" x 1 3/8" (914 x 2134 x 35mm) not exceeding 110 lbs. (50Kg)	3 each No. 2060R, RD2060R or RD2068R

Similar sized hinges used with spring hinges must present the same pivot point. When used as part of a complete listed assembly similar hinges must be the same as those tested. Otherwise, anti-friction hinges must be used.
 * NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.
 ** For fire doors refer to NFPA-80, section 6.4.3.1.

SPRING HINGES

2079 SPRING HINGES AND FREE SWINGING HINGE SETS

1 set 2079 4 1/2" x 4 1/2" US3 (632) EDP# 82-7162 to consist of:

- 2 each 2060R 4 1/2" x 4 1/2" US3, Steel
- 1 each FBB179 4 1/2" x 4 1/2" US3, Steel

1 set 2079 4 1/2" x 4 1/2" USP (600) EDP# 82-7170 to consist of:

- 2 each 2060R 4 1/2" x 4 1/2" USP, Steel
- 1 each FBB179 4 1/2" x 4 1/2" USP, Steel

1 set 2079 4 1/2" x 4 1/2" US26D (652) EDP# 82-7188 to consist of:

- 2 each 2060R 4 1/2" x 4 1/2" US26D, Steel
- 1 each FBB179 4 1/2" x 4 1/2" US26D, Steel

- For medium weight doors of average frequency
- Installer uses one box of hinges on a door up to 7' 6" (2286mm) in height
- All hinges have template screw hole location to use on either wood or hollow metal doors and frames
- Identical pivot point for all 3 hinges
- Can be used on labeled doors (Refer to NFPA-80)
- 2060R conforms to ANSI K81071F
- FBB179 conforms to ANSI A8112



FBB179



2060R

Application guide lines for 2060R – 4 1/2"

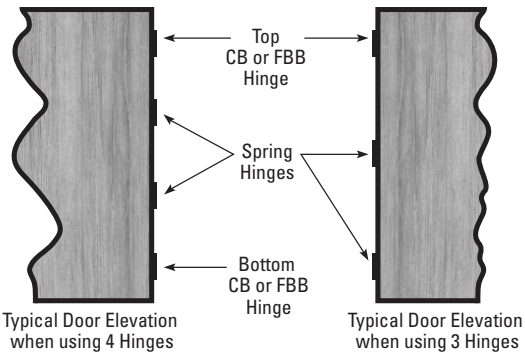
Door Size and Weight	Number of Spring Hinges Required
For doors up to 130lbs. (59 Kg) not exceeding 3' 0" x 7' 6" x 1 3/4" (914 x 2286 x 44mm)	2 each No. 2060R, RD2060R or RD2068R with 1 each anti-friction bearing hinges of same size

When drafts or wind conditions exist, or carpets, door bottoms, bowed or twisted doors or frames, pivot point misalignment or improper latch adjustment affect either the free swinging or latching of the door, additional spring hinges may be required.

* NFPA-80 stipulates minimum of 2 spring hinges shall be used on labeled doors.

** For fire doors refer to NFPA-80, section 6.4.3.1.

Spring Hinge Location, When Using 2 Spring Hinges On a Door



Class Number	Size Open (Inches) (MM)	Gauge of Metal (Inches) (MM)	Flat Head Screws Per Set		Quantity Per Box	Quantity Per Case	Case Weight (Lbs.) (Kg)
			Machine	Wood			
2079	4 1/2 x 4 1/2 (114x114)	.134 (3.4)	24-12-24 x 1/2	24-12 x 1 1/4	1 SET	16 SETS	55 (25)

Product information contained in this catalog has been compiled and presented with as much care and completeness as is reasonably possible. Errors or mistakes may be present, and in many cases, reliance has been placed on information supplied by other manufacturers which may be in error or which may be subject to changes or modifications by the manufacturer without notice and without obligation. Therefore, no guarantee can be made or should be assumed or implied with regards to product information contained in this catalog.



Security Solutions

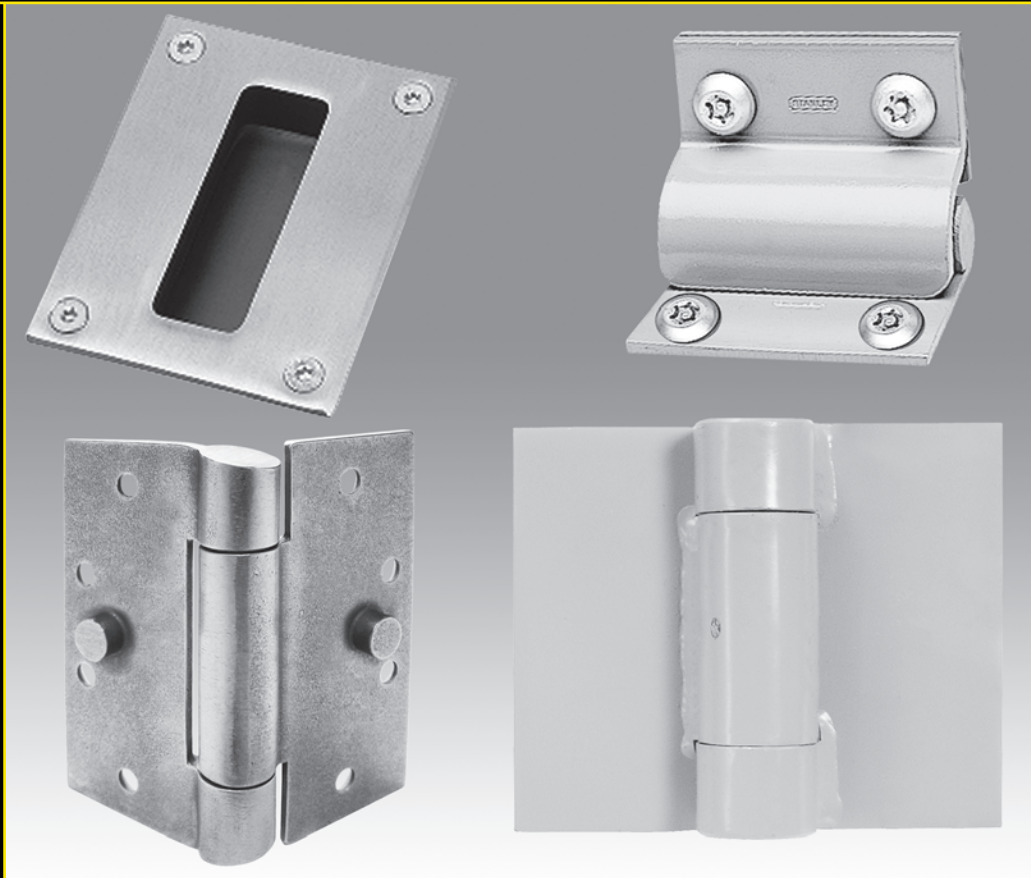
Stanley Security Solutions, Inc.

6161 E. 75th Street Indianapolis, Indiana 46250

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10M 910
SAH010

STANLEY[®]
Security Solutions



DETENTION

HARDWARE

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 165 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com

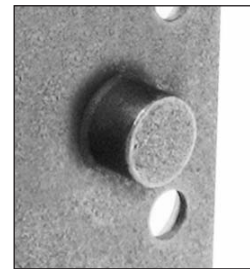


Heavy Weight Concealed Bearing Prison Hinges **LifeSpan®**

IHTCB1995 – (ANSI A5111) – 3 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- Investment cast 304 stainless steel
- Available with or without shear resistant stud (SRS)
- LifeSpan® limited lifetime warranty
- Concealed Lifestan® bearing for trouble free, long life – no oil, no grease, no maintenance
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Stainless steel, hardened, free turning, completely concealed pin

Hinges can be furnished as follows:
 with concealed switch (CS)
 with shear resistant studs (SRS)



Shear Resistant Stud

Size Open		Gauge of Metal		Number of Flat Head Security Machine Screws Per Hinge	Quantity		Carton Weight	
Inches	(mm)	Inches	(mm)		Per Box	Per Carton	Lbs.	(KG)
4 1/2"	114	.188	(4.8)	8 - 1/4-20 x 1/2	3 EA.	30 EA.	46	(20.9)

Suggested Specifications

Institutional type hinges should be fabricated from investment cast stainless steel. All dimensions as to size, thickness, and screw holes shall conform to ANSI-A156.7 "Standard for Template Hinge Dimensions". Both lateral and vertical loads will be accommodated by bearings which include anti-friction, self-lubricating materials. Pins shall be non-removable. The top and bottom ends of the hinge barrel shall be contoured to a uniform slope.

Hinges shall be tested to cycle a 300 lbs. (136 Kg) door a minimum of 2,500,000 times, (0°- 90°- 0°), installed in accordance with ANSI-156.1 type test fixtures. Vertical wear shall not exceed .030" (.76mm) and lateral wear shall not exceed .060" (1.5mm).

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. (271.2-J) of force delivered on the door within 6" (152mm) of each hinge.

DETENTION HARDWARE

Heavy Weight Concealed Bearing Prison Hinges *LifeSpan*[®]

IHTCB1901R – (ANSI A8111) – 3 knuckle – full mortise – steel – phosphated and painted

IHTCB1961R – (ANSI A5111) – 3 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- LifeSpan[®] limited lifetime warranty
- Concealed Lifestan[®] bearing for trouble free, long life – no oil, no grease, no maintenance
- Sloped ends deter hangings
- Stainless steel, hardened, free turning, completely concealed pin
- Heavy weight gauges increase available bearing surface area for maximum friction reduction

Hinges can be furnished as follows:

- with concealed switch (CS)
- with current conducting feature (CE)
- with shear resistant studs (SRS)
- with 1/4-20 punching



Shear Resistant Stud

Size Open		Gauge of Metal		Number of Flat Head Security Screws Per Hinge		Quantity		Carton Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Per Box	Per Carton	Lbs.	(KG)
4 1/2" x 4 1/2"	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	36 EA.	54	(24.5)
5" x 4 1/2"	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 EA.	24 EA.	42	(19)

Suggested Specifications

Institutional type hinges should be fabricated from wrought steel or stainless steel. All dimensions as to size, thickness, and screw holes shall conform to ANSI-A156.7 "Standard for Template Hinge Dimensions". Both lateral and vertical loads will be accommodated by bearings which include anti-friction, self-lubricating materials. Pins shall be non-removable. The top and bottom ends of the hinge barrel shall be contoured to a uniform slope.

Hinges shall be tested to cycle a 300 lbs. (136 Kg) door a minimum of 2,500,000 times, (0°- 90°- 0°), installed in accordance with ANSI-156.1 type test fixtures. Vertical wear shall not exceed .030" (.76mm) and lateral wear shall not exceed .060" (1.5mm).

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. (271.2-J) of force delivered on the door within 6" (152mm) of each hinge.

Heavy Weight Concealed Bearing Prison Hinges **LifeSpan**[®]

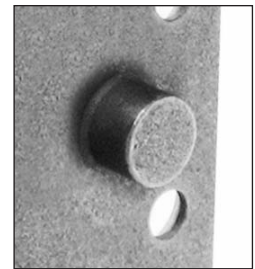
IHTCB168 – (ANSI A8111) – 5 knuckle – full mortise – steel – phosphated and painted, or polished and plated

IHTCB199 – (ANSI A5111) – 5 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- LifeSpan[®] limited lifetime warranty
- Concealed Lifestan[®] bearing for trouble free, long life – no oil, no grease, no maintenance
- Sloped ends deter hangings
- Stainless steel, hardened, and completely concealed pin
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Steel based painted hinges and stainless steel hinges are fully welded
- Steel based plated hinges are cross pinned, top and bottom

Hinges can be furnished as follows:

- with concealed switch (CS)
- with current conducting feature (CE)
- with shear resistant studs (SRS)
- with 1/4-20 punching



Shear Resistant Stud

Size Open		Gauge of Metal		Number of Flat Head Security Screws Per Hinge		Quantity		Carton Weight	
Inches	(mm)	Inches	(mm)	Machine	Wood	Per Box	Per Carton	Lbs.	(KG)
4 1/2" x 4 1/2"	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2"	8 - 12 x 1 1/4"	3 EA.	36 EA.	54	(24.5)
5" x 4 1/2"	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2"	8 - 12 x 1 1/4"	3 EA.	24 EA.	42	(19)

Suggested Specifications

Institutional type hinges should be fabricated from wrought steel or stainless steel. All dimensions as to size, thickness, and screw holes shall conform to ANSI-A156.7 "Standard for Template Hinge Dimensions". Both lateral and vertical loads will be accommodated by bearings which include anti-friction, self-lubricating materials. Pins shall be non-removable. The top and bottom ends of the hinge barrel shall be contoured to a uniform slope.

Hinges shall be tested to cycle a 300 lbs. (136 Kg) door a minimum of 2,500,000 times, (0°-90°-0°), installed in accordance with ANSI-156.1 type test fixtures. Vertical wear shall not exceed .030" (.76mm) and lateral wear shall not exceed .060" (1.5mm).

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. (271.2-J) of force delivered on the door within 6" (152mm) of each hinge.

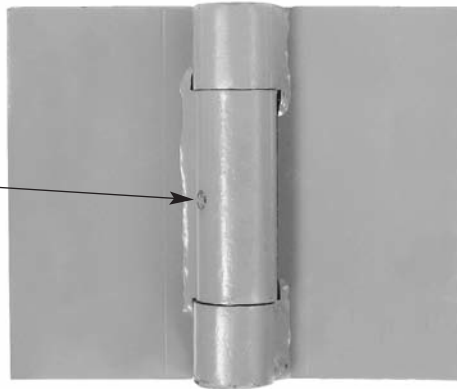
DETENTION HARDWARE

Double Weight Concealed Ball Bearing Prison Hinges

BB855 – (ANSI A8381) – steel with welded pin. Phosphated and prime coated for painting

- For lead-lined doors to x-ray rooms and other exceptionally heavy doors
- Made of double weight steel capable of carrying doors weighing up to 800 lbs. (363 Kg)
(Based on a 3' x 7' door with 3 hinges)
- Each of the 2 concealed hardened steel races contains sixteen 1/8" (3.2mm) hardened and ground steel balls which are assembled within a jacket
- Concealed bearings are well lubricated insuring smooth, long lasting operation
- Rolled knuckles are welded and machined
- Typically made not swaged, no holes (application A) for full surface applications, or for full mortise (applications C) application. All other configurations are made to order

Provision has been made in the barrel of hinge for forced lubrication if further lubrication is necessary



TYPICAL APPLICATIONS OF BB855

<p>Regularly furnished blank no holes, not swaged for Full Surface – application A</p>	<p>Full Surface with holes to template – application B</p>
<p>Full Mortise – applications</p> <p>Application C Not Swaged Application D Swaged Application E Special Swaged</p> <p>For all full mortise applications the center of barrel should be set 7/8" (22.2 mm) from door and frame so welded joints will clear. Leaves can be swaged apart any distance between 1/16" (1.6 mm) to 9/16" (14.3 mm)</p>	<p>Half Mortise</p> <p>Application F Half mortise Application G Half mortise</p> <p>Variations of half mortise or half surface types can be obtained by further bumping or swaging of mortise leaf to accommodate any required construction. Specify hand when ordering</p>

Furnished on order with holes and with machine screws, at additional cost.
When screw holes are required they are accurately punched to template.
If above details do not show your particular construction submit details and specifications.

No holes, not swaged for applications "A" or "C"	Catalog Number	USP/EDP Number	Length of Joint	Width Open	Gauge of Metal	Diameter of Pin	Quantity Per Carton	Carton Weight
	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Lbs. (Kg)	
BB855	02 9468	5 (127)	6 (152)	9/32 (7.1)	1/2 (12.7)	2 Ea.	7 (3.2)	

Triple Weight Concealed Ball Bearing Prison Hinges

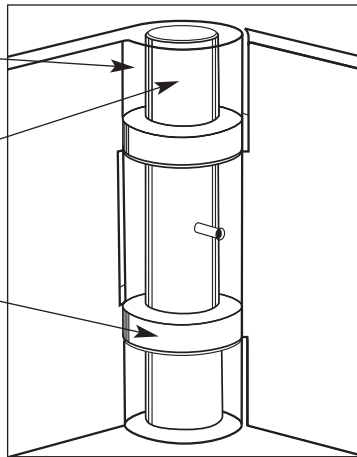
BB852 – (ANSI A8391) – steel with welded pin. Phosphated and prime coated for painting

- For lead-lined doors to x-ray rooms and extremely heavy doors and gates
- For hinged cell-front doors and grated steel doors of penitentiaries, jails, reformatories, etc.
- Made of triple weight steel capable of carrying doors weighing up to 2000 lbs. (906 Kg)
(Based on a 3' x 7' door with 3 hinges)
- Each of the 2 concealed hardened steel races contains sixteen 3/16" (4.8mm) hardened and ground steel balls which are assembled within a jacket
- Provision has been made in the barrel of the hinge for forced lubrication if further lubrication is necessary
- Typically made not swaged, no holes (application A) for full surface applications, or for full mortise (applications C) application. All other configurations are made to order

Rolled knuckles are welded and machined.

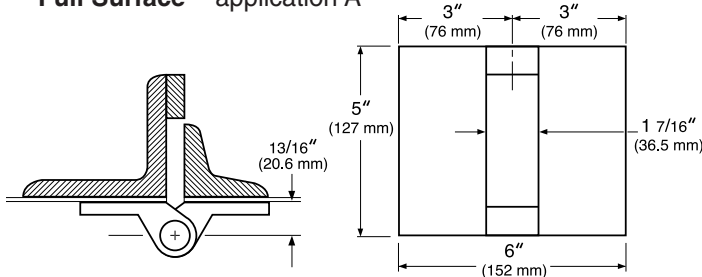
Pin is solid one piece steel welded at both ends making pin removal impossible.

Two concealed bearing assemblies. Hardened race-ways. Hardened and ground balls.

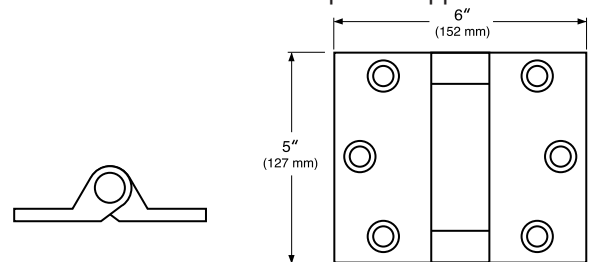


TYPICAL APPLICATIONS OF BB852

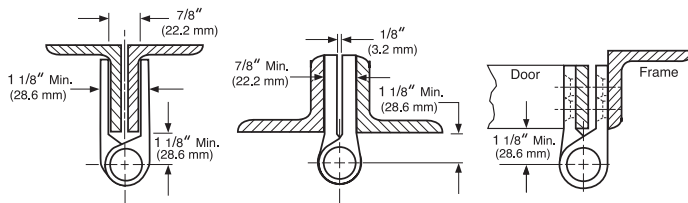
Regularly furnished blank no holes, not swaged for **Full Surface – application A**



Full Surface with holes to template – application B



Full Mortise – applications



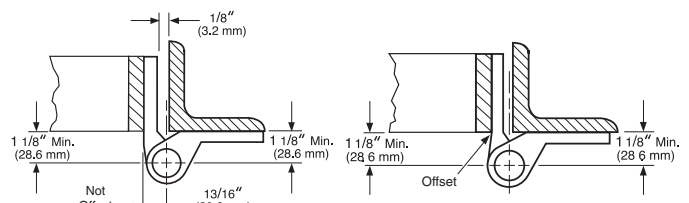
Application C
Not swaged

Application D
Swaged

Application E
Special swaged

For all full mortise applications the center of barrel should be set 1 1/8" (28.6 mm) from door and frame so welded joints will clear. Leaves can be swaged apart any distance between 1/8" (3.2 mm) to 7/8" (22.2 mm)

Half Mortise



Application F
Half mortise

Application G
Half mortise

Variations of half mortise or half surface types can be obtained by further bumping or swaging of mortise leaf to accommodate any required construction. Specify hand when ordering

Furnished on order with holes and with machine screws, at additional cost.
If above details do not show your particular construction submit details and specifications.

No holes, not swaged for applications "A" or "C"	Catalog Number	USP/EDP Number	Length of Joint		Width Open		Gauge of Metal		Diameter of Pin		Quantity Per Carton	Carton Weight	
			Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)		Lbs.	(Kg)
	BB852	02 9388	5	(127)	6	(152)	3/8	(9.5)	3/4	(19.1)	2 Ea.	10	(4.5)

DETENTION HARDWARE

Food Pass Cuff Port Hinges

854 – Hinge with stop – phosphated and prime coated for painting

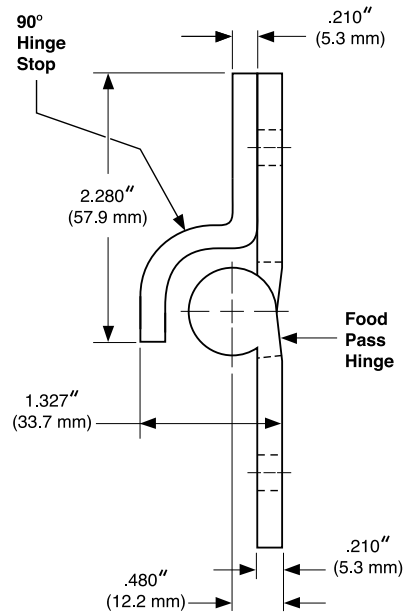
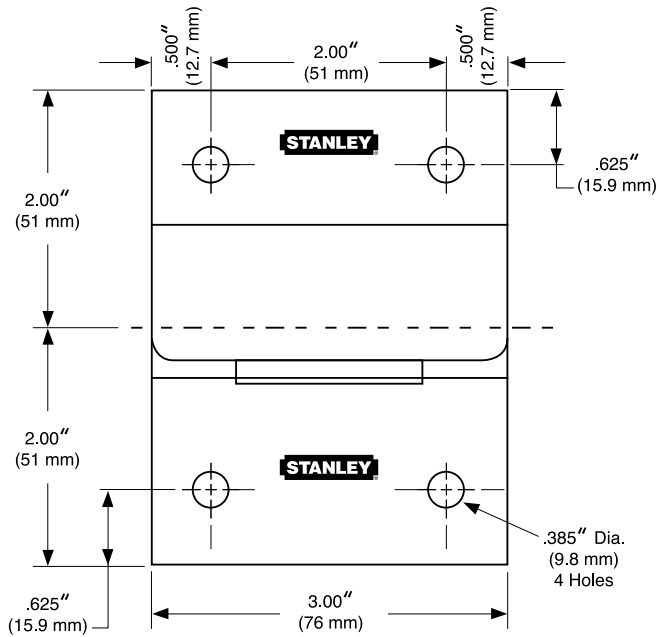
- Used on smaller doors installed into main doors to permit passage of food trays. Stop holds a small door at 90° forming a shelf
- Allow guards to apply manacles with cell doors closed
- No sharp projections
- Heavy gauge steel
- Replaces existing hinges with dangerous projecting stops
- Ends of the hinge barrels are solid, without visible pin lines



Hinge only (with or without holes) consult factory



854 Hinge with stop



854 EDP Number	Hinge Height		Hinge Width		Gauge of Metal		Pin Diameter		Number of 16 x 3/8" Torx Button Head Bolts Per Set	Quantity Per Box	Quantity Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)				LBS.	(Kg)
02-9377	3	(76)	4	(102)	.210	(5.3)	.388	(9.9)	8	1 Set	12 Sets	40	(18)

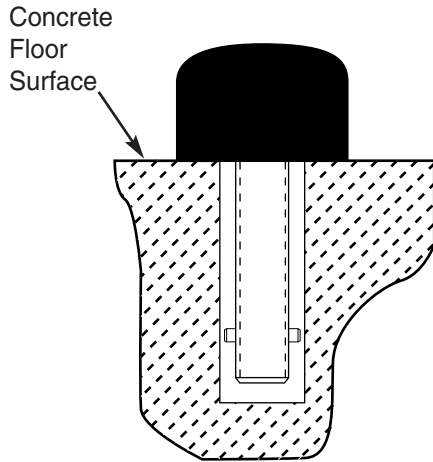
Set consists of 2 each hinges and 2 each 90° stops.



Heavy Duty Detention Floor Stops

3001 – Black neoprene floor stop

- Meets industry standard for 300 pound impact testing
- 90 Durometer
- Steel anchor post $\frac{5}{8}$ " diameter x 2 $\frac{1}{2}$ " long
- For concrete floors in security applications

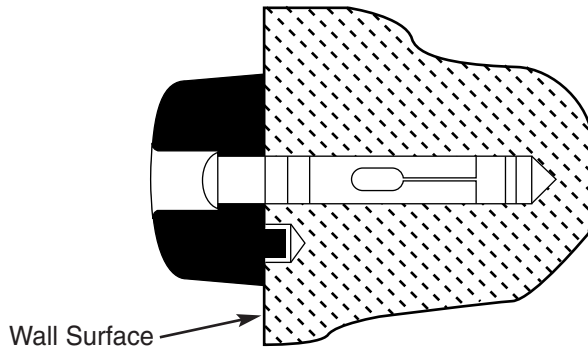


3001 EDP Number	Diameter		Height		Steel Anchor Post		Quantity Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)	Inches	(mm)		LBS.	(Kg)
81 – 1000	2"	(51)	1 $\frac{1}{2}$ "	(38)	$\frac{5}{8}$ " x 2 $\frac{1}{2}$ "	(15.9 x 63.5)	25	15	(6.8)

Heavy Duty Wall Stops

3002– Black neoprene wall stop

- Unique designed molded anti-rotational post resists unauthorized removal of stop
- 90 Durometer
- For concrete or cinder block walls in security applications
- Convex design



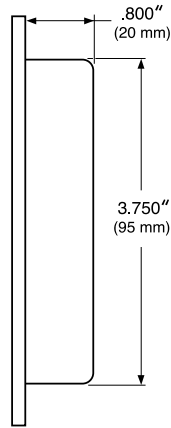
3002 EDP Number	Diameter		Projection		Security Torx Fastener		Quantity Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)	Inches	(mm)		LBS.	(Kg)
81 – 1001	2 $\frac{5}{8}$ "	(66.7)	1 $\frac{1}{4}$ "	(31.8)	$\frac{3}{8}$ " x 2 $\frac{1}{2}$ "	(9.5 x 63.5)	25	15	(6.8)

DETENTION HARDWARE

Heavy Duty Pulls and Handles

1004 – Flush pull – manganese bronze

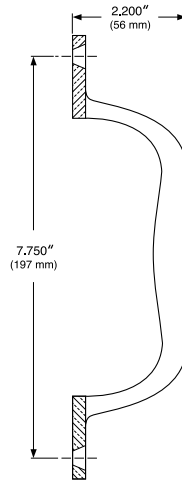
- Institutional type – one piece casting
- Supplied with security fasteners



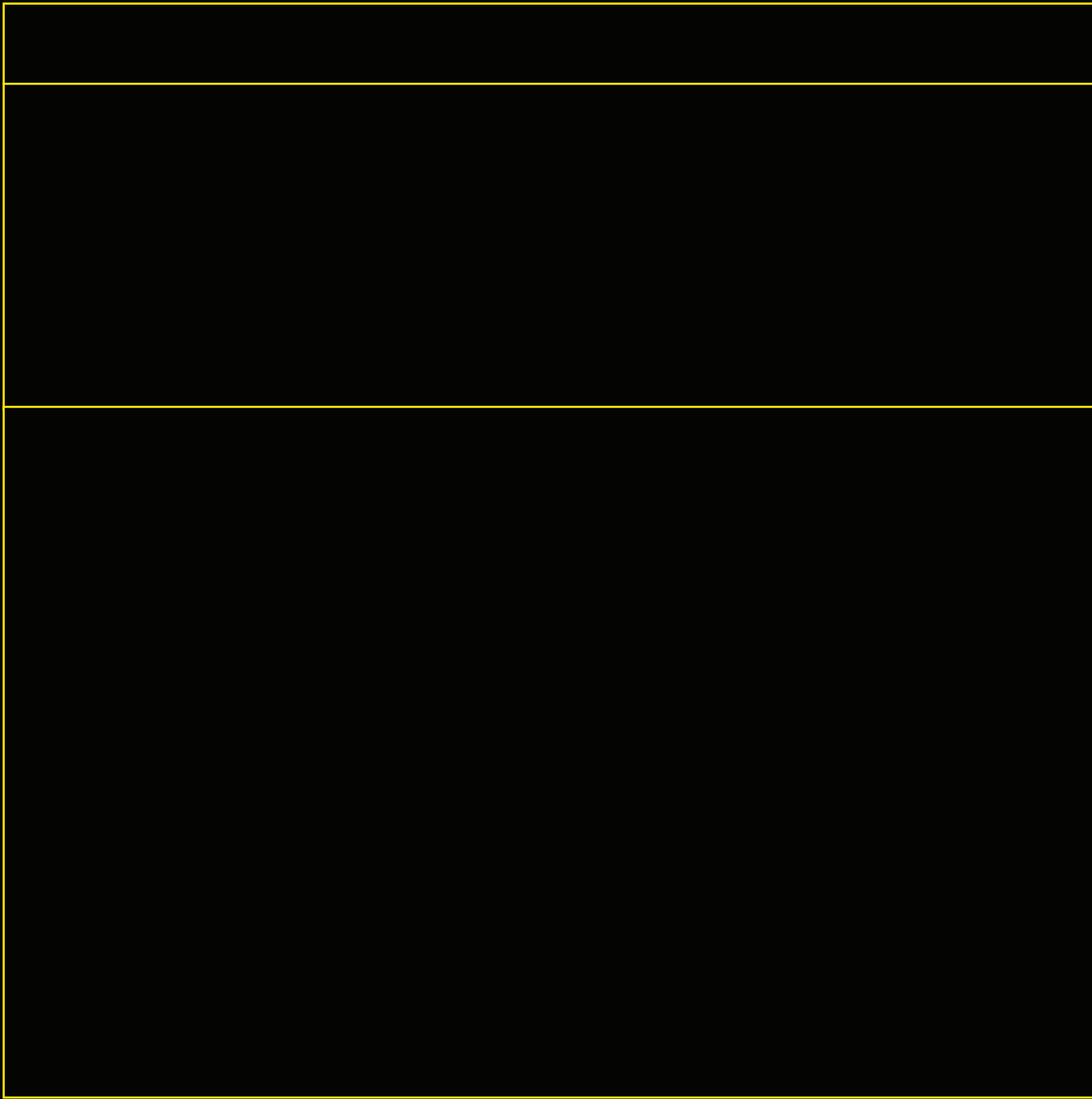
1004 EDP Number	Finish	Number of 1/4 – 20 x 1/2 security screws per piece	Quantity Per Box	Quantity Per Carton	Carton Weight	
					LBS.	(Kg)
32 – 2200	26D	4	5	30	45	(20.4)

2001 – Grip/pull handle– manganese bronze

- Heavy duty casting
- Supplied with security fasteners



2001 EDP Number	Finish	Number of 3/8 – 16 x 5/8 security screws per piece	Quantity Per Box	Quantity Per Carton	Carton Weight	
					LBS.	(Kg)
32 – 2100	26D	2	5	32	37	(16.8)



For more information on Stanley Security Solutions' products, services, and office locations visit our web site at www.stanleysecuritysolutions.com

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10M R611
SAH011

STANLEY[®]
Security Solutions



CONTINUOUS HINGES

ALUMINUM CONTINUOUS
GEARED HINGES

STANLEY[®]

TABLE OF CONTENTS			
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660 series continuous hinge design	3	Full surface swing clear	7
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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 160 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com

LifeSpan®

**660 Series
Continuous Hinges**



**Installs in minutes –
Lasts a lifetime**

Stanley 660 Series Continuous Hinge design is as tough and practical as it is attractive. Made of 6065 T5 aluminum, it is designed and built to last for the life of the building. Uniquely shaped “form follows function” bearing channel is pleasing to the eye and applauded by architects. The standard duty hinge has 16 bearings for a typical 7' door compared to 32 bearings on a heavy duty design for the same door height. Lubricated with polytetrafluoroethylene for maximum durability. Utilizing computer aided finite element analysis, is precision engineered with a minimum number of fasteners, thus reducing installation time without sacrificing performance. Innovative anti spinning through-bolts on half surface and full surface models reduce labor cost. All models conform to ANSI/BHMA A156-26-1996, Grade 1 Standard. Product right out of the box has a 90 minute fire rating. Hinges for 3 hour fire doors use heat activated fire pins (FP). All have been tested and certified by UL to UL10C Standard. Available in anodized clear (AL), BHMA 628 and dark bronze (DB), BHMA 710 finishes.

LifeSpan® – Limited Lifetime Warranty

Stanley warrants this product to the original purchaser for its useful life (not to exceed one year for products with electrical or electronic components) against deficiencies in material and workmanship. This LIMITED LIFETIME WARRANTY does not cover products that are improperly used, abused, altered or repaired. Deficient products will be replaced or repaired. In addition, any Architectural Hardware items trademarked with “LifeSpan®” are covered by a LIMITED LIFETIME WARRANTY for the life of the building in which the products were originally installed. Please call your Stanley Sales Representative or Customer Service for more information and/or return instructions.

THIS LIMITED LIFETIME WARRANTY IS GIVEN IN LIEU OF ALL OTHERS INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND EXCLUDES ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you. This LIMITED LIFETIME WARRANTY gives you specific legal rights that may vary from state to state.

ALUMINUM CONTINUOUS GEARED HINGES

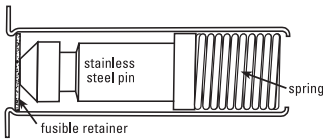


- 661 – Standard Duty for flush door and frame applications
- 661 HD – Heavy Duty for flush door and frame applications
- 662 – Standard Duty for 3/32" inset doors
- 662 HD – Heavy Duty for 3/32" inset doors

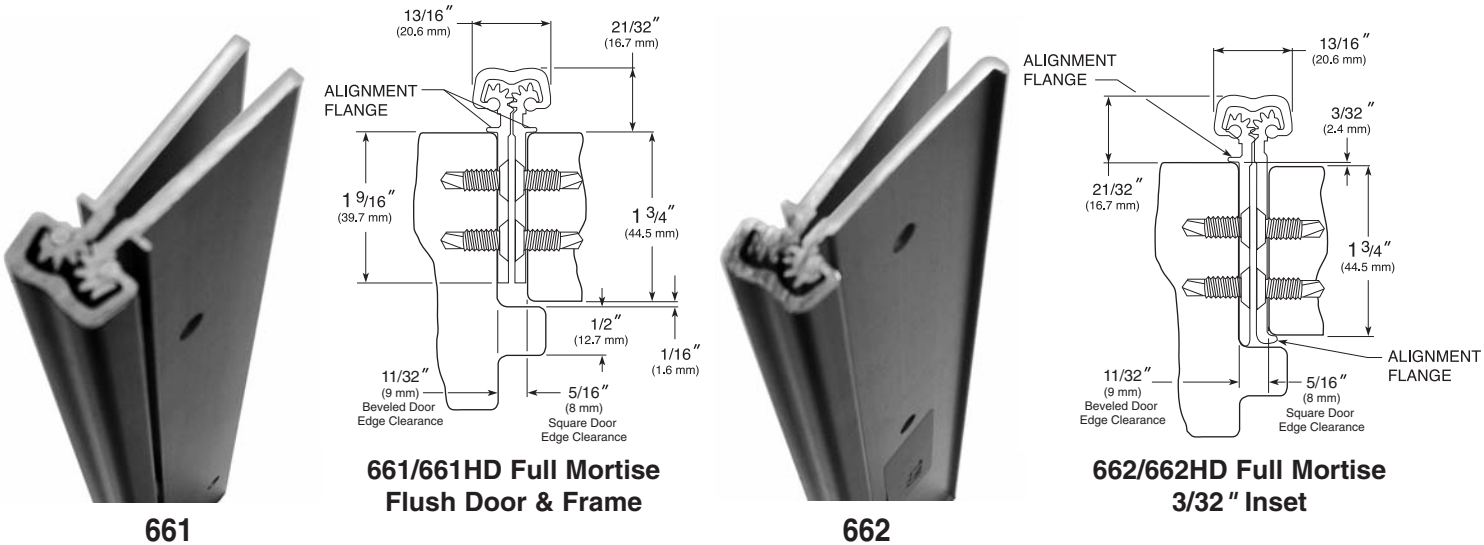
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Typically no additional reinforcement required
- Clear aluminum and dark bronze anodized finishes
- Standard duty and heavy duty conform to ANSI/BHMA Standard A156.26-1996, Grade 1
- Supports doors up to 600 lbs
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Engineered with polymer PTFE bearing for maximum durability
- 90-minute rating standard on all hinges. 3-hour rating available with fire pins (FP)

Hinges can be furnished as follows:

- with hospital tips (HT)
- with electric wires (CE)
- with electric switches (CS)
- with electric power transfer (EPT) prep – Specify manufacturer and model number of transfer
- with dutch door prep
- custom length
- school option



Fire Pin



Length		Finish	Number of #12-24 x 5/8" TEK Screws Per Hinge	Quantity Per Carton	Carton Weight	
Inches	(mm)				Lbs.	(KG)
79	(2006)	AL & DB	36	1	7	(15.4)
83	(2108)	AL & DB	36	1	7	(15.4)
95	(2413)	AL & DB	40	1	8	(17.6)
119	(3022)	AL & DB	44	1	10	(22)

Wood and Machine screws available separately



ALUMINUM CONTINUOUS GEARED HINGES



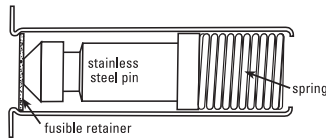
663 – Standard Duty
663 HD – Heavy Duty

- Distributes door weight and stress along the full length of door and frame
- Ideal for retrofit applications
- No misaligned pivot points of individual hinges
- Clear aluminum and dark bronze anodized finishes
- Standard duty and heavy duty conform to ANSI/BHMA Standard A156.26-1996, Grade 1
- Supports doors up to 600 lbs
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Engineered with polymer PTFE bearing for maximum durability
- Anti-spinning through-bolts reduce installation labor costs
- Universal cover plates for all configurations
- 90-minute rating standard on all hinges. 3-hour rating available with fire pins (FP)

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- school option

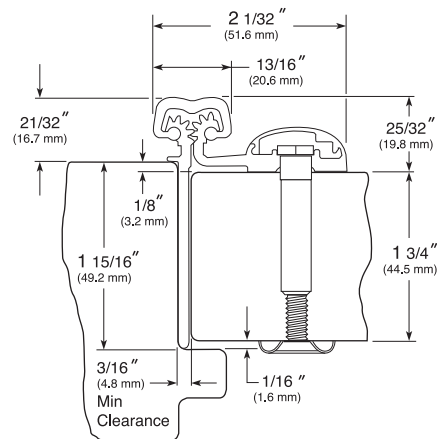
Replacement covers available separately



Fire Pin



663



Length		Finish	Number of #12-24 x 5/8" TEK Screws Per Hinge	Number of #12-24 x 1 1/2" Through-Bolts and #12-24 x 1 1/8" Machine Screws Per Hinge	Qty Per Carton	Carton Weight	
Inches	(mm)					Lbs.	(KG)
79	(2006)	AL & DB	34	10	1	7	(15.4)
83	(2108)	AL & DB	34	10	1	7	(15.4)
95	(2413)	AL & DB	38	11	1	8	(17.6)
119	(3022)	AL & DB	42	12	1	10	(22)

Wood and Machine screws available separately

ALUMINUM CONTINUOUS GEARED HINGES



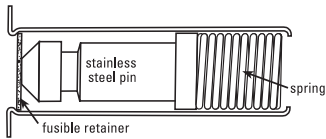
664 – Standard Duty for standard and narrow jamb applications
664 HD – Heavy Duty for standard and narrow jamb applications

- Distributes door weight and stress along the full length of door and frame
- Ideal for retrofit applications
- No misaligned pivot points of individual hinges
- Clear aluminum and dark bronze anodized finishes
- Standard duty and heavy duty conform to ANSI/BHMA Standard A156.26-1996, Grade 1
- Supports doors up to 600 lbs
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Engineered with polymer PTFE bearing for maximum durability
- Anti-spinning through-bolts reduce installation labor costs
- Universal cover plates for all configurations
- 90-minute rating standard on all hinges. 3-hour rating available with fire pins (FP)

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- school option

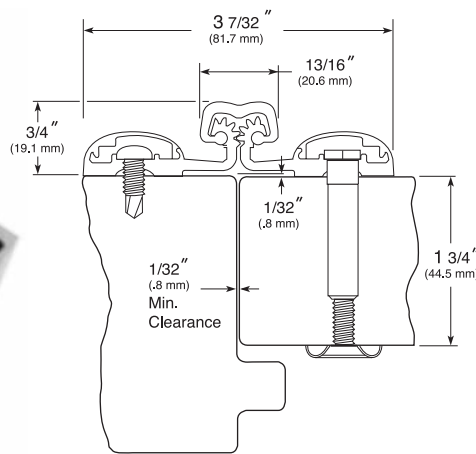
Replacement covers available separately



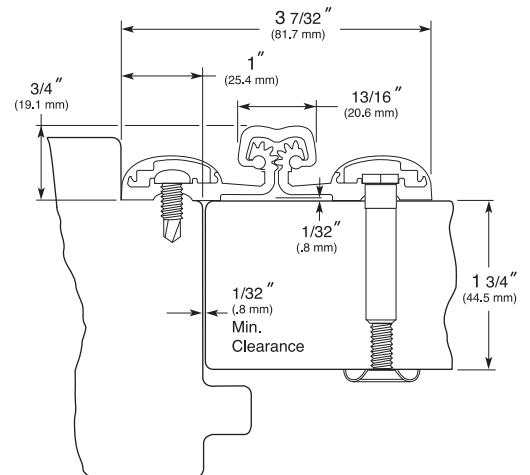
Fire Pin



664



Standard Jamb



Narrow Jamb

Length		Finish	Number of #12-24 x 5/8" TEK Screws Per Hinge	Number of #12-24 x 1 1/2" Through-Bolts and #12-24 x 1 1/8" Machine Screws Per Hinge	Qty Per Carton	Carton Weight	
Inches	(mm)					Lbs.	(KG)
79	(2006)	AL & DB	34	10	1	7	(15.4)
83	(2108)	AL & DB	34	10	1	7	(15.4)
95	(2413)	AL & DB	38	11	1	8	(17.6)
119	(3022)	AL & DB	42	12	1	10	(22)

Wood and Machine screws available separately

ALUMINUM CONTINUOUS GEARED HINGES

Full Surface Swing Clear **LifeSpan** 

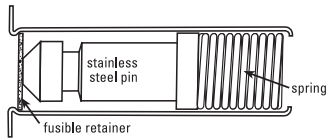
665 – Standard Duty
665 HD – Heavy Duty

- Swings door out of opening at approximately 90 degrees
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Clear aluminum and dark bronze anodized finishes
- Standard duty and heavy duty conform to ANSI/BHMA Standard A156.26-1996, Grade 1
- Supports doors up to 600 lbs
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Engineered with polymer PTFE bearing for maximum durability
- Anti-spinning through-bolts reduce installation labor costs
- Universal cover plates for all configuration
- 90-minute rating standard on all hinges. 3-hour rating available with fire pins (FP)

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- school option

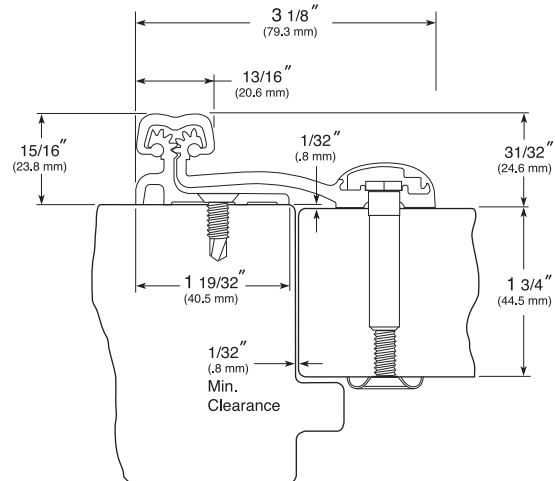
Replacement covers available separately



Fire Pin



665



Length Inches (mm)	Finish	Number of #12-24 x 5/8" TEK Screws Per Hinge	Number of #12-24 x 1 1/2" Through-Bolts and #12-24 x 1 1/8" Machine Screws Per Hinge	Qty Per Carton	Carton Weight	
					Lbs.	(KG)
79 (2006)	AL & DB	34	10	1	7	(15.4)
83 (2108)	AL & DB	34	10	1	7	(15.4)
95 (2413)	AL & DB	38	11	1	8	(17.6)
119 (3022)	AL & DB	42	12	1	10	(22)

Wood and Machine screws available separately

ALUMINUM CONTINUOUS GEARED HINGES



EDP Numbers and Extras

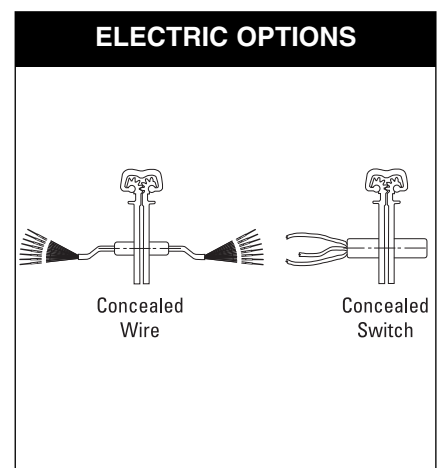
CLASS NO.	LENGTH	FINISH	EDP NO.
661	79"	AL	47-7767
	79"	DB	47-7768
	83"	AL	47-7769
	83"	DB	47-7770
	95"	AL	47-7771
	95"	DB	47-7772
	119"	AL	47-7773
	119"	DB	47-7774
661HD	79"	AL	47-7808
	79"	DB	47-7809
	83"	AL	47-7810
	83"	DB	47-7811
	95"	AL	47-7812
	95"	DB	47-7813
	119"	AL	47-7814
	119"	DB	47-7815

CLASS NO.	LENGTH	FINISH	EDP NO.
662	79"	AL	47-7759
	79"	DB	47-7760
	83"	AL	47-7761
	83"	DB	47-7762
	95"	AL	47-7763
	95"	DB	47-7764
	119"	AL	47-7765
	119"	DB	47-7766
662HD	79"	AL	47-7800
	79"	DB	47-7801
	83"	AL	47-7802
	83"	DB	47-7803
	95"	AL	47-7804
	95"	DB	47-7805
	119"	AL	47-7806
	119"	DB	47-7807

CLASS NO.	LENGTH	FINISH	EDP NO.
663	79"	AL	47-7751
	79"	DB	47-7752
	83"	AL	47-7753
	83"	DB	47-7754
	95"	AL	47-7755
	95"	DB	47-7756
	119"	AL	47-7757
	119"	DB	47-7758
663HD	79"	AL	47-7792
	79"	DB	47-7793
	83"	AL	47-7794
	83"	DB	47-7795
	95"	AL	47-7796
	95"	DB	47-7797
	119"	AL	47-7798
	119"	DB	47-7799

CLASS NO.	LENGTH	FINISH	EDP NO.
664	79"	AL	47-7775
	79"	DB	47-7776
	83"	AL	47-7777
	83"	DB	47-7778
	95"	AL	47-7779
	95"	DB	47-7780
	119"	AL	47-7781
	119"	DB	47-7782
664HD	79"	AL	47-7816
	79"	DB	47-7817
	83"	AL	47-7818
	83"	DB	47-7819
	95"	AL	47-7820
	95"	DB	47-7821
	119"	AL	47-7822
	119"	DB	47-7823

CLASS NO.	LENGTH	FINISH	EDP NO.
665	79"	AL	47-7784
	79"	DB	47-7785
	83"	AL	47-7786
	83"	DB	47-7787
	95"	AL	47-7788
	95"	DB	47-7789
	119"	AL	47-7790
	119"	DB	47-7791
665HD	79"	AL	47-7824
	79"	DB	47-7825
	83"	AL	47-7826
	83"	DB	47-7827
	95"	AL	47-7828
	95"	DB	47-7829
	119"	AL	47-7830
	119"	DB	47-7831



Replacement covers for Half Surface and Full Surface Hinges

- 10' Section-AL 47-7922
- 10' Section-DB 47-7923

Screw Packs

- 50 Ea. - TEK Screw Finish-AL 57-0119
- 50 Ea. - TEK Screw Finish-DB 57-0120

The Following Screw Pack Sets Will Cover Up To A 10' Hinge

- Set - Through-Bolt Full Surface-AL 57-0121
- Set - Through-Bolt Full Surface-DB 57-0122
- Set - Through-Bolt Half Surface-AL 57-0123
- Set - Through-Bolt Half Surface-DB 57-0124

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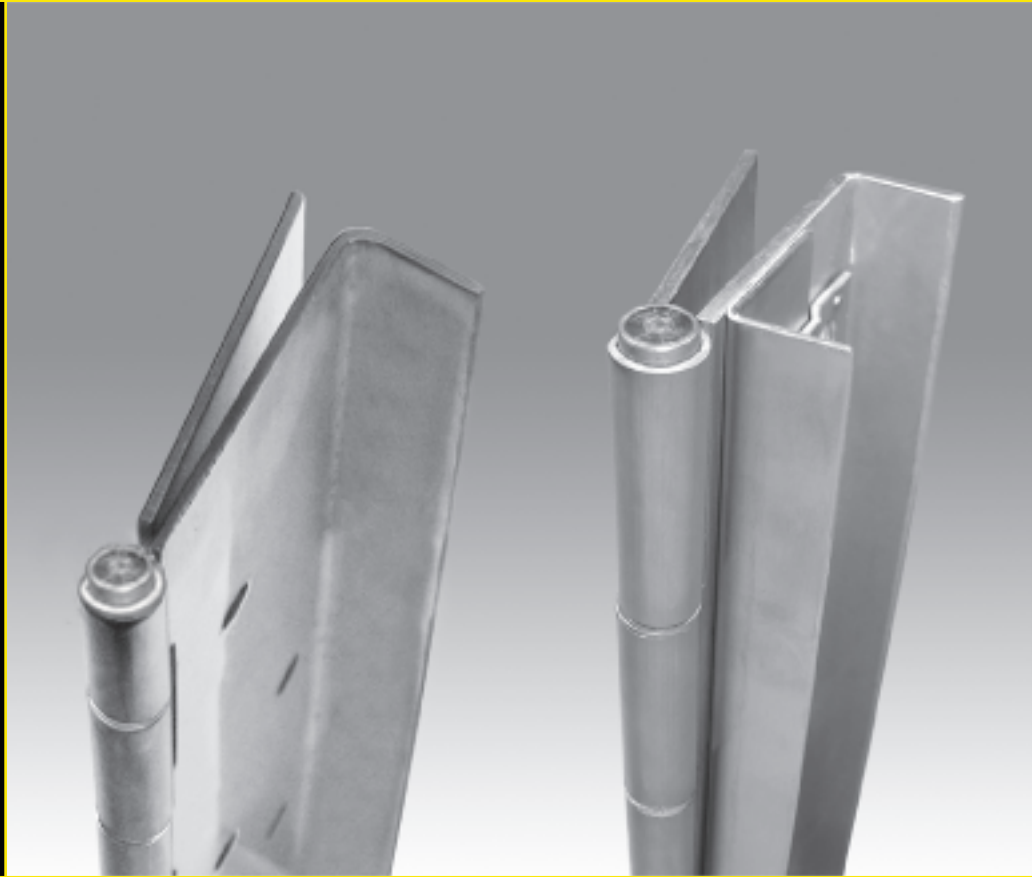
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10M 910
SAH012

STANLEY[®]
Security Solutions



CONTINUOUS HINGES

STEEL & STAINLESS STEEL
CONTINUOUS BARREL TYPE

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

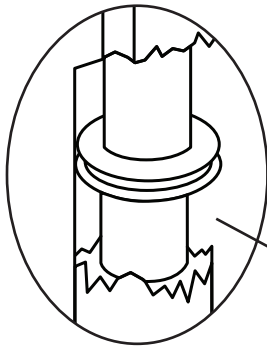
Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

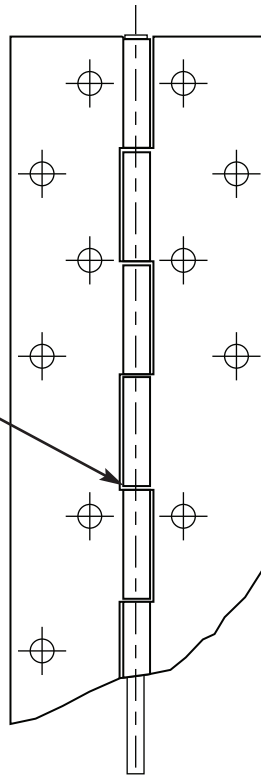
Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 165 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com



Except for stainless steel top and bottom bearings, Medical bearings are located between all other knuckles



LifeSpan® 

640, 650, and 650HD Series Continuous Hinges

Resembling a piano - type pinned hinge, high performance mild steel, and 304 series stainless steel continuous hinges designed to withstand the most-punishing day-in-day-out use.

In high use and high abuse openings, safe and reliable door operation depends on the smooth performance of the hinge system. A continuous hinge ensures complete alignment between the door and frame, resulting in smooth, maintenance free operation in the most demanding conditions.

- Medical bearings contain solid lubricants that contribute to low dynamic and static coefficient of friction and when combined with elements that complete its chemical and physical make up result in low abrasion resistance and longer life
- Superior bearing assembly design resists dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if Medical bearings degrade during a fire
- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26-2006, Grade 1
- Standard duty hinge is made out of 14 gauge material and supports doors weighing up to 600lbs., not exceeding 4' in width.
- Heavy duty hinge is made out of 12 gauge material and supports doors weighing up to 900lbs., not exceeding 4' in width.
- UL and ULC tested and certified to UL10C standard for 4' x 10' single doors and 8' x 10' pairs of doors
- Easily cleaned smooth surfaces prevent accumulation of dust and dirt
- Integrated edge guards protect the exposed door edges from damage
- Slim barrel draws minimum attention to the hinge

LifeSpan® – Limited Lifetime Warranty

Stanley warrants this product to the original purchaser for its useful life (not to exceed one year for products with electrical or electronic components) against deficiencies in material and workmanship. This LIMITED LIFETIME WARRANTY does not cover products that are improperly used, abused, altered or repaired. Deficient products will be replaced or repaired. In addition, any Architectural Hardware items trademarked with "LifeSpan®" are covered by a LIMITED LIFETIME WARRANTY for the life of the building in which the products were originally installed. Please call your Stanley Sales Representative or Customer Service for more information and/or return instructions.

THIS LIMITED LIFETIME WARRANTY IS GIVEN IN LIEU OF ALL OTHERS INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND EXCLUDES ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you. This LIMITED LIFETIME WARRANTY gives you specific legal rights that may vary from state to state.

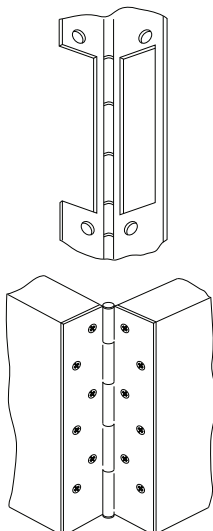
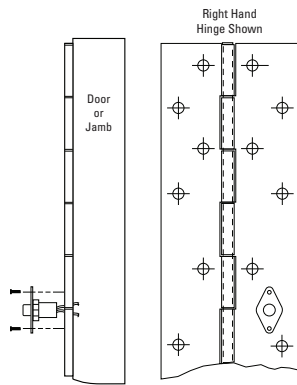
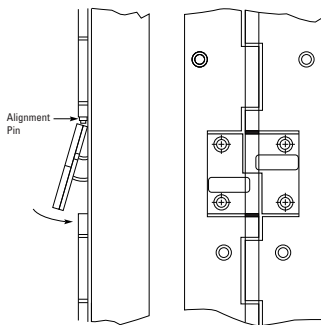
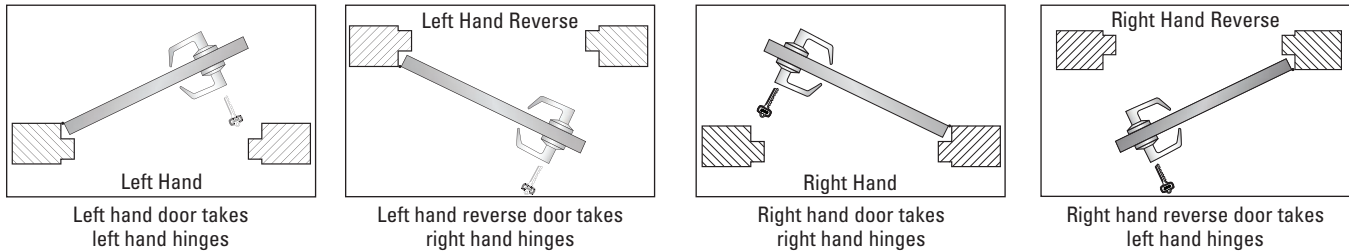
ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

General Information and Options



How to Determine Hand of Hinge

- The hand of a hinge is determined from the outside of the door to which it is applied
- The outside of a cupboard, bookcase or closet door is the room side. For other doors, the outside is usually the side from which security is necessary.



CE – (Concealed Electric)

Serviceable removable electric current transfer conducts current regardless of door position. Available option with models: 641, 643, 651, 651HD, 653 and 653HD. Specify hand. Order hinge with CE600, EDP #16-2101. For heavy duty models add SHCE600HD shims to CE600, EDP #47-7726

Wires: Wire size – 26 gauge continuous from one side of hinge to the other.

4 wire application pair the following wires together.

Black & Yellow – Red & Blue

Green & Purple – Brown & White

6 wire application use the Black, Yellow, Red, Blue, Brown & White wires.

Cut or tie off the Gray & Purple wires.

8 wire applications use all 8 wires.

CS – (Concealed Switch)

Allows for opening monitoring. Used to activate alarms, monitoring devices, or other security equipment. Specify hand.

Available on models: 641, 643, 651, and 653.

EPT – (Electric Power Transfer)

Hinge leaves are modified to accept an EPT devise. Specify hand, location, manufacturer and model of EPT.

Available on models: 641, 643, 651, 651HD, 652, 652HD, 653, and 653HD.

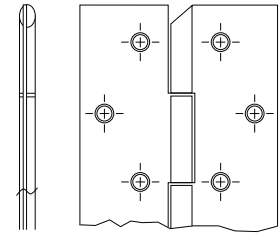
Narrow (Sheared) Leaf for 1 3/8" Thick Doors. Available on models 641 and 651

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Options

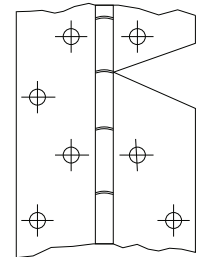
HT – (Hospital Tip)

Barrel end on hinge top is sloped making cleaning easier and making it difficult to attach ropes, clothing apparel, and other items, thus reducing the risk of harm. Specify hand.



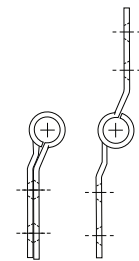
Dutch Door Prep. –

Frame leaf is continuous and door leaf is two piece. Specify cut portion from bottom of hinge, space between leafs, and hand.



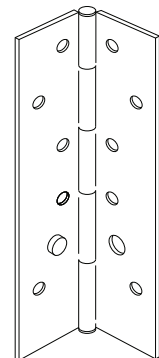
RB – (Raised Barrel)

For applications where doors are set deep on a wide frame.



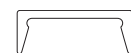
Security Stud –

Full mortise (Edge mount) hinges are available with security studs for added safety. When the door is closed position, a stud attached to one leaf projects into a hole in the matching leaf.



Aluminum Replacement Covers –

For half and full surface hinges



Shims –

To correct excessive clearance between doors and frames.

shim



Fasteners –

Steel through-bolts 1/4" – 20 x 1 3/4" with 1/4" – 20 x 1" philips head machine screws. Packed 16 per pack. EDP #16-1146. Philips head #10 x 1/2" self drilling screws.

ADB –

Automatic door bottom prep. A cut out to accomodate an automatic door bottom.

SIZING DOORS AND FRAMES FOR STANDARD DUTY STEEL AND STAINLESS STEEL CONTINUOUS HINGES*

Sizing of door width for models: 641, 643, 651, 653

Single Doors

Square edge door		1/8" in 2" beveled edge door	
Hinge allowance	1/4" (6.4mm)	Hinge allowance	17/64" (6.7mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities	1/32" (0.8mm)
Typical lockside clearance	1/8" (3.2mm)	Typical lockside clearance	1/8" (3.2mm)
Total	13/32" (10.4 mm)	Total	27/64" (10.7mm)

Pairs of Doors

Square edge door		1/8" in 2" beveled edge door	
Allowance for 2 hinges	1/2" (12.7mm)	Allowance for 2 hinge	17/32" (13.5mm)
Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical clearance between doors	3/16" (4.8mm)	Typical clearance between doors	3/16" (4.8mm)
Total	3/4" (19.1mm)	Total	25/32" (19.9mm)

Sizing of door width for models: 644, 645, 647, 654, 655, 657

Single Door (Square or beveled edge)		Pair of Doors (Square or beveled edge)	
Hinge allowance	1/8" (3.2mm)	Allowance for 2 hinges	1/4" (6.4mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical lockside clearance	1/8" (3.2mm)	Typical clearance between doors	3/16" (4.8mm)
Total	9/32" (6.5mm)	Total	1/2" (12.8mm)

Sizing of door width for models: 646, 656

Single Door (Square or beveled edge)		Pair of Doors (Square or beveled edge)	
Hinge allowance	5/32" (4.0mm)	Allowance for 2 hinges	5/16" (8.0mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical lockside clearance	1/8" (3.2mm)	Typical clearance between doors	3/16" (4.8mm)
Total	5/16" (8.0mm)	Total	19/16" (14.4mm)

Sizing of door width for model 652

Single Door (Square or beveled edge)		Pair of Doors (Square or beveled edge)	
Hinge allowance	5/16" (8.0mm)	Allowance for 2 hinges	5/8" (16.0mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical lockside clearance	1/8" (3.2mm)	Typical clearance between doors	3/16" (4.8mm)
Total	15/32" (8.0mm)	Total	7/8" (22.4mm)

*Please be advised that the suggested clearances outlined here are for typical applications. Individual application may differ.

Please also note that:

Beveled edge doors are measured on the high side.

Recommended head clearance for all models is 1/8".

SIZING DOORS AND FRAMES FOR HEAVY DUTY STAINLESS STEEL CONTINUOUS HINGES*

Sizing of door width for model 651HD

Single Doors

<u>Square edge door</u>		<u>1/8" in 2" beveled edge door</u>	
Hinge allowance	5/16" (7.9mm)	Hinge allowance	11/32" (8.7mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities	1/32" (0.8mm)
Typical lockside clearance	1/8" (3.2mm)	Typical lockside clearance	1/8" (3.2mm)
Total	15/32" (11.9 mm)	Total	1/2" (12.7mm)

Pairs of Doors

<u>Square edge door</u>		<u>1/8" in 2" beveled edge door</u>	
Allowance for 2 hinges	5/8" (15.9mm)	Allowance for 2 hinges	11/16" (17.5mm)
Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical clearance between doors	3/16" (4.8mm)	Typical clearance between doors	3/16" (4.8mm)
Total 7/8" (22.2mm)	Total	15/16" (23.9mm)	

Sizing of door width for model 652HD

<u>Single Door (Square or beveled edge)</u>		<u>Pair of Doors (Square or beveled edge)</u>	
Hinge allowance	3/8" (9.5mm)	Allowance for 2 hinges	3/4" (19.0mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical lockside clearance	1/8" (3.2mm)	Typical clearance between doors	3/16" (4.8mm)
Total	17/32" (13.5mm)	Total	1.0" (25.4mm)

Sizing of door width for models 653HD

Single Doors

<u>Square edge door</u>		<u>1/8" in 2" beveled edge door</u>	
Hinge allowance	5/16" (7.9mm)	Hinge allowance	11/32" (8.7mm)
Allowance for frame irregularities	1/32" (0.8mm)	Allowance for frame irregularities	1/32" (.08mm)
Typical lockside clearance	1/8" (3.2mm)	Typical lockside clearance	1/8" (3.2mm)
Total	15/32" (11.9 mm)	Total	1/2" (12.7mm)

Pairs of Doors

<u>Square edge door</u>		<u>1/8" in 2" beveled edge door</u>	
Allowance for 2 hinges	5/8" (15.9mm)	Allowance for 2 hinges	11/16" (17.5mm)
Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)	Allowance for frame irregularities (x2 frames)	1/16" (1.6mm)
Typical clearance between doors	3/16" (4.8mm)	Typical clearance between doors	3/16" (4.8mm)
Total	7/8" (22.2mm)	Total	15/16" (23.9mm)

*Please be advised that the suggested clearances outlined here are for typical applications. Individual application may differ.

Please also note that:

Beveled edge doors are measured on the high side.

Recommended head clearance for all models is 1/8".

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Full Mortise **LifeSpan**

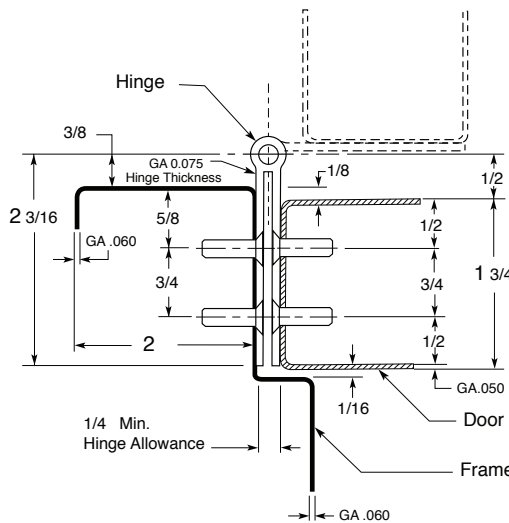
641 – (ANSI A81011B & A81022B) – Standard duty, steel for 1/8" inset doors

651 – (ANSI A51011B & A51022B) – Standard duty, stainless steel for 1/8" inset doors

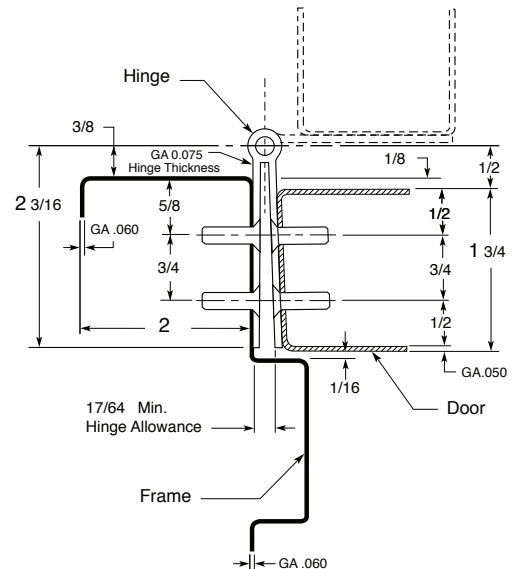
- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Fire rated for up to and including 3 hours
- Leaves attached to the edge of door and frame, revealing only the slim hinge bevel when door is closed
- Steel hinges supplied prime coated for painting. For other powder coated finishes consult factory
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pins
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- narrow (sheared) leaves for 1 3/8" thick doors
- with hospital tips (HT)
- with dutch door prep
- with electric wires (CE)
- with electric switches (CS)
- with electric power transfer (EPT) prep – Specify manufacturer and model number of transfer
- with raised barrel (RB)
- custom length
- with welded pin



Square Edge Door



**Beveled 1/8" in 2"
(3.2 in 51mm) door**

Length		Finish		Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	641	651				Lbs.	(KG)
6' 8"	(2032)	P	32D	40	20	1	14	(6.4)
7' 0"	(2134)	P	32D	42	21	1	14	(6.4)
7' 2"	(2184)	P	32D	42	21	1	14	(6.4)
8' 0"	(2286)	P	32D	46	23	1	16	(7.3)
10' 0"	(3048)	P	32D	54	27	1	20	(9.1)

Machine screws available separately

Full Mortise

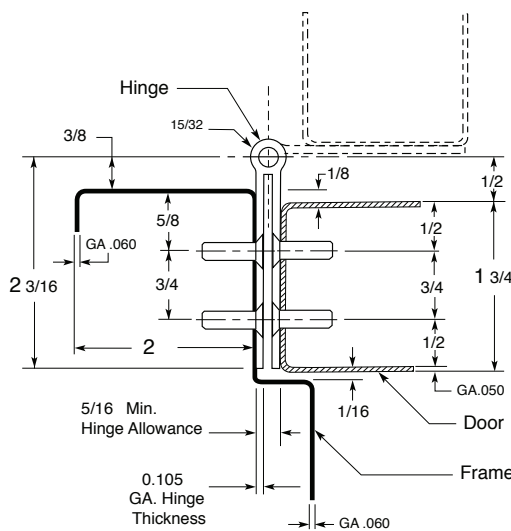


651HD – (ANSI A51011B & A51021B) – Heavy duty 12 gauge stainless steel for 1/8" inset doors.

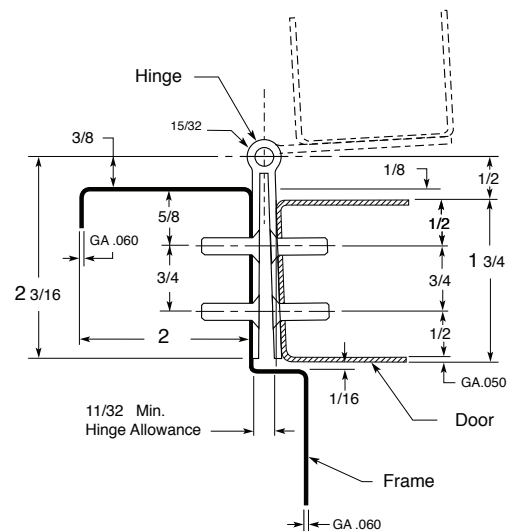
- Suitable for healthcare and correctional facilities where high use and/or abuse is expected
- Supports doors up to 900 lbs. 4' maximum door width
- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150 and 1-300
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Fire rated for up to and including 3 hours
- Leaves attached to the edge of door and frame, revealing only the slim hinge bevel when door is closed
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pins
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- with electric wires (CE) – Specify CE600 current transfer with SHCE600HD shims along with hinge model
- with electric power transfer (EPT) prep – Specify manufacturer and model number of transfer
- with raised barrel (RB)
- custom length
- with welded pin



Square Edge Door



Beveled 1/8" in 2" (3.2 in 51mm) door

Length		Finish		Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	641	651				Lbs.	(KG)
6' 8"	(2032)	P	32D	40	20	1	17	(7.7)
7' 0"	(2134)	P	32D	42	21	1	17	(7.7)
7' 2"	(2184)	P	32D	42	21	1	17	(7.7)
8' 0"	(2286)	P	32D	46	23	1	19	(8.6)
10' 0"	(3048)	P	32D	54	27	1	24	(10.9)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Full Mortise with Adjustable Full-Wrap Edge Guard

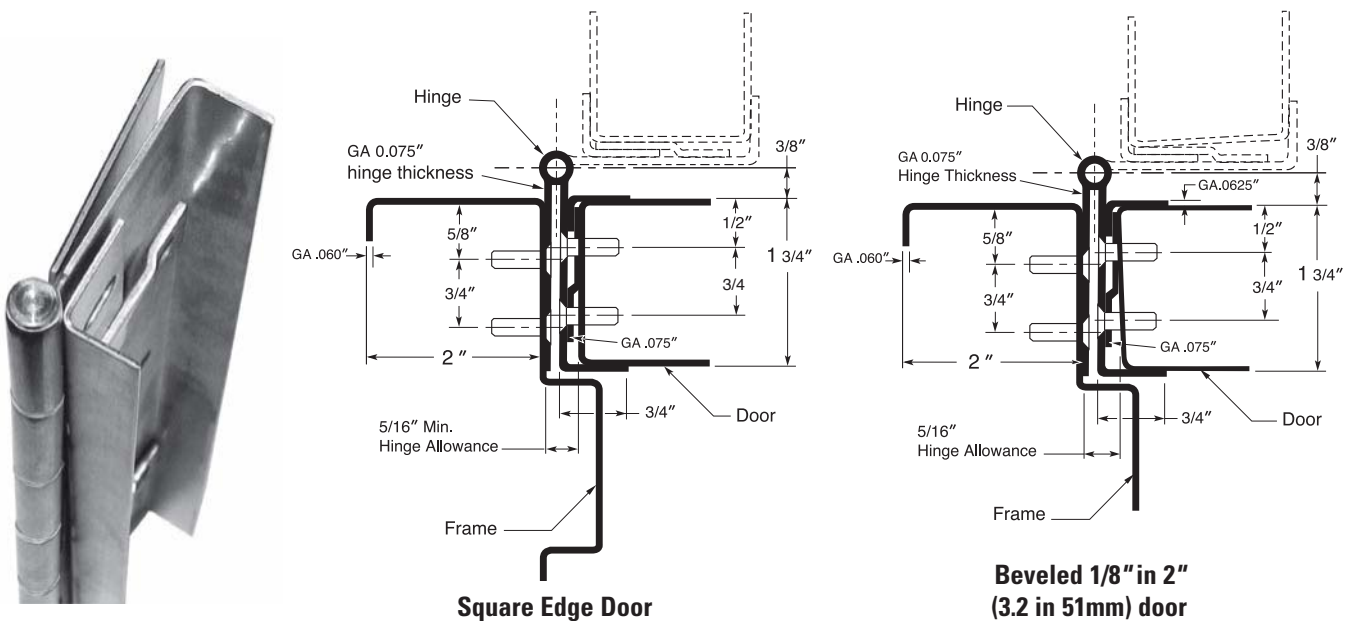


652 – (ANSI A51011B & A51022B) – Standard duty, stainless steel with adjusta-screws

- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Full wrap edge guard protects the inside and outside hinge edge of the door and adjusts to various door thicknesses from 1 5/8" to 1 3/4"
- Adjusta-screws have a 3/8" range for correcting fit
- Available finishes are (32) highly polished, and (32D) satin. For special powder coated finishes consult factory
- 1/4" diameter pin
- Fire rated for up to and including 3-hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- with electric power transfer (EPT) prep. – Specify manufacturer and model of transfer
- with welded pin



Length		Finish	Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)					Lbs.	(KG)
6' 8"	(2032)	32D	40	20	1	18	(8.2)
7' 0"	(2134)	32D	42	21	1	18	(8.2)
7' 2"	(2184)	32D	42	21	1	18	(8.2)
8' 0"	(2286)	32D	46	23	1	21	(9.5)
10' 0"	(3048)	32D	54	27	1	27	(12.2)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

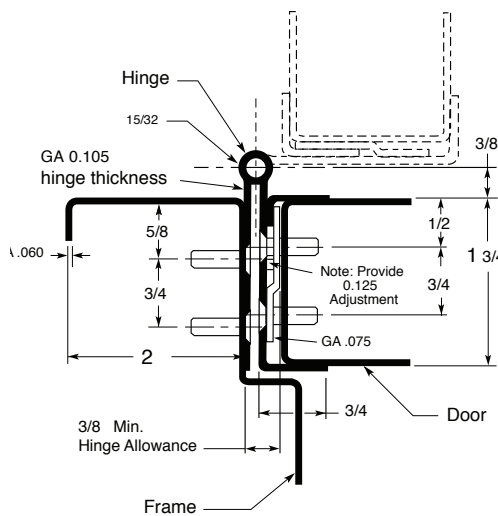
Full Mortise with Full-Wrap Edge Guard LifeSpan® 

652HD – (ANSI A51011B & A51021B) – Heavy duty 12 gauge stainless steel with adjusta-screws.

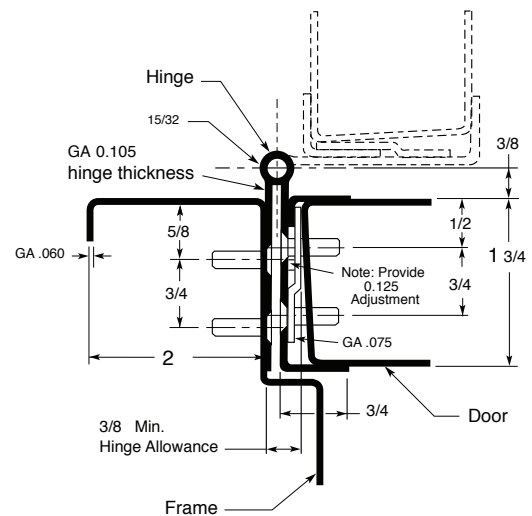
- Suitable for healthcare and correctional facilities where high use and/or abuse is expected
- Supports doors up to 900 lbs., 4' maximum door width
- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150 and 1-300
- Full wrap edge guard protects the inside and outside of door
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Protects the inside edge of door, which is most exposed to damage when open
- Fire rated for up to and including 3 hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Adjusta-screws have a 3/8" range for correcting fit
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- with electric power transfer (EPT) prep. – Specify manufacturer and model of transfer
- with welded pin



Square Edge Door



Beveled 1/8" in 2" (3.2 in 51mm) door

Length		Finish		Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	643	653				Lbs.	(KG)
6' 8"	(2032)	P	32D	40	20	1	25	(11.3)
7' 0"	(2134)	P	32D	42	21	1	25	(11.3)
7' 2"	(2184)	P	32D	42	21	1	25	(11.3)
8' 0"	(2286)	P	32D	46	23	1	29	(13.2)
10' 0"	(3048)	P	32D	54	27	1	36	(16.3)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Full Mortise with Full-Wrap Edge Guard **LifeSpan**

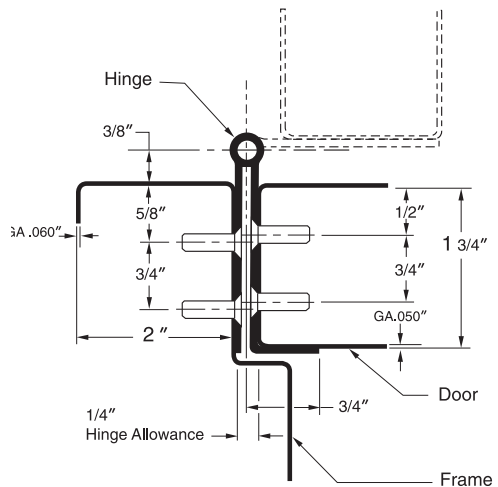
643 – (ANSI A81011B & A81022B) – Standard duty steel

653 – (ANSI A51011B & A51022B) – Standard duty stainless steel

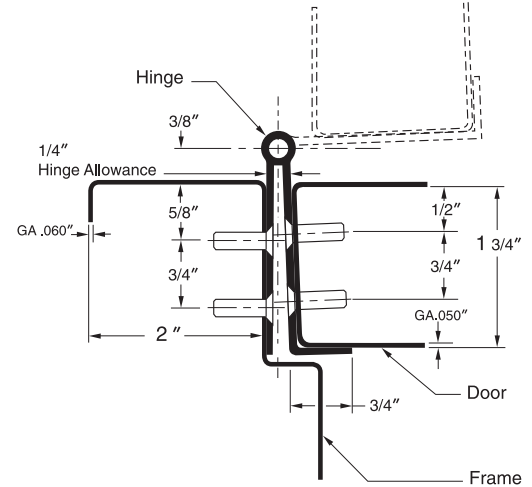
- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Protects the inside edge of door, which is most exposed to damage when open
- Fire rated for up to and including 3 hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Steel hinges are prime coated for painting. For other powder coated finishes consult factory
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- with electric wires (CE)
- with electric switches (CS)
- with electric power transfer (EPT) prep – Specify manufacturer and model of transfer
- custom length
- with welded pin



Square Edge Door



Beveled 1/8" in 2" (3.2 in 51mm) door

Length		Finish		Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	643	653				Lbs.	(KG)
6' 8"	(2032)	P	32D	40	20	1	16	(7.3)
7' 0"	(2134)	P	32D	42	21	1	16	(7.3)
7' 2"	(2184)	P	32D	42	21	1	16	(7.3)
8' 0"	(2286)	P	32D	46	23	1	18	(8.2)
10' 0"	(3048)	P	32D	54	27	1	22	(10)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Full Mortise with Half-Wrap Edge Guard

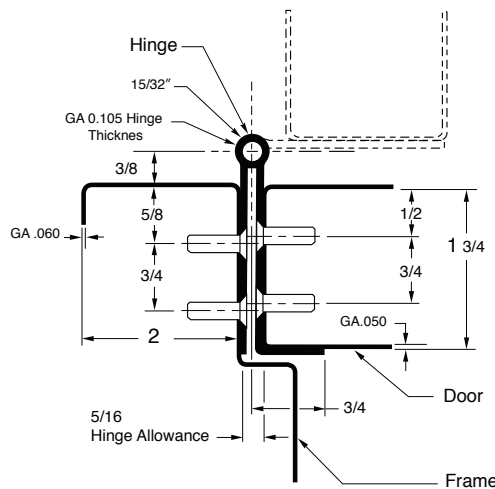


653HD – (ANSI A51011B & A51021B) – Heavy duty 12 gauge stainless steel.

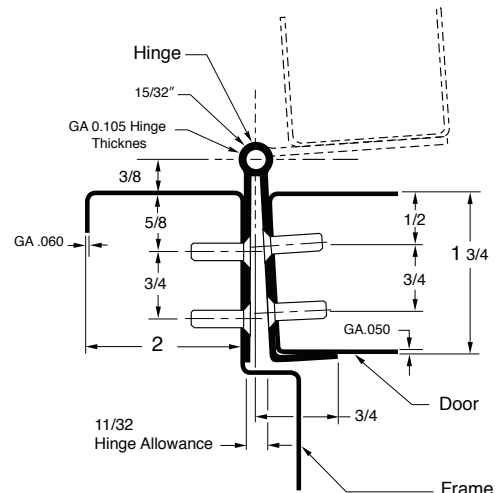
- Suitable for healthcare and correctional facilities where high use and/or abuse is expected
- Supports doors up to 900 lbs., 4' maximum door width
- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150 and 1-300
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Protects the inside edge of door, which is most exposed to damage when open
- Fire rated for up to and including 3 hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- with electric wires (CE) – Specify CE600 current transfer with SHCE600HD shims along with hinge model
- with electric power transfer (EPT) prep – Specify manufacturer and model of transfer
- custom length
- with welded pin



Square Edge Door



Beveled 1/8" in 2" (3.2 in 51mm) door

Length		Finish		Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	643	653				Lbs.	(KG)
6' 8"	(2032)	P	32D	40	20	1	21	(9.5)
7' 0"	(2134)	P	32D	42	21	1	21	(9.5)
7' 2"	(2184)	P	32D	42	21	1	21	(9.5)
8' 0"	(2286)	P	32D	46	23	1	23	(10.4)
10' 0"	(3048)	P	32D	54	27	1	30	(13.6)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Half Mortise **LifeSpan**

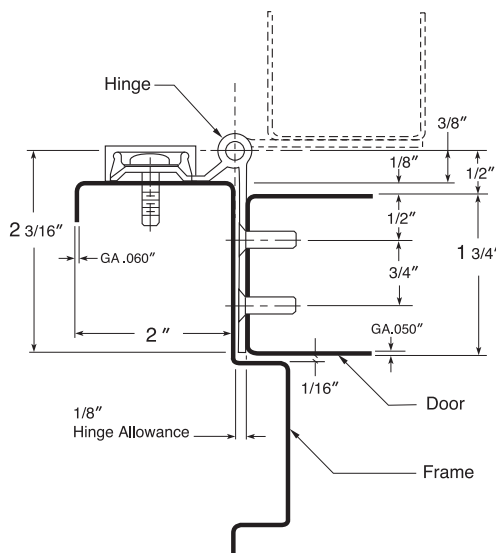
644 – (ANSI A82011B & A82022B) – Standard duty, steel
654 – (ANSI A52011B & A52022B) – Standard duty, stainless steel

- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Ideal for retrofit applications
- Fire rated for up to and including 3 hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Steel hinges are prime coated for painting. For other powder coated finishes consult factory
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- 6' 8", 7' and 7' 2" use 6 screw cover clips. 8' uses 8 screw cover clips. 10' 0" uses 9 screw cover clips.
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- with welded pin

Replacement covers available separately



Length Feet	Length (mm)	Finish		Number of 1/4" X 20 X 3/4" Self Drilling Screws Per Hinge	Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
		644	654					Lbs.	(KG)
6' 8"	(2032)	P	32D	13	20	20	1	14	(6.4)
7' 0"	(2134)	P	32D	13	21	21	1	14	(6.4)
7' 2"	(2184)	P	32D	13	21	21	1	14	(6.4)
8' 0"	(2286)	P	32D	14	23	23	1	16	(7.3)
10' 0"	(3048)	P	32D	17	27	27	1	20	(9.1)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Half Mortise with Half-Wrap Edge Guard



645 – (ANSI A82011B & A82022B) – Standard duty steel

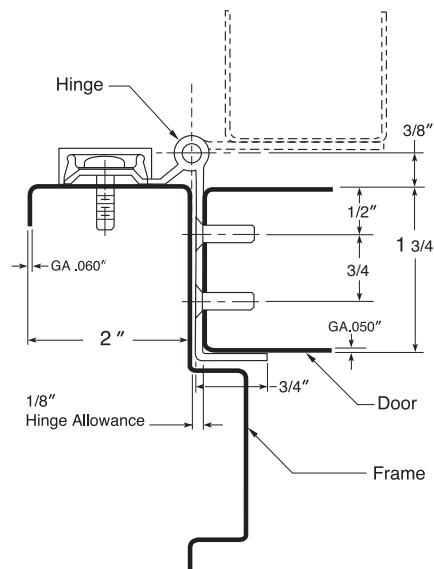
655 – (ANSI A52011B & A52022B) – Standard duty stainless steel

- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Ideal for retrofit applications
- Edge guard protects the inside edge of door, which is most exposed to damage when open
- Fire rated for up to and including 3 hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Steel hinges are prime coated for painting. For other powder coated finishes consult factory
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- 6' 8", 7' and 7' 2" use 6 screw cover clips. 8' uses 8 screw cover clips. 10' 0" uses 9 screw cover clips.
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- with welded pin

Replacement covers available separately



Length		Finish		Number of 1/4" - 20 X 3/4" Self Drilling Screws Per Hinge	Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	645	655					Lbs.	(KG)
6' 8"	(2032)	P	32D	13	20	20	1	16	(7.3)
7' 0"	(2134)	P	32D	13	21	21	1	16	(7.3)
7' 2"	(2184)	P	32D	13	21	21	1	16	(7.3)
8' 0"	(2286)	P	32D	14	23	23	1	18	(8.2)
10' 0"	(3048)	P	32D	17	27	27	1	22	(10)

Machine screws available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Half Mortise Swing Clear with Half-Wrap Edge Guard

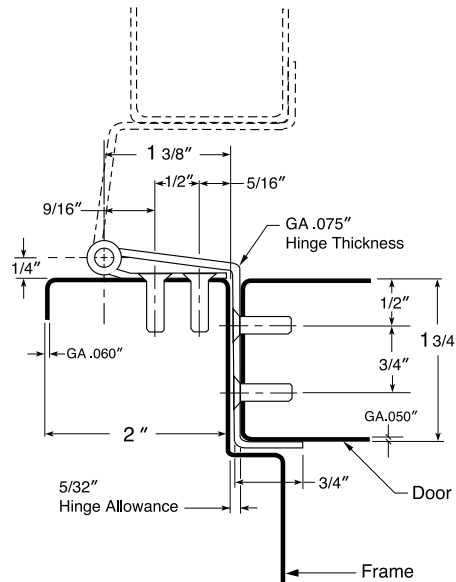


- 646** – (ANSI A85011B & A85022B) – Standard duty steel
- 656** – (ANSI A55011B & A55022B) – Standard duty stainless steel

- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- To meet ADA requirements for barrier-free clearance in a 32" opening, the pivot point of the hinge is located on the face of the frame, allowing the door to swing out of the opening to provide clear passage by wheel chairs and other equipment
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Edge guard protects the inside edge of door, which is most exposed to damage when open
- Fire rated for up to and including 3 hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Steel hinges are prime coated for painting. For other powder coated finishes consult factory
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire

Hinges can be furnished as follows:

- with hospital tips (HT)
- with dutch door prep
- custom length
- with welded pin



Length		Finish		Number of #10 x 1/2" Self Drilling Screws Per Hinge	Number of #10 x 1" Wood Screws Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	646	656				Lbs.	(KG)
6' 8"	(2032)	P	32D	40	20	1	17	(7.7)
7' 0"	(2134)	P	32D	42	21	1	17	(7.7)
7' 2"	(2184)	P	32D	42	21	1	17	(7.7)
8' 0"	(2286)	P	32D	46	23	1	20	(9.1)
10' 0"	(3048)	P	32D	54	27	1	26	(11.8)

Machine screws available separately

Full Surface



647 □ (ANSI A83011B & A83022B) □ Standard duty steel

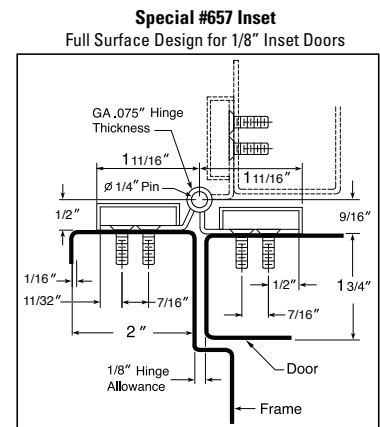
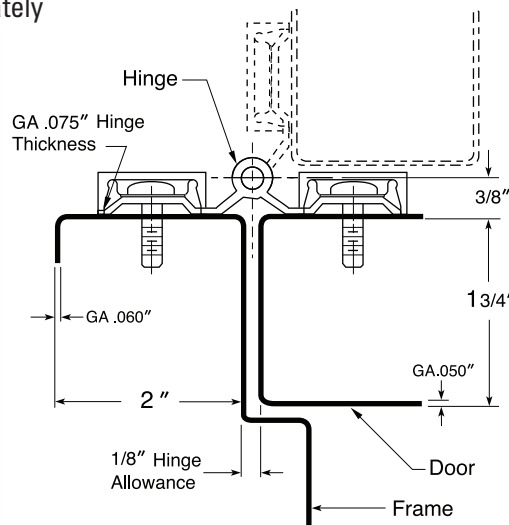
657 □ (ANSI A53011B & A53022B) □ Standard duty stainless steel

- BHMA certified
- Conforms to ANSI/BHMA Standard A156.26–2006, Grade 1-150
- Supports doors up to 600 lbs.
- Leaves mount to flush doors and frames, providing secure attachment for doors and frames that cannot support edge mounting. Special #657 Inset configuration is available for 1/8" Inset Doors.
- Through-bolts (1/4" - 20 x 1 3/4") are recommended for attaching door leaf and required for UL fire-rated doors
- Distributes door weight and stress along the full length of door and frame
- No misaligned pivot points of individual hinges
- Ideal for retrofit applications
- Fire rated for up to and including 3-hours
- LifeSpan® hinge covered by a limited lifetime warranty for the life of the building
- Steel hinges are prime coated for painting. For other powder coated finishes consult factory
- Stainless steel is available in (32) highly polished, and (32D) satin finish. For special powder coated finishes consult factory
- 1/4" diameter pin
- Medical bearings resist dirt collection
- Two stainless steel bearings, top and bottom, prevent door sagging if medical bearings degrade during a fire
- With covers on, hinge will swing approximately 160°

Hinges can be furnished as follows:

- with pivot point moved forward to allow hinge to swing 180°
- with hospital tips (HT)
- with dutch door prep
- custom length
- with welded pin

Replacement covers available separately



Length		Finish		Number of 1/4"-20 X 3/4" Self Drilling Screws Per Hinge	Number of Screw Cover Clips Per Hinge	Quantity Per Carton	Carton Weight	
Feet	(mm)	647	657				Lbs.	(KG)
6' 8"	(2032)	P	32D	26	12	1	14	(6.4)
7' 0"	(2134)	P	32D	32	12	1	14	(6.4)
7' 2"	(2184)	P	32D	32	12	1	14	(6.4)
8' 0"	(2286)	P	32D	36	16	1	16	(7.3)
10' 0"	(3048)	P	32D	40	18	1	20	(9.1)

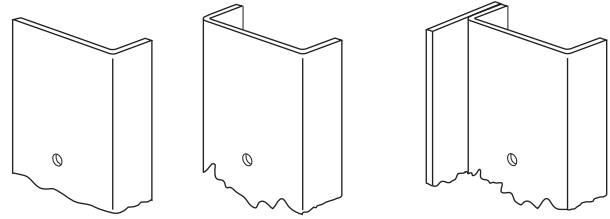
Machine screws available separately. Through-bolts available separately

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

Edge Guards

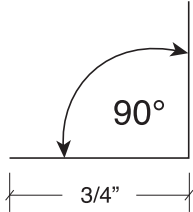


- UL listed
- Protects edges of wood, or metal doors
- 20 gauge, 304 series stainless steel
- Supplied with #6 x 5/8" wood screws



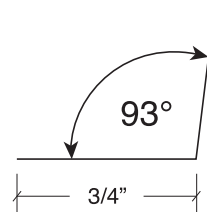
Half Wrap

Protects one edge of door



EG1

For Square Edge Doors

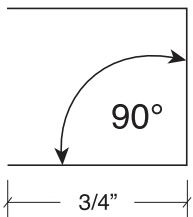


EG1B

For Doors Beveled 1/8" in 2" (3.2 in 51 mm)

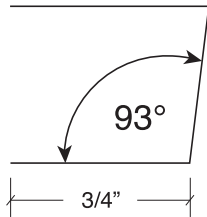
Full Wrap

Protects inside and outside edge of door



EG2

For Square Edge Doors

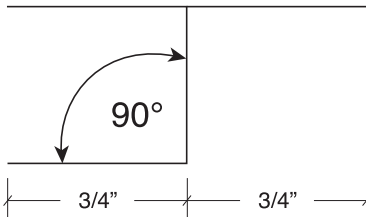


EG2B

For Doors Beveled 1/8" in 2" (3.2 in 51 mm)

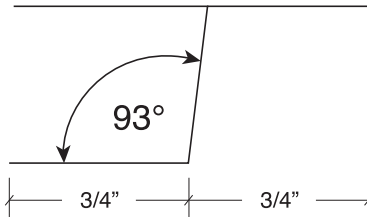
Full Wrap with astragal

Protects inside and outside edges of door, and provides integrated astragal for security on pairs of doors



EG3

For Square Edge Doors

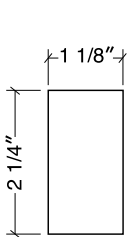


EG3B

For Doors Beveled 1/8" in 2" (3.2 in 51 mm)

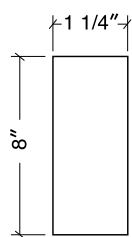
Cutout Options

For options shown, consult factory



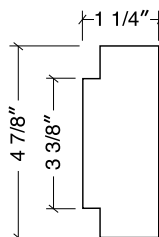
1

161 Latchbolt



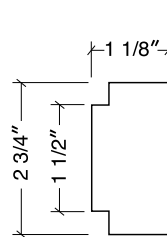
2

86 Mortise Lock



3

ASA Strike



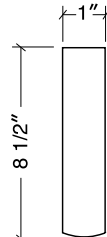
4

161 Strike



5

Manual Flush Bolt



6

Automatic Flush Bolt

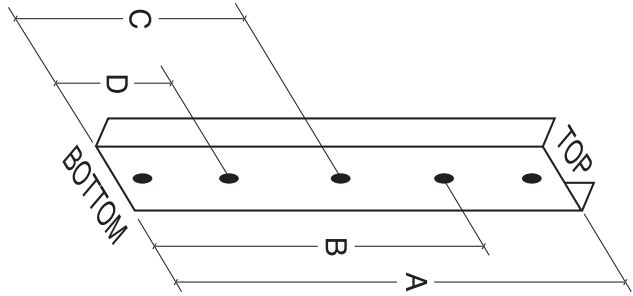
ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

STANLEY

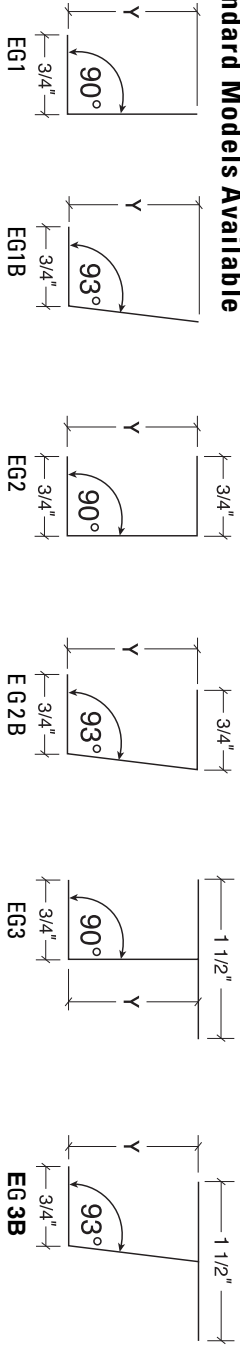
Hardware

EDGE GUARD SPECIAL ORDER FORM

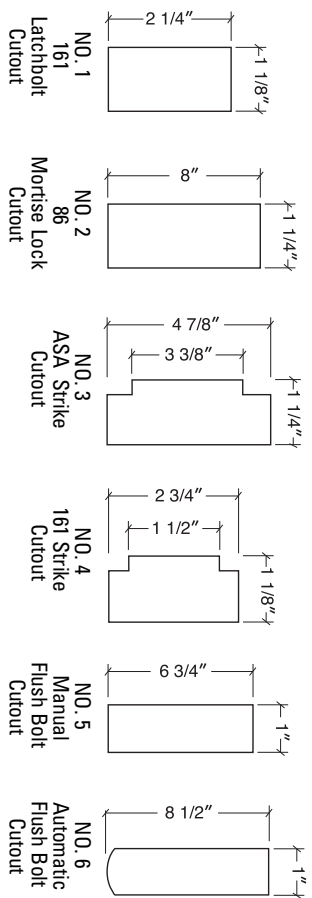
Customer Account Number	For Office Use	Customer P.O. Number	Customer P.O. Date	Requested Ship Date



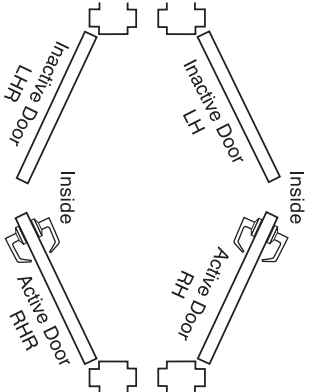
Standard Models Available



Standard Cutouts Available



Handing Information



Line #	Qty.	Model #	Mounting Screws	Hand	Y Door Thickness	A Total Length	Length from bottom of edge guard to the centerline of cutout							
							First cut out No.	B	Second cut out No.	C	Third cut Out No	D		
1														
2														
3														
4														
5														

ARCHITECTURAL STEEL AND STAINLESS STEEL BARREL TYPE CONTINUOUS HINGES

EDP Numbers Standard Duty Models



Steel

CLASS # & DESC.	ACTUAL SIZE	NORMAL SIZE	FINISH	EPD #
641 Full Mortise	79 1/8"	6' 8"	P	16-1060
	83 1/8"	7' 0"	P	16-1062
	85 1/8"	7' 2"	P	16-1063
	95 1/8"	8' 0"	P	16-1064
	119 1/8"	10' 0"	P	16-1065
643 Full Mortise w/Half Wrap Edge Guard	79 1/8"	6' 8"	P	16-1066
	83 1/8"	7' 0"	P	16-1067
	85 1/8"	7' 2"	P	16-1068
	95 1/8"	8' 0"	P	16-1069
	119 1/8"	10' 0"	P	16-1070
644 Half Mortise	79 1/8"	6' 8"	P	16-1072
	83 1/8"	7' 0"	P	16-1073
	85 1/8"	7' 2"	P	84-7269
	95 1/8"	8' 0"	P	16-1075
	119 1/8"	10' 0"	P	16-1076
645 Half Mortise w/Half Wrap Edge Guard	79 1/8"	6' 8"	P	16-1077
	83 1/8"	7' 0"	P	16-1078
	85 1/8"	7' 2"	P	16-1079
	95 1/8"	8' 0"	P	16-1080
	119 1/8"	10' 0"	P	16-1082
646 Steel Swing Clear	79 1/8"	6' 8"	P	16-1083
	83 1/8"	7' 0"	P	16-1084
	85 1/8"	7' 2"	P	16-1085
	95 1/8"	8' 0"	P	16-1086
	119 1/8"	10' 0"	P	16-1087
647 Full Surface	79 1/8"	6' 8"	P	16-1088
	83 1/8"	7' 0"	P	16-1089
	85 1/8"	7' 2"	P	16-1090
	95 1/8"	8' 0"	P	16-1091
	119 1/8"	10' 0"	P	16-1092

Stainless Steel

CLASS # & DESC.	ACTUAL SIZE	NORMAL SIZE	FINISH	EPD #
651 Full Mortise	79 1/8"	6' 8"	32D	16-1093
	83 1/8"	7' 0"	32D	16-1094
	85 1/8"	7' 2"	32D	16-1095
	95 1/8"	8' 0"	32D	16-1096
	119 1/8"	10' 0"	32D	16-1097
652 Full Mortise w/Full Wrap Edge Guard	79 1/8"	6' 8"	32D	16-1098
	83 1/8"	7' 0"	32D	16-1099
	85 1/8"	7' 2"	32D	16-1100
	95 1/8"	8' 0"	32D	16-1107
	119 1/8"	10' 0"	32D	16-1108
653 Full Mortise w/Half Wrap Edge Guard	79 1/8"	6' 8"	32D	16-1109
	83 1/8"	7' 0"	32D	16-1110
	85 1/8"	7' 2"	32D	16-1111
	95 1/8"	8' 0"	32D	16-1112
	119 1/8"	10' 0"	32D	16-1113
654 Half Mortise	79 1/8"	6' 8"	32D	16-1114
	83 1/8"	7' 0"	32D	16-1115
	85 1/8"	7' 2"	32D	16-1116
	95 1/8"	8' 0"	32D	16-1117
	119 1/8"	10' 0"	32D	16-1118
655 Half Mortise w/Half Wrap Edge Guard	79 1/8"	6' 8"	32D	16-1119
	83 1/8"	7' 0"	32D	16-1120
	85 1/8"	7' 2"	32D	16-1121
	95 1/8"	8' 0"	32D	16-1122
	119 1/8"	10' 0"	32D	16-1123
656 Steel Swing Clear	79 1/8"	6' 8"	32D	16-1124
	83 1/8"	7' 0"	32D	16-1125
	85 1/8"	7' 2"	32D	16-1126
	95 1/8"	8' 0"	32D	16-1127
	119 1/8"	10' 0"	32D	16-1128
657 Full Surface	79 1/8"	6' 8"	32D	16-1129
	83 1/8"	7' 0"	32D	16-1130
	85 1/8"	7' 2"	32D	16-1131
	95 1/8"	8' 0"	32D	16-1132
	119 1/8"	10' 0"	32D	16-1133

Heavy Duty Models Stainless Steel

CLASS # & DESC.	ACTUAL SIZE	NORMAL SIZE	FINISH	EPD #
651HD Heavy Duty Full Mortise	79 1/8"	6' 8"	32D	100438
	83 1/8"	7' 0"	32D	100446
	85 1/8"	7' 2"	32D	100453
	95 1/8"	8' 0"	32D	100461
	119 1/8"	10' 0"	32D	100479
652HD Heavy Duty Full Mortise w/Full Wrap Edge Guard	79 1/8"	6' 8"	32D	100487
	83 1/8"	7' 0"	32D	100495
	85 1/8"	7' 2"	32D	100503
	95 1/8"	8' 0"	32D	100511
	119 1/8"	10' 0"	32D	100529
653HD Heavy Duty Full Mortise w/Half Wrap Edge Guard	79 1/8"	6' 8"	32D	100537
	83 1/8"	7' 0"	32D	100545
	85 1/8"	7' 2"	32D	100552
	95 1/8"	8' 0"	32D	100560
	119 1/8"	10' 0"	32D	100578



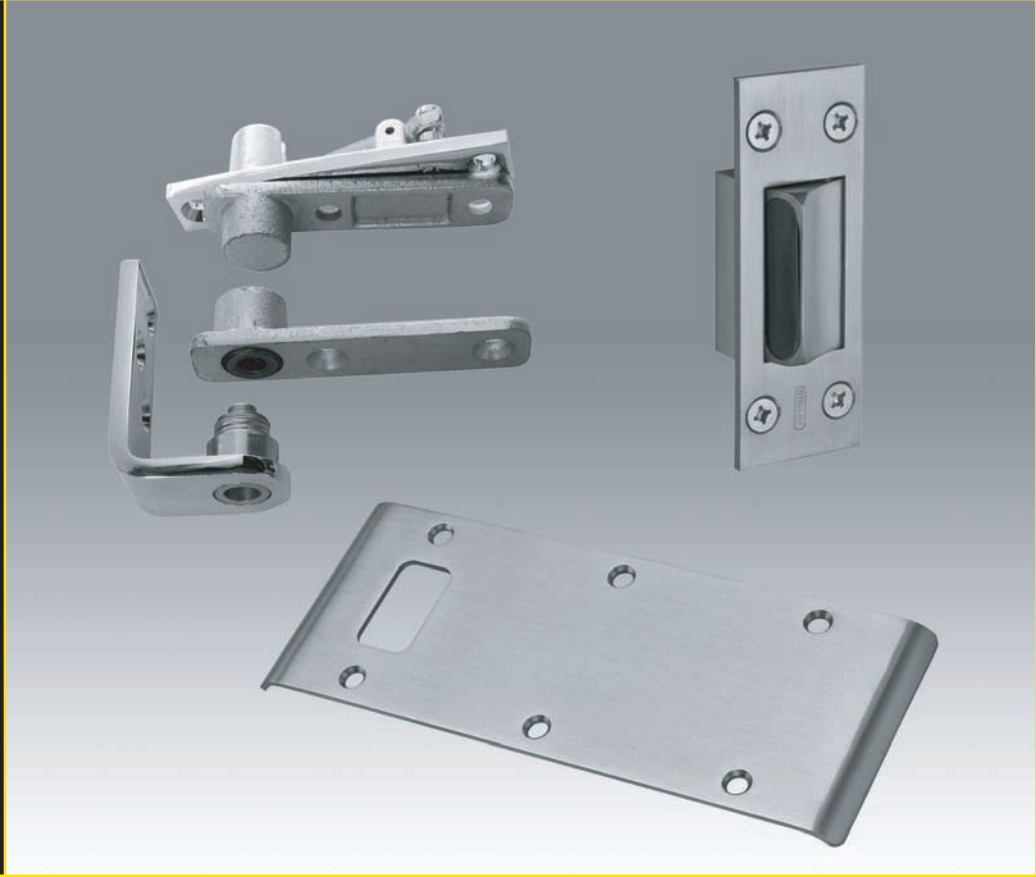
Stanley Security Solutions, Inc.

6161 E. 75th Street Indianapolis, Indiana 46250

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10M R511
SAH013

STANLEY[®]
Security Solutions



EMERGENCY RESCUE

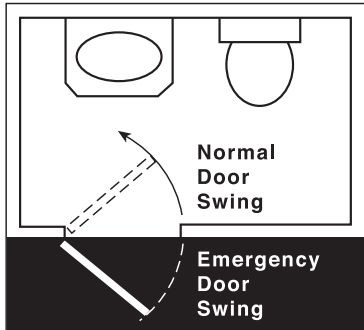
HARDWARE

STANLEY[®]

EMERGENCY RESCUE HARDWARE

For a variety of door applications including patient rooms in hospitals, institutions, and convalescent homes to private baths. Permits doors to normally swing into the bath, thus saving space, yet swing out into the bedroom, incase of emergency when a patient is trapped inside.

Stanley hospital rescue hardware is composed of a Stanley DAP-3 (Double acting pivot), ES-1 (Emergency Door Stop), and DLS-1 or DSL-2 (Double Lipped Strike)



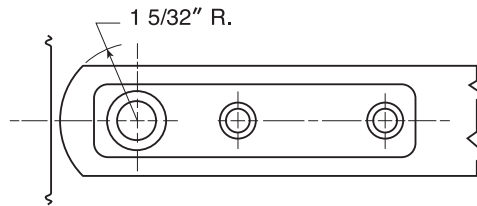
Double Acting Pivot

DAP-3 – (ANSI A2742) – Brass and malleable iron – standard finishes

- Heavy duty pivot assembly for commercial double acting interior doors of average frequency use, weighing up to 135 lbs. (61 Kg) and not exceeding 3' (91mm) in width
- For 1 3/8" (35 mm) and 1 3/4" (44mm) thick doors
- Header plate has a walking beam design to simplify door installation
- Extra heavy 1/4" (6.35mm) thick solid brass frame plates
- Oil impregnated bronze bearing in top door plate
- Smooth acting ball bearing assembly in bottom door plate
- For door undercuts in 1/16" (1.6mm) increments from 3/4" (19mm) to 1" (25mm)
- Bottom bracket is frame mounted and must be floor supported
- The recommended positioning of the door is to inset it 1/8" (3.2 mm) from the bathroom face of the frame

Specifications: Pivot point 1 1/4" (31.8mm) from jamb

Header plate (brass).....	4 7/8" x 7/8" x 1/4" (124mm x 22mm x 6.4mm)
Top door plate (malleable iron)	4 3/8" x 1" x 1/4" (111mm x 25.4mm x 6.4mm)
Bottom jamb bracket (brass)	3" x 1 1/4" x 1/4" (76mm x 32mm x 6.4mm)
Bottom door plate (malleable iron).....	4 3/8" x 1" x 1/4" (111mm x 25.4mm x 6.4mm)



Radius on pivot side of door

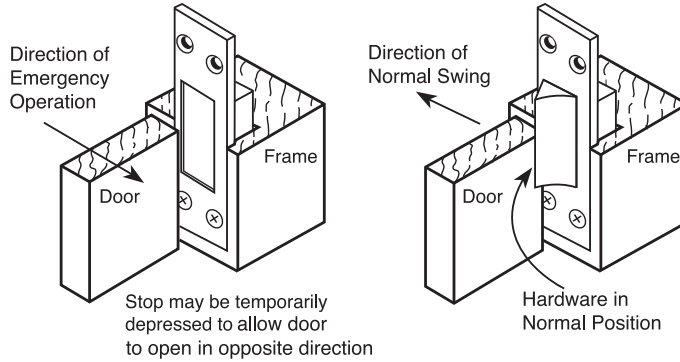
Flat Head Screws/ Per Set	Sets Per Box	Sets Per Case	Weight (Lbs.)	Weight (Kg)
4-14 x 1 1/2 wood screws	1	20	37	17
5-1/4-20 x 1/2 machine screws				

Emergency Door Stop

ES-1 – (ANSI A1882) – Extruded and cast brass – standard finishes

- For converting double acting doors to single acting doors
- Emergency release allows door to swing open in opposite direction to reach ill patients who fall and block normal path of door
- Stop release resets automatically. Spring action stop, with finger-tip release, using pullman-type latch bolt with rubber bumper insert
- Refer to template for door clearance

Specifications: Surface plate – 4 1/2" x 1 5/8" (114mm x 41mm) bolt height 2" (51mm)
 Case – 2 1/8" x 1 5/16" (54mm x 33mm)



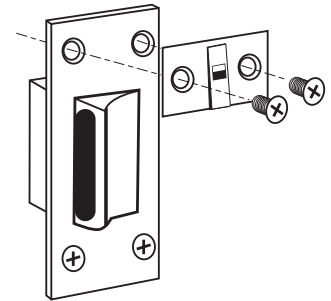
ES-1

Flat Head Screws Per Piece	Pieces Per Box	Pieces Per Case	Weight (Lbs.)	Weight (Kg)
4-12-24 x 1/2 brass machine screws	1	30	17	8

Holdback for ES-1

HB-1 – Steel – standard finishes

- Used with ES-1 to allow doors to become double acting by holding emergency stop in depressed position
- Attaches to surface plate of ES-1
- Packed one in envelope with mounting instructions



Double Lipped Strikes

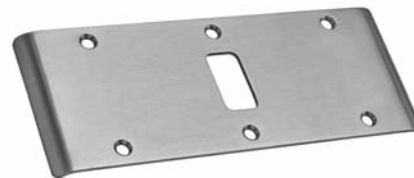
DLS-1 – For 1/8" (3.2mm) Inset hung doors – Brass – standard finishes

DLS-2 – For center hung doors – Brass – standard finishes

- Allows center hung doors to be opened in both directions without damage to frame
- Available for 5 3/4" (146mm) cased openings
- Latch bolt cut out is 1 1/4" x 11/16" (32mm x 17.5mm) ANSI standard for heavy-duty bored type locks. For mortise locks consult factory.
- .093" (2.4mm) material

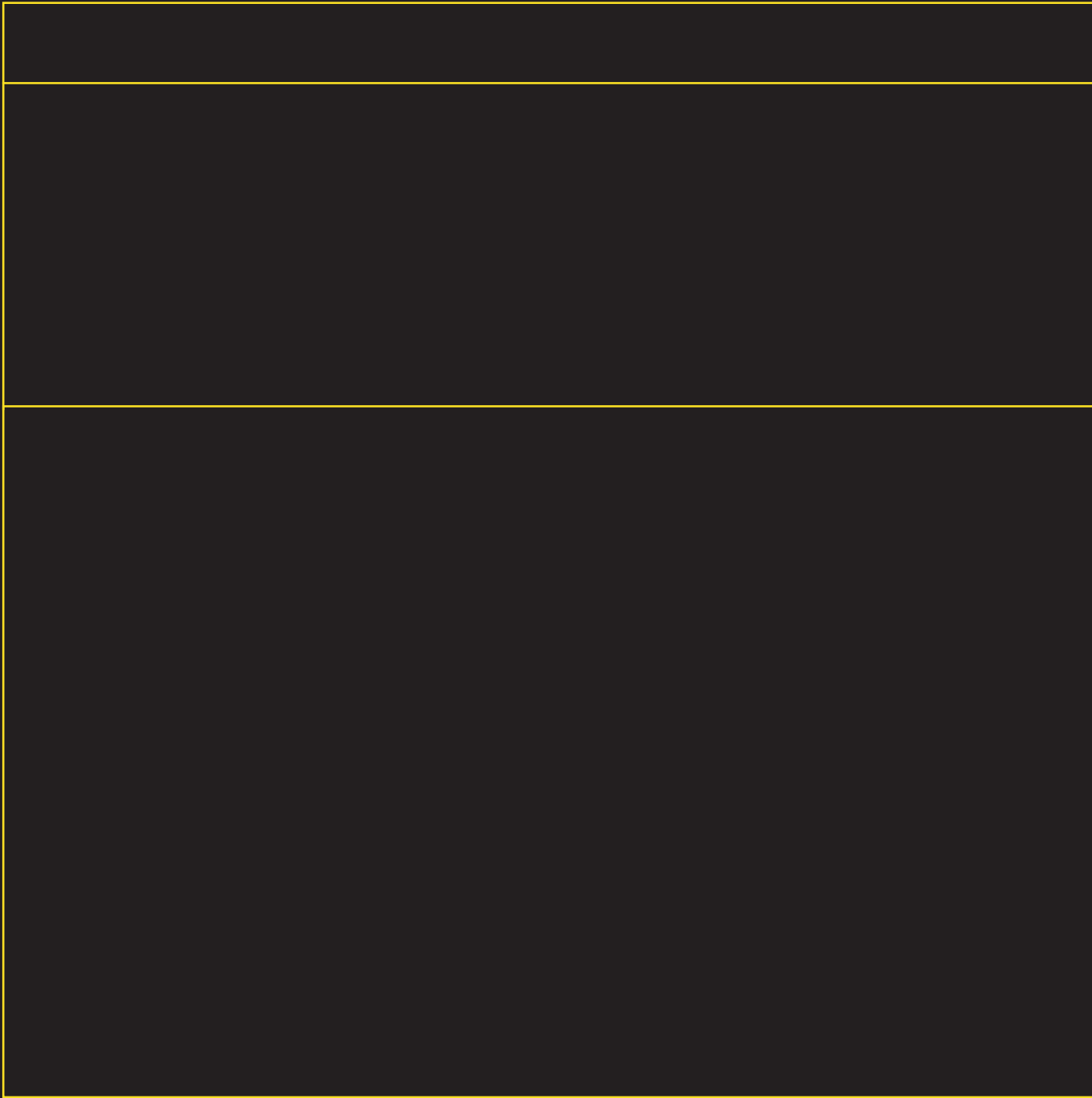


DLS-1



DLS-2

DLS- & DLS-2	Flat Head Screws Per Piece	Pieces Per Box	Pieces Per Case	Weight (Lbs.)	Weight (Kg)
	8-32 x 1/2 brass machine screws	1	50	30	13.6



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STANLEY[®]
Security Solutions



CABINET & WARDROBE

HARDWARE

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 165 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

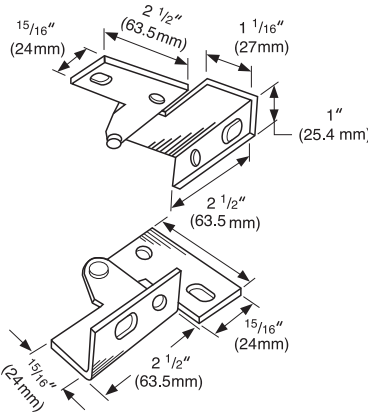
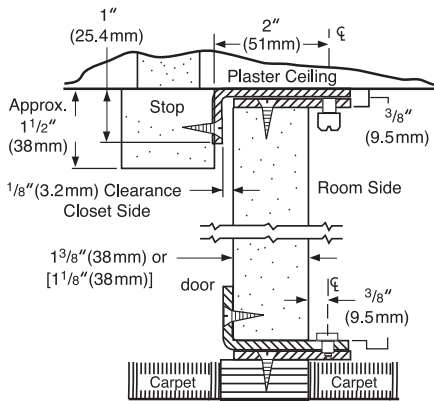
Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com



Wardrobe Pivots

340 – (ANSI A8753) – Standary duty – steel – plated or prime coated finishes

- For flush, recessed or overlay doors 1 1/8" (28.6mm) to 1 3/8" (35mm) thick not exceeding 75 lbs. (34 Kg)
- Only pivot of its type suitable for floor-to-ceiling doors
- Clean appearance, only hinge pivot shows when door is closed
- Door can be opened 180°
- Elongated screw holes make alignment simple
- Separable leaves of the top assembly permit fast installation
- Bushing at the pivot point assure smooth, silent operation



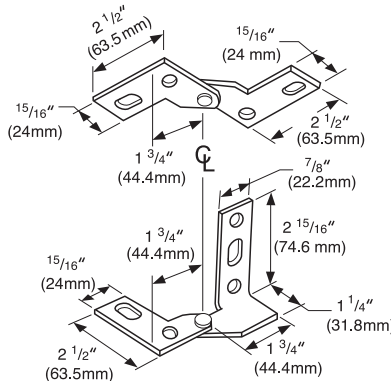
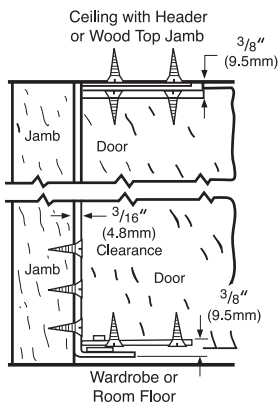
Right hand illustrated

Catalog Number	Gauge Inches	Gauge (mm)	Flat Head Wood Screws/ Per Set	Sets Per Box*	Sets Per Case	Case Weight Lbs.	Case Weight (Kg)
340	.131	(3.3)	8 - 12 x 3/4	1	20	17	(8)

*Set consists of one top hinge and one bottom hinge Handed. Specify right hand or left hand

341 – (ANSI A8773) – Standary duty – steel – plated or prime coated finishes

- For flush, or recessed doors 1 1/8" (28.6mm) to 1 3/8" (35 mm) thick not exceeding 75 lbs. (34 Kg)
- Top header and bottom side frame mounted
- Suitable for floor-to-ceiling doors
- Door can be opened 180°
- Elongated screw holes for easy alignment
- Separable leaves of the bottom assembly for quick, easy installation
- Bushing at the pivot point assure smooth, silent operation
- Edge mortise door leaves – standard practice



Right hand illustrated

Catalog Number	Gauge Inches	Gauge (mm)	Flat Head Wood Screws/ Per Set	Sets Per Box*	Sets Per Case	Case Weight Lbs.	Case Weight (Kg)
341	.131	(3.3)	7 - 12 x 1 2 - 12 x 1 1/4	1	20	14	(6.3)

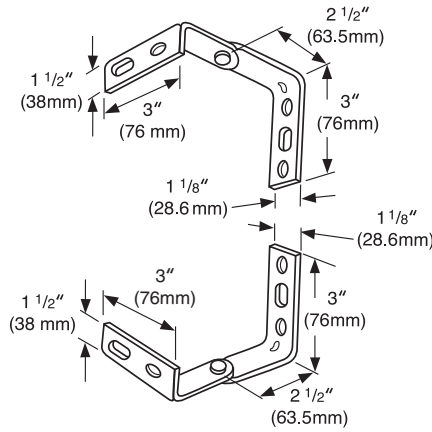
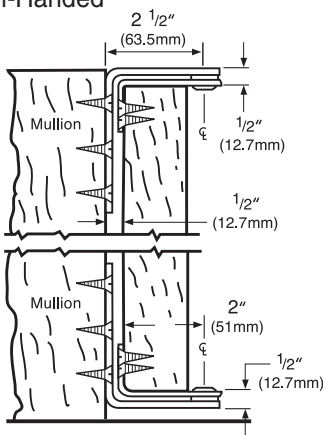
*Set consists of one top hinge and one bottom hinge Handed. Specify right hand or left hand

CABINET AND WARDROBE HARDWARE

Wardrobe Pivots

327 – (ANSI A8782) – Heavy weight – steel – satin chrome (26D) plated

- For overlay doors 1 3/8" (35mm) to 1 3/4" (44mm) thick doors not exceeding 150 lbs. (60 Kg)
- Ideal for wardrobe doors
- Bearings take vertical and lateral loads
- Designed for mullion or face frame mounting
- Doors can be installed floor-to-ceiling
- Screw holes allow for vertical and horizontal adjustment
- Doors can be opened 180°
- Non-Handed

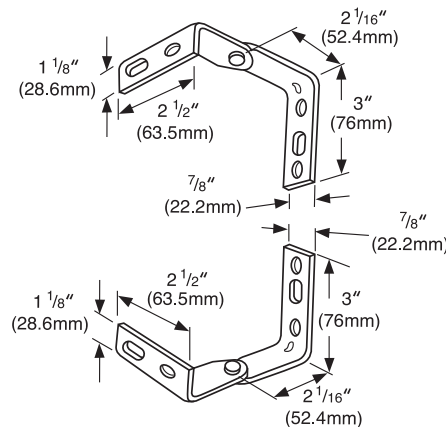
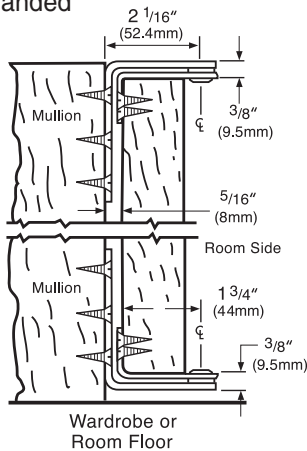


Catalog Number	26D EDP Number	Gauge Inches (mm)	Flat Head Wood Screws/ Per Set	Sets Per Box*	Sets Per Case	Case Weight Lbs. (Kg)
327	35-0043	.200 (5)	10 - 12 x 1 1/4	1	20	34 (15.4)

*For other finishes contact factory.

342 – (ANSI A8783) – Standary duty – steel – plated or prime coated finishes

- For overlay doors 1 1/8" (28.6mm) to 1 3/8" (35mm) thick doors not exceeding 75 lbs. (34 Kg)
- Designed for mullion or face frame mounting
- Suitable for floor-to-ceiling doors
- Doors can be opened 180°
- Elongated screw holes for easy alignment
- Mortised door leaves – Standard practice
- Bushings at the pivot point assure smooth, silent operation
- Non-Handed



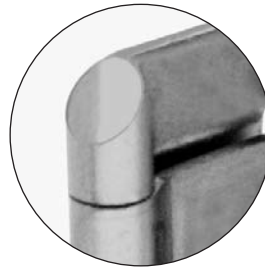
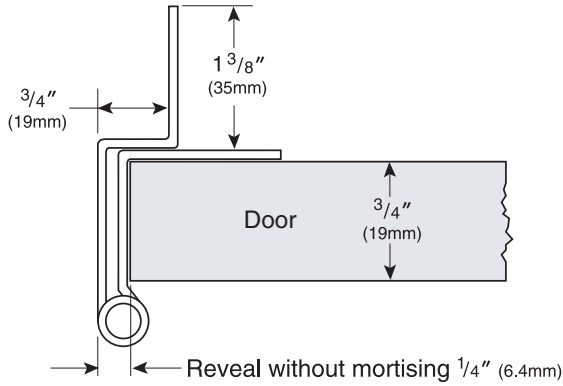
Catalog Number	Gauge Inches (mm)	Flat Head Wood Screws/ Per Set	Sets Per Box*	Sets Per Case	Case Weight Lbs. (Kg)
342	.131 (3.3)	10 - 12 x 1	1	20	18 (8)

Cabinet Hinges

1592 – Button tip – steel – satin chrome (26D) finish

HT1592 – Hospital tip – steel – satin chrome (26D) finish

- Made of heavy .088" gauge steel
- For 3/4" (19mm) thick overlay doors
- Has interleaf design for close door fit
- Elongated screw holes for easy vertical and horizontal alignment



Hospital Tip



Catalog Number	Size Length of Frame Leaf		Flat Head Wood Screws/ Per Pack	Pieces Per Pack	Packs Per Box	Packs Per Case	Case Weight	
	Inches	(mm)					Lbs.	(Kg)
1592 & HT1592	2 3/4	(70)	16 - 8 x 5/8	2	5	50	40	(18)

Cabinet Pulls

4477 – (ANSI B02011) – Solid brass – polished and plated

4478 – (ANSI B02011) – Solid brass – polished and plated

4478 – (ANSI B02011) – Aluminum – satin finish

- For cabinet doors or drawers up to 3/4" (19mm) thick
- Referred to as ribbon pulls
- 7/8" (22.2mm) projection



Catalog Number	Size		Screws Hole Spacing		Machine Screws/ Per Piece	Pieces Per Box	Pieces Per Case	Case Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
4477	4	(102)	3 1/2	(89)	2-8-32 x 1	25	100	14	(7)
4478	3 1/2	(89)	3	(76)	2-8-32 x 1	25	100	12	(6)
4478 (AL)	3 1/2	(89)	3	(76)	2-8-32 x 1	25	100	6	(3)

CABINET AND WARDROBE HARDWARE

Cabinet Pulls

4483 1/2, 4484, 4485 – (ANSI B02011) – solid brass – polished and plated

4483 1/2, 4484 – (ANSI B02011) – aluminum – satin finish

- For cabinet doors and drawers up to 3/4" (19mm) thick
- Very acceptable for Bi-Fold doors
- 1" (25.4mm) finger clearance on all sizes
- 1 5/16" (33.2mm) projection
- 5/16" (7.9mm) diameter
- Referred to as wire pulls



4483 1/2



4484



4485

Catalog Number	Screws Hole Spacing		Machine Screws/ Per Piece	Pieces Per Box	Pieces Per Case	Case Weight	
	Inches	(mm)				Brass Lbs. (KG)	Aluminum Lbs. (Kg)
4483 1/2 and 4483 1/2 Alum.	3 1/2	(89)	2-8-32 x 1	25	100	16 (7)	7 (3)
4484 and 4484 Alum.	4	(102)	2-8-32 x 1	25	100	17 (8)	8 (4)
4485	5	(127)	2-8-32 x 1	25	100	20 (9)	-

Cabinet Knobs

4482 – (ANSI B02131) – solid brass – polished and plated

- For cabinet doors and drawers up to 3/4" (19mm) thick
- Can be used on Bi-Fold doors
- 1 5/16" (33.2mm) projection

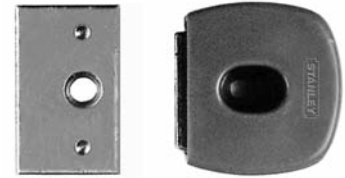


Catalog Number	Size Diameter		Flat Head Wood Screws/ Per Pack	Pieces Per Box	Pieces Per Case	Carton Weight	
	Inches	(mm)				Lbs. (Kg)	(Kg)
4482	1 1/4	(32)	1- 8-32 x 1	25	100	11	(5)

Magnetic Cabinet Catches

CD42 – Plastic – tan

- Single screw mounting speeds installation
- Slotted screw hole in case allows for adjustment
- Floating magnet helps positive contact



EDP Number	Size of Case		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
71-1030	1 1/8 x 1	(28.6 x 25.4)	1 1/8 x 7/8	(28.6 x 22.2)	1– 5 x 5/8 Flat Head 1– 6 x 1/2 Pan Head	5	100	7	(3.2)

CD46 – Aluminum – mill finish (AL)

- For a wide range of cabinet door applications
- Impregnated magnet is shutter resistant
- Slotted screw holes allow for adjustment
- Magnet and pole piece have floating action for positive contact



EDP Number	Size of Case		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
71-1075	2 x 1	(50.8 x 25.4)	1 1/8 x 7/8	(28.6 x 22.2)	2– 6 x 1/2 Pan Head 1– 6 x 1/2 Flat Head	5	100	8	(3.6)

CD41 } – Aluminum – mill finish (AL)
SP41 }

- Slotted screw holes allow for adjustment
- Floating magnet adjusts automatically for positive contact



Class Number	EDP Number	Size of Case		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
		Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
CD41	71-0300	2 x 1	(50.8 x 25.4)	1 1/8 x 7/8	(28.6 x 22.2)	2– 6 x 1/2 Pan Head 1– 5 x 5/8 Flat Head	5	100	12	(5.4)
SP41	81-0160	2 x 1	(50.8 x 25.4)	1 1/8 x 7/8	(28.6 x 22.2)	2– 6 x 1/2 Pan Head 1– 5 x 5/8 Flat Head	5	250	26	(11.8)

CABINET AND WARDROBE HARDWARE

Magnetic Cabinet Catches

CD45 } – Double catch – aluminum – mill finish (AL)
SP45 }

- For pairs of cabinet doors, or full size doors
- Floating magnets pivot to allow full contact with strikes
- Impregnated magnet withstand rugged use
- Slotted screw holes allow for adjustment

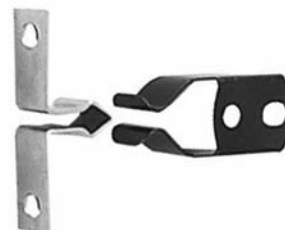


Class Number	EDP Number	Size of Case Inches (mm)	Size of Strike Inches (mm)	Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight Lbs. (Kg)
CD45	80-5180	3 1/4 x 1 3/8 (82.6 x 35)	1 1/8 x 15/16 (28.6 x 17.5)	2– 5 x 5/8 Flat Head 1– 6 x 1/2 Pan Head	5	50	12 (5.4)
SP45	81-0190	3 1/4 x 1 3/8 (82.6 x 35)	1 1/8 x 15/16 (28.6 x 17.5)	2– 5 x 5/8 Flat Head 1– 6 x 1/2 Pan Head	20	100	22 (10)

Friction Cabinet Catches

CD37 – Steel – zinc coated (2C)

- Tempered spring steel insures positive engagement and smooth operation
- Self marking strike for quick installation



EDP Number	Catch Size Inches (mm)	Size of Strike Inches (mm)	Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight Lbs. (Kg)
71-1400	1 3/8 x 9/16 (35 x 14.3)	1 3/8 x 3/8 (35 x 9.5)	4– 6 x 1/2 Pan Head	5	50	5 (2.3)

Spring Catches

CD34– Steel – zinc coated (2C)

- Jaws provide automatic adjustment for normal wood shrinkage
- Elongated holes allow for adjustment
- A ball head screw is provided in addition to the regular strike
- Self marking strike for quick installation



EDP Number	Catch Size Inches (mm)	Size of Strike Inches (mm)	Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight Lbs. (Kg)
71-0100	1 7/16 x 3/4 (36.5 x 19)	1 3/8 x 3/8 (35 x 9.4)	4– 6 x 1/2 Pan Head	5	100	7 (3.2)

Roller Catches

CD35 } – Steel – zinc coated (2C)
SP35 }

- Elongated screw holes allow for adjustment
- Rollers absorb shock and minimize noise
- Self aligning arms work independently assuring easy and positive action
- Self marking strike for quick installation



Class Number	EDP Number	Size of Case		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
		Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
CD35	71-0130	1 1/4 x 3/4	(31.8 x 19)	1 3/8 x 3/8	(35 x 9.5)	4– 6 x 1/2 Flat Head	5	100	7	(3.2)
SP35	81-0130	1 1/4 x 3/4	(31.8 x 19)	1 3/8 x 3/8	(35 x 9.5)	4– 6 x 1/2 Flat Head	5	250	16	(7.3)

Magnetic Cabinet Touch Latch

CD47 – Plastic – brown

- Doors are opened by pushing inward to release contact with magnetic base
- Impregnated magnet withstands rugged use
- Projection from mounting surface 1 1/16" (17.5mm)



EDP Number	Catch Size		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
80-5215	1 5/16 x 1 1/8	(33.3 x 28.6)	1 5/16 x 9/16	(33.3 x 14.3)	4– 5 x 5/8 Pan Head 1– 5 x 5/8 Flat Head	5	50	5	(2.3)

Bullet Catches

CD5357– Steel – bright brass coated (3)

- Catch is concealed when door is closed
- Easy to install



EDP Number	Bore Hole		Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)			Lbs.	(Kg)
80-3850	3/8	(9.5)	5	100	8	(3.6)

CABINET AND WARDROBE HARDWARE

Ball Catches

80-3943 – Brass – bright finish (3)

- Small catch for cabinet or light duty residential doors
- Ball adjusts for door clearance and latch tension
- Diameter and depth of bore: $\frac{9}{16}$ " x 1" (14.3 x 25.4mm)



EDP Number	Size of Face Plate		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
80-3943	$\frac{3}{4}$ x $1\frac{1}{2}$	(19 x 38)	$\frac{3}{4}$ x $1\frac{1}{2}$	(19 x 38)	4– 6 x $\frac{3}{4}$ Flat Head	5	60	10	(4.5)

CD80-3944– Brass – bright finish (3)

- Latches cabinet or light duty residential doors
- Ball adjusts for door clearance and latch tension
- Diameter and depth of bore: $\frac{13}{16}$ " x $1\frac{5}{8}$ " (20.6 x 41.3mm)



EDP Number	Size of Face Plate		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
80-3944	1 x $2\frac{1}{8}$	(25.4 x 54)	$1\frac{3}{8}$ x $2\frac{1}{8}$	(35 x 54)	4– 6 x $\frac{3}{4}$ Flat Head	5	50	10	(4.5)

Roller Latches

SP23 – Steel – bright brass plated (3)

- For use on doors having a minimum thickness of $1\frac{3}{8}$ " (35mm)
- Spring loaded latch holds door closed
- Long-life nylon rollers operate silently with a push/pull action
- Tension is adjustable by turning roller
- Diameter and depth of bore: $\frac{7}{8}$ " x $2\frac{3}{8}$ " (22.2 x 60.3mm)



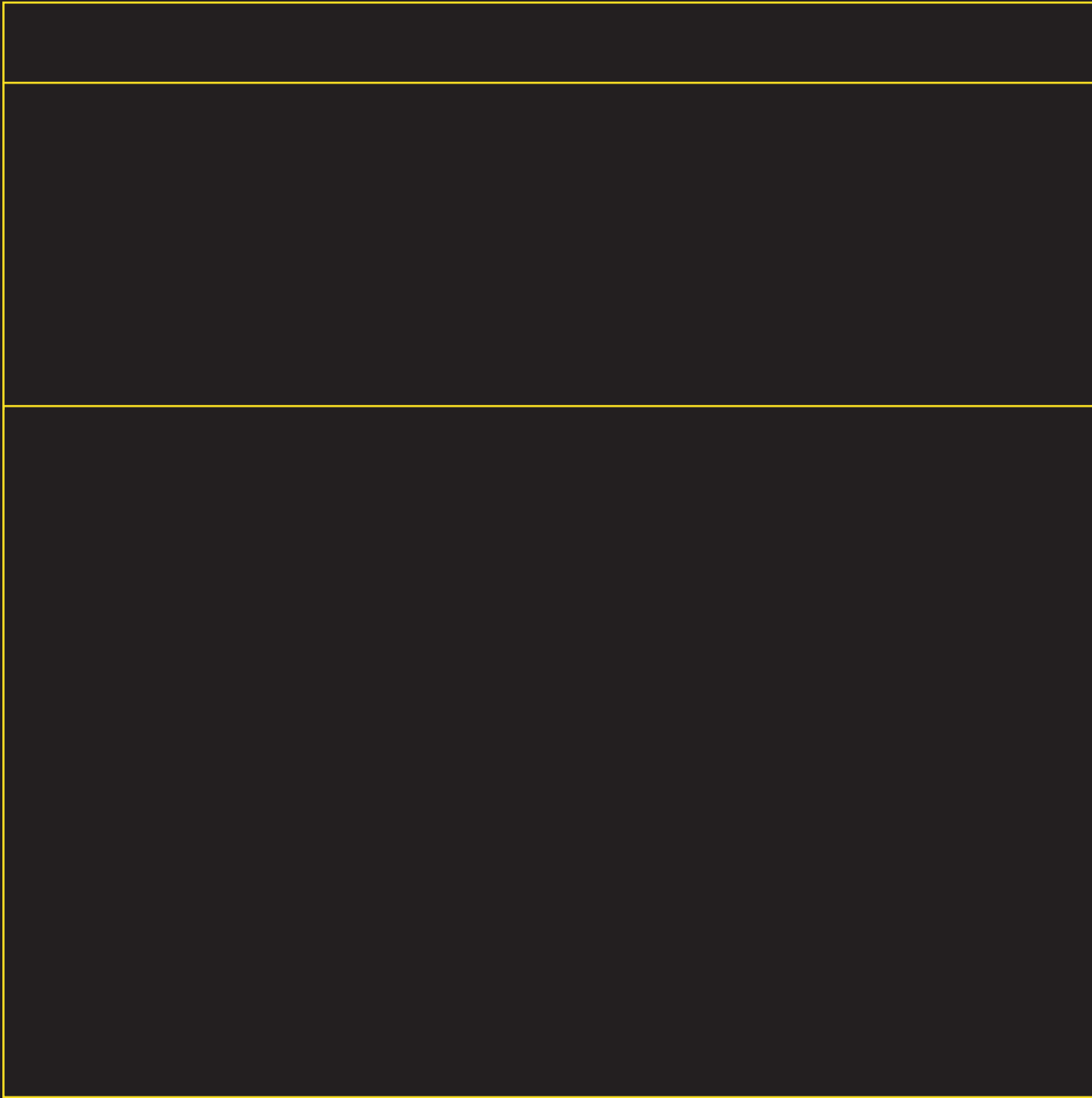
EDP Number	Size of Face Plate		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
	Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
31-0360	$2\frac{1}{4}$ x 1	(57.2 x 25.4)	$2\frac{1}{4}$ x $\frac{9}{16}$	(57.2 x 14.3)	4– 8 x $\frac{5}{8}$ Flat Head	10	100	23	(10.4)

CD26 } – Steel – bright brass plated (3)
SP26 }

- For use on doors having a minimum thickness of $1\frac{1}{8}$ " (28.6mm)
- Spring loaded latch holds door closed
- Long-life nylon rollers operate silently with a push/pull action
- Tension is adjustable by turning roller
- Diameter and depth of bore: $\frac{3}{4}$ " x $1\frac{1}{8}$ " (19 x 28.6mm)



Class Number	EDP Number	Size of Face Plate		Size of Strike		Screws Per Piece	Packs Per Box	Packs Per Carton	Carton Weight	
		Inches	(mm)	Inches	(mm)				Lbs.	(Kg)
CD26	76-2260	$1\frac{3}{4}$ x $1\frac{15}{16}$	(44.5 x 23.8)	$1\frac{3}{4}$ x $1\frac{1}{4}$	(44.5 x 31.8)	3– 5 x $\frac{5}{8}$ Flat Head	10	100	9	(4)
SP26	81-0100	$1\frac{3}{4}$ x $1\frac{15}{16}$	(44.5 x 23.8)	$1\frac{3}{4}$ x $1\frac{1}{4}$	(44.5 x 31.8)	3– 5 x $\frac{5}{8}$ Flat Head	5	250	17	(7.7)



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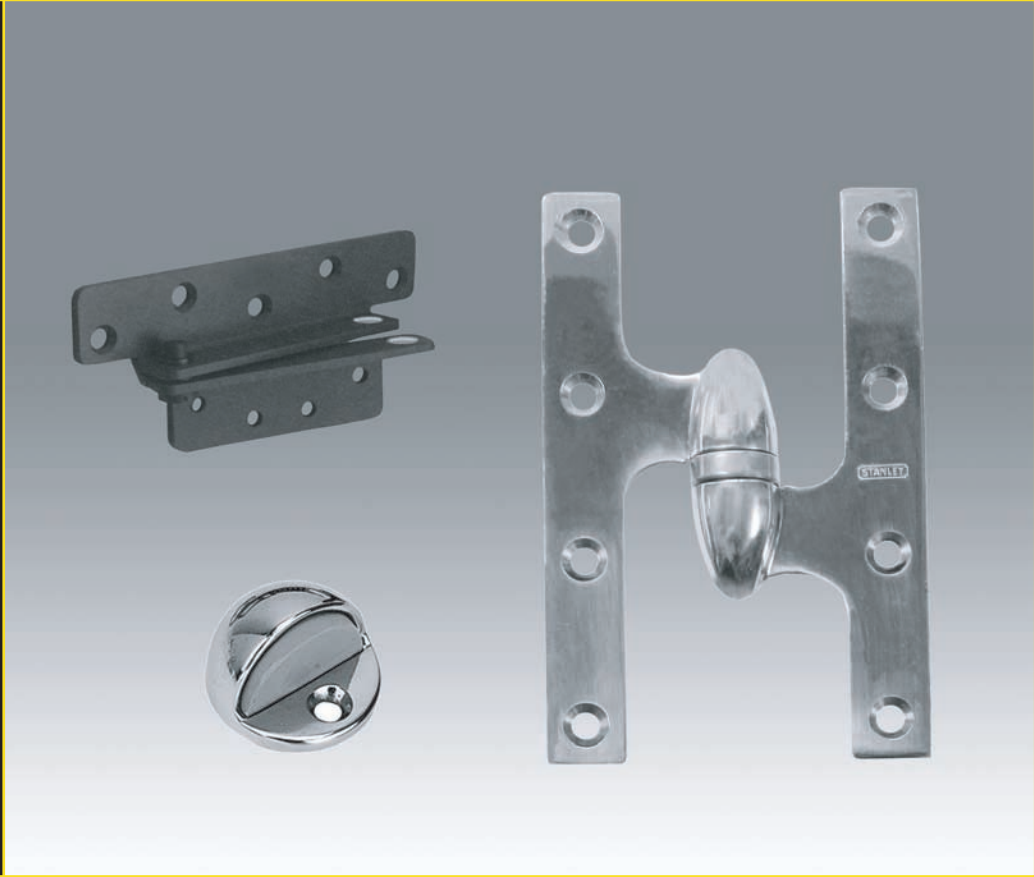
6161 E. 75th Street Indianapolis, Indiana 46250

www.stanleysecuritysolutions.com

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10M 910FP
SAH015

STANLEY[®]
Security Solutions



MISCELLANEOUS

DOOR HARDWARE

STANLEY[®]

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COMPANY HISTORY



**The Stanley Works
New Britain, CT in 1843**

As a young man in 1843, Frederick T. Stanley founded The Stanley Works – a small company located in New Britain, Connecticut that manufactured hinges, bolts and other door hardware in a one-story wooden building.

Mr. Stanley’s vision was to create a hardware company with unsurpassed customer service, product innovation and integrity – and to offer products that would become the first choice among professionals around the world.

With the early success of this mission and an increasing demand for his high-quality goods, Mr. Stanley began exporting his products in the 1870s.

Today, Stanley is a global organization supplying hardware and tools for the architectural, consumer, industrial and residential markets worldwide. Utilizing state-of-the-art research, manufacturing and quality-control capabilities, Stanley continues to deliver the innovative, high quality products that have made the Stanley name synonymous with the highest craftsmanship and dependability for more than 165 years.

To our valued customers, we appreciate your loyalty over the years and proudly present our Architectural Hardware offering.

Commercial Customer Service: 1-800-337-4393
www.stanleyhardware.com

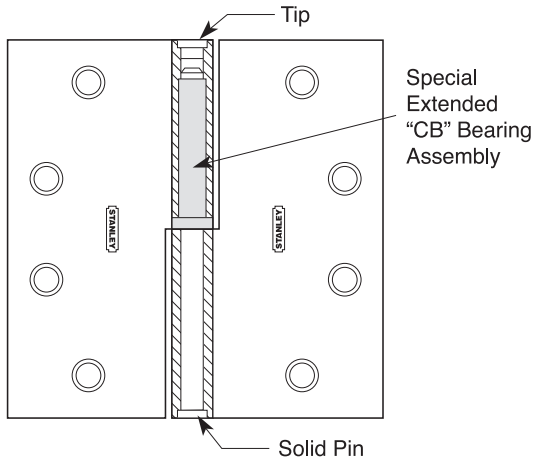
Heavy Weight Two Knuckle Full Mortise Concealed Bearing **LifeSpan**®

CB0701- (ANSI A8111) – Steel – polished and plated or phosphated and prime coated for painting

CB0761- (32) – (ANSI A5111) – Stainless Steel – highly polished

CB0761- (32D) – (ANSI A5111) – Stainless Steel – satin finish

- For heavy doors, or doors where high frequency is expected
- Concealed bearing, takes both vertical and lateral loads
- Secure: Door cannot be lifted off when in closed position
- All hinges have template screw holes location for use on either wood or hollow metal doors and frames
- Loose joint – specify hand



Class Numbers	Finish	EDP Number	Size Open		Gauge of Metal		Number of Flat Head Machine Screws Per Piece	Quantity		Carton Weight	
			Inches	(mm)	Inches	(mm)		Per Box	Per Carton	Lbs.	(KG)
CB0701-RH	P	83-4358	4 1/2"	114	.180	(4.6)	8 - 12 - 24 x 1/2	3 EA.	30 EA.	43	(19.5)
CB0701-LH	P	83-4382	4 1/2"	114	.180	(4.6)	8 - 12 - 24 x 1/2	3 EA.	30 EA.	43	(19.5)
CB0761-RH	32	83-4366	4 1/2"	114	.180	(4.6)	8 - 12 - 24 x 1/2	3 EA.	30 EA.	43	(19.5)
CB0761-LH	32	83-4390	4 1/2"	114	.180	(4.6)	8 - 12 - 24 x 1/2	3 EA.	30 EA.	43	(19.5)
CB0761-RH	32D	83-4374	4 1/2"	114	.180	(4.6)	8 - 12 - 24 x 1/2	3 EA.	30 EA.	43	(19.5)
CB0761-LH	32D	83-4408	4 1/2"	114	.180	(4.6)	8 - 12 - 24 x 1/2	3 EA.	30 EA.	43	(19.5)

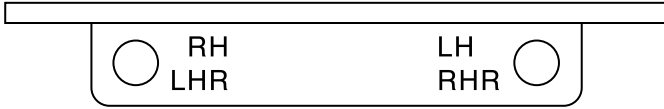
Available in other architectural hardware finishes – consult factory

MISCELLANEOUS DOOR HARDWARE

Shock Arrestor

225R – Steel – phosphated and prime coated for painting or polished and plated

- Protects against loosened screws and bent hinge leaves
- For doors 1 3/4" (44 mm) thick with either standard or heavy weight hinges 4 1/2" (114 mm) wide
- Designed to fit doors inset 1/8" (3.2 mm). For flush applications place a 1/8" (3.2 mm) shim underneath the frame plate.
- Brass pintle and large screws resist maximum shock loads
- Surface applied
- For square or beveled edge doors



FRAME PLATE

Design allows for quick and easy handing in the field



Gauge	Number of 1/4 – 20 x 1" Flat Head Machine Screws Per Set	Number of 1/4 – 20 Molly Jack Nuts Per Set	Number of 1/4 – 20 Hex Nuts Per Set	Quantity		Carton Weight	
				Per Box	Per Carton	Lbs.	(KG)
.187	9	5	4	1	10	20	(9.1)

Olive Knuckle Hinge

BB95 – (ANSI A1612) – Forged brass – polished and finished

- For interior or exterior doors that demand hinges with the smart clean look
- Can be used on hollow metal or wood doors and frames
- Ideal for use in offices, restaurants, recreational building and residences
- Designed in particular for 1 3/8" (35 mm) to 1 3/4" (44 mm) average frequency doors
- Equipped with an anti-friction bearing assembly
- Template hole locations
- Handed – when ordering specify right or left hand
- Edge of hinge closest to the barrel should be 1/4" (6.4 mm) from face of door, regardless of door thickness



Size Open		Gauge of Metal		Width of Leaves		Flat Head Screws / Per Piece		Quantity		Case Weight	
Inches	(mm)	Inches	(mm)	Inches	(mm)	Machine	Wood	Per Box	Per Carton	Lbs.	(KG)
6 x 3 7/8	(152 x 98)	.203	(5.2)	1 3/16	(20.6)	8 - 12-24 x 1/2	4 - 12 x 1 1/4	3 EA.	30 EA.	35	(16)

MISCELLANEOUS DOOR HARDWARE

Heavy Gauge Plain Bearing Full Surface

850 – Steel – Unfinished (PS)

- No hole construction featuring heavy gauge steel and fast spun pins
- Not swaged for full surface weld on applications
- Hinge widths are approximately 1/8" less than normal sizes shown
- All sizes have five knuckles
- Plain steel
- Bulk packed



Fast spun pin

Catalog Number	PS/EDP Number	Nominal Size		Gauge of Metal	Pin Diameter	Pieces Per Box	Pieces Per Case	Case Weight	
		Inches	(mm)					Lbs.	(Kg)
850	12 7400	2" x 2"	(51x51)	.099	.204	10	200	33	(15)
850	12 7600	2 1/2" x 2 1/2"	(63x63)	.110	.231	10	200	57	(26)
850	12 7850	3" x 3"	(76x76)	.110	.282	2	40	18	(8.2)
850	12 8100	3 1/2" x 3 1/2"	(89x89)	.120	.273	2	50	30	(13.6)
850	12 8350	4" x 4"	(102x102)	.139	.270	2	40	35	(16)
850	12 8450	4 1/2" x 4 1/2"	(114x114)	.150	.292	2	40	46	(21)
850	12 8550	5" x 5"	(127x127)	.165	.309	2	40	60	(27.2)
850	12 8750	6" x 6"	(152x152)	.187	.328	2	40	48	(22)

Concave Wall Door Stop

- CD57-5411** – (ANSI LO2251) – Brass – white finish
- CD75-0108** – (ANSI LO2251) – Brass – 10BL
- CD75-0161** – (ANSI LO2251) – Brass – 26
- CD75-0163** – (ANSI LO2251) – Brass – 14
- CD75-0164** – (ANSI LO2251) – Brass – 15
- CD80-4010** – (ANSI LO2251) – Brass – 3
- CD80-4011** – (ANSI LO2251) – Stainless steel – 32D



- Durable polyisoprene gray rubber
- Use on walls to help prevent damage

Class Numbers	Base Diameter		Installed Height		Screws and Plastic Anchor Per Piece	Quantity		Carton Weight	
	Inches	(mm)	Inches	(mm)		Per Box	Per Carton	Lbs.	(KG)
CD57-5411	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	50	13	(5.9)
CD75-0108	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	5	1.6	(.7)
CD75-0161	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	5	1.6	(.7)
CD75-0163	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	5	1.6	(.7)
CD75-0164	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	5	1.6	(.7)
CD80-4010	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	60	20	(9)
CD80-4011	2 1/4	(57)	1 5/16	(33.3)	1 - 10 x 1 1/8 Oval Head	5	50	12	(5.4)

MISCELLANEOUS DOOR HARDWARE

High-Rise Floor Door Stop

- CD75-0058** – (ANSI LO2161) – Brass – 26
- CD75-0060** – (ANSI LO2161) – Brass – 14
- CD75-0061** – (ANSI LO2161) – Brass – 15
- CD75-0106** – (ANSI LO2161) – Brass – 10BL
- CD80-4115** – (ANSI LO2161) – Brass – 3



- Positive stopping action provided by non-marring bumper
- Designed for door undercut at point of installation $5/8'' - 1\ 1/16''$ (16 – 27 mm)

Class Numbers	Base Diameter		Installed Height		Screws and Plastic Anchor Per Piece	Quantity		Carton Weight	
	Inches	(mm)	Inches	(mm)		Per Box	Per Carton	Lbs.	(KG)
CD75-0058	1 ¹³ / ₁₆	(46)	1 ¹ / ₄	(31.8)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.4	(.64)
CD75-0060	1 ¹³ / ₁₆	(46)	1 ¹ / ₄	(31.8)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.4	(.64)
CD75-0061	1 ¹³ / ₁₆	(46)	1 ¹ / ₄	(31.8)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.4	(.64)
CD75-0106	1 ¹³ / ₁₆	(46)	1 ¹ / ₄	(31.8)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.4	(.64)
CD80-4115	1 ¹³ / ₁₆	(46)	1 ¹ / ₄	(31.8)	1- 14 x 1 ¹ / ₄ Flat Head	5	50	13	(5.9)

Lo-Rise Floor Door Stop

- CD75-0051** – (ANSI LO2141) – Brass – 26
- CD75-0053** – (ANSI LO2141) – Brass – 14
- CD75-0054** – (ANSI LO2141) – Brass – 15
- CD75-0105** – (ANSI LO2141) – Brass – 10BL
- CD80-4110** – (ANSI LO2141) – Brass – 3



- Positive stopping action provided by non-marring bumper
- Designed for door undercut at point of installation $3/16'' - 5/8''$ (5 – 16 mm)

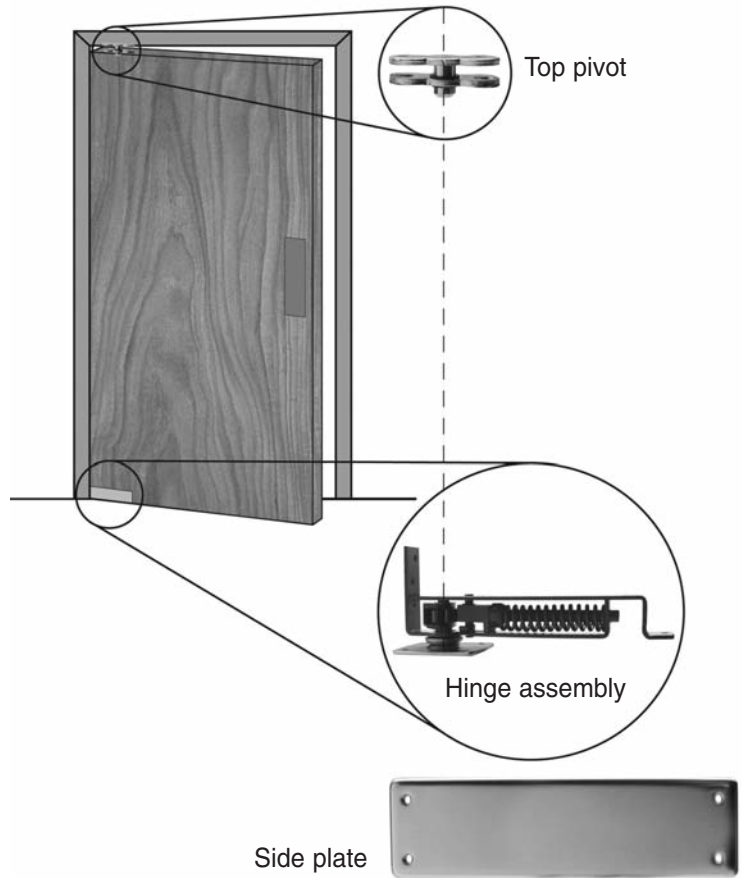
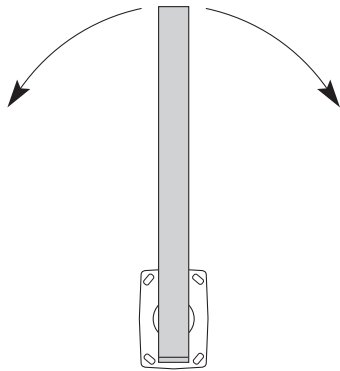
Class Numbers	Base Diameter		Installed Height		Screws and Plastic Anchor Per Piece	Quantity		Carton Weight	
	Inches	(mm)	Inches	(mm)		Per Box	Per Carton	Lbs.	(KG)
CD75-0051	1 ⁷ / ₈	(47.6)	1	(25.4)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.3	(.6)
CD75-0053	1 ⁷ / ₈	(47.6)	1	(25.4)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.3	(.6)
CD75-0054	1 ⁷ / ₈	(47.6)	1	(25.4)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.3	(.6)
CD75-0105	1 ⁷ / ₈	(47.6)	1	(25.4)	1- 14 x 1 ¹ / ₄ Flat Head	5	5	1.3	(.6)
CD80-4110	1 ⁷ / ₈	(47.6)	1	(25.4)	1- 14 x 1 ¹ / ₄ Flat Head	5	50	10	(4.5)

MISCELLANEOUS DOOR HARDWARE

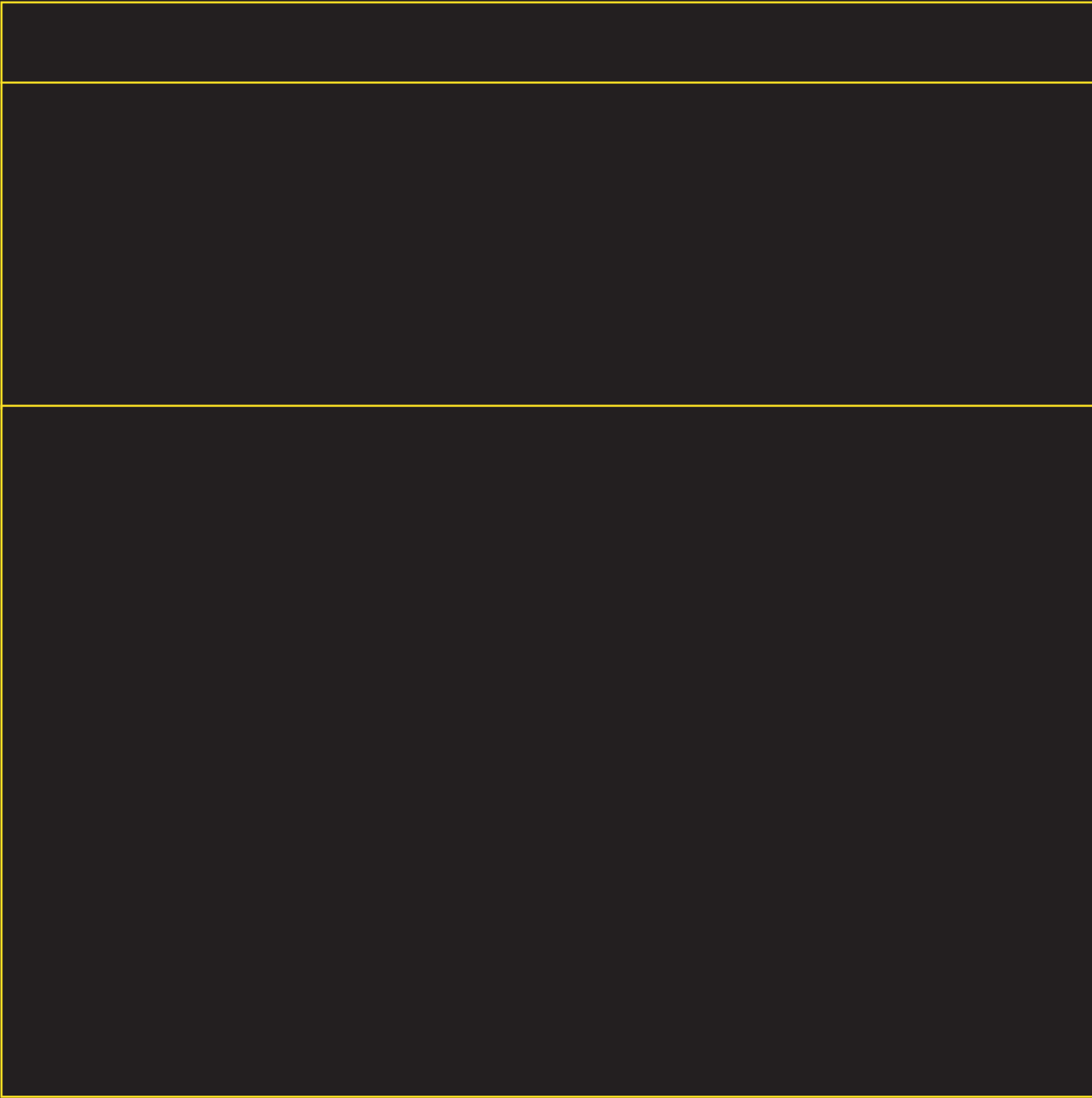
Residential Grade Double Acting Floor Hinge

BB159 – (ANSI K82183) – Steel – satin brass finish (US4)

- For low frequency residential double acting wood doors 1 3/8" to 1 3/4" thick weighing up to 75 lbs.
- Holds door open at approximately a 90° angle on either side of opening
- Ball bearing located at the top of the hinge carries the weight of door and takes the thrust of spring
- Hardened steel roller, working with the cam, insures easy and noiseless operation
- Spring tension is fully adjustable
- Set consists of top pivot, horizontal floor hinge, decorative plates, fasteners, and installation instructions.



Catalog Number	US4/EDP Number	Sets Per Box	Sets Per Case	Case Weight (lbs.)
BB159	38 4310	1	10	34



For more information on Stanley Security Solutions' products, services, and office locations visit our web site at www.stanleysecuritysolutions.com

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STANLEY[®]
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SLIDING & FOLDING DOOR HARDWARE

COMMERCIAL HARDWARE

STANLEY[®]

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PD150N		19
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**The Stanley Works
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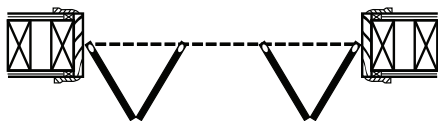
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Nomenclature: Application + Weight + Component = Class Number

Application	Weights	
BF = BiFold	30 lbs	14 Kg
	50 lbs	23 Kg
	125 lbs	57 K
BP = ByPass	60 lbs	27 Kg
	150 lbs	68 Kg
	250 lbs	113 Kg
PD = Pocket Door	75 lbs	34 Kg
	150 lbs	68 Kg
PDF = Pocket Door Frame	150 lbs	68 Kg
	250 lbs	113 Kg

Components
Track = 01-09
Pivot Brackets = 10-19
Snuggers = 20-29
Pivots = 30-39
Hangers = 40-49
Pulls = 60-69
Bottom Guides = 70-79
Jamb Brackets = 80-89
Bottom Guide Track = 90-99

Example: BF (Bi-Fold) – 125 (125 lbs.) – 41 (Hanger)

Metric Conversions

1 in. = 25.4 mm 1 mm = .039 in.

Inches	Millimeters	Inches	Millimeters
1-3/4	44	1-3/4	44
1/8	3	2	51
3/16	5	2-3/4	70
1/4	6	3-1/2	89
5/16	8	12	305
3/8	10	18	457
7/16	11	24	610
1/2	13	30	762
9/16	15	36	914
5/8	16	48	1219
11/16	18	60	1524
3/4	19	72	1829
13/16	21	84	2134
7/8	22	96	2438
15/16	24	120	3048
1	25	144	3658
1-3/8	35	192	4877

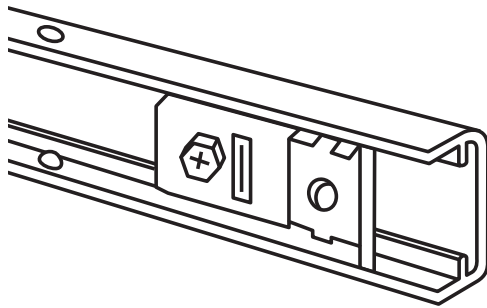
Average Door Weight Chart

Door Thickness	Inches		mm		Inches		mm	
	13/8"	35	13/4"	44	2"	51		
	lbs/ft ²	kg/m ²	lbs/ft ²	kg/m ²	lbs/ft ²	kg/m ²		
Hollow Core	2	9.8	2 1/2	12.2	–	–		
Solid Core	3 1/2	17	4 1/2	22	5 1/4	25.6		
Pine (White)	3	14.6	3 1/2	17	4	19.5		
Oak	5	24.4	7	34.2	8	39		
Ash	4	19.5	5	24.4	6	29.3		
Fir	3	14.6	3 1/2	17	4	19.5		
Birch	4 1/4	20.8	5 1/2	26.9	6 1/4	30.5		
Mahogany	3 1/2	17	4 1/2	22	5 1/4	25.6		



Track with Pivot Bracket

Track No.	Number of Panels	Length	Finish	Case Qty.	Case Weight	EDP Number
BF30-01-24	2	23 3/4"	WHITE	25 EA.	14 LBS	52 2004 001
BF30-01-28	2	27 3/4"	WHITE	25 EA.	16 LBS	52 2024 001
BF30-01-30	2	29 3/4"	WHITE	25 EA.	17 LBS	52 2032 001
BF30-01-32	2	31 3/4"	WHITE	25 EA.	18 LBS	52 2052 001
BF30-01-36	2	35 3/4"	WHITE	25 EA.	19 LBS	52 2060 001
BF30-01-36	4	35 3/4"	WHITE	25 EA.	22 LBS	52 2064 001
BF30-01-48	4	47 3/4"	WHITE	25 EA.	28 LBS	52 2068 001
BF30-01-60	4	59 3/4"	WHITE	25 EA.	34 LBS	52 2092 001
BF30-01-72	4	71 3/4"	WHITE	25 EA.	40 LBS	52 2120 001
BF30-01-84	4	83 3/4"	WHITE	25 EA.	48 LBS	52 2144 001
BF30-01-96	4	95 3/4"	WHITE	25 EA.	54 LBS	52 2148 001

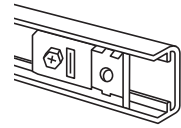


DIMPLED STEEL TRACK

Track No.	Number of Panels	Length	Finish	Case Qty.	Case Weight	EDP Number
BF30-02-24	2	23 3/4"	WHITE	25 EA.	14 LBS	52 2284 001
BF30-02-30	2	29 3/4"	WHITE	25 EA.	17 LBS	52 2300 001
BF30-02-36	2	35 3/4"	WHITE	25 EA.	19 LBS	52 2316 001
BF30-02-48	4	47 3/4"	WHITE	25 EA.	28 LBS	52 2320 001
BF30-02-60	4	59 3/4"	WHITE	25 EA.	34 LBS	52 2332 001
BF30-02-72	4	71 3/4"	WHITE	25 EA.	40 LBS	52 2344 001

Packaged Set Components

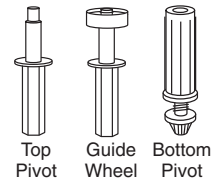
Steel Track EDP No.
BF30-01-XX **



Snugger Case Qty. EDP No.
BF30-22- 2Door 200 ea. 52 2240 001
BF30-24- 4Door 100 ea. 52 2244 001

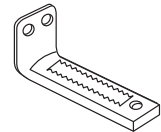


Top Guide Pivot/Guide Wheel – 7/16" Dia. Body
BF50-34-Top Pivot 200 ea. 52 2272 001
BF30-35-Guide Wheel 200 ea. 52 2280 001
BF30-36-Bottom Pivot 200 ea. 52 3248 001



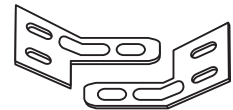
Jamb Bracket
BF30-81 200 pr. 52 4200 001

Easy horizontal adjustment



Aligners
BF50-72 100 pr. 52 2224 001

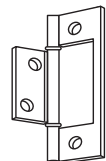
For use in four door installations



Knobs
BF50-62-Wood 100 pr. 52 1280 001



Hinges Length Case Qty. EDP No.
221-3-Offset Holes 3" 300 pr. 52 1032 001
 Brass tone zinc finish



See next page for accessories

BiFold Hardware

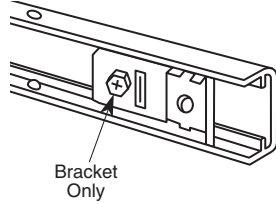


BF30

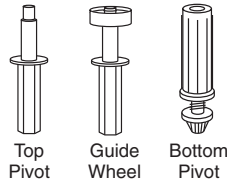
Hardware

Accessories & Options

Pivot Bracket	Case Qty.	EDP No.
BF30-10	200 ea.	52 2236 001



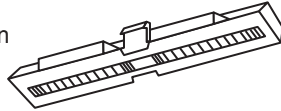
Top Guide Pivot/Guide Wheel – 3/8" Dia. Body		
BF30-31-Top Pivot	200 ea.	52 2612 001
BF30-32-Guide Wheel	200 ea.	52 2620 001
BF30-33-Bottom Pivot	200 ea.	52 4212 001



Slide Guides

BF30-25	200 ea.	52 2372 001
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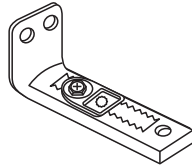
Cushions door when opening, tensions doors in closed position



Jamb Bracket

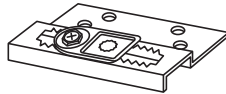
BF50-81	200 ea.	52 2252 001
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3/4" flat head screws
Easy horizontal adjustment



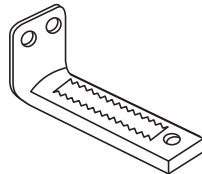
BF50-83	200 ea.	52 2264 001
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Floor Bracket for slab floor installations



BF50-84	200 ea.	52 3236 001
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3/4" flat head screws
Heavy Duty Jamb Bracket for mounting above floor



Knob

BF50-65 - Brass	400 pr.	52 1244 001
BF50-61 - Plastic	100 pr.	52 1280 001



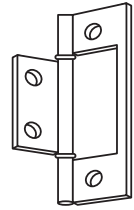
Brass



Plastic

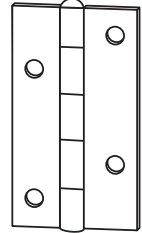
Hinges	Length	Case Qty.	EDP No.
220-3LS	3"	300 pr.	52 1016 001

Non-mortise, In-line holes, no screws



224- 2 1/2" x 1 5/8"	300 pr.	52 1052 001
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Satin Brass Finish
Flatback Hinge, no screws

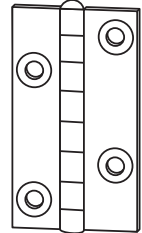


234- 2 1/2" x 1 5/8"	300 pr.	52 1076 001
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Bright Zinc Finish Flatback
Hinge, no screws

224RC- 2 1/2" x 1 5/8"	300 pr.	52 1053 001
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Satin Brass Finish Flatback
Hinge with raised countersinks for
Medium Density Fiberboard (MDF)
panels no screws



Screws	Case	EDP No.
220-121SC	600 sets	52 1024 001

Brass Tone Finish
Drill Point Screws for 220 hinge
#2 Phillips drive
#6 x 7/8" flat head



221-SC	600 sets	52 1040 001
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Brass Tone Finish
Screws for 220-3/221-3 hinge
#2 Phillips drive
#6 x 7/8" flat head



214-121SC	300 sets	52 1004 001
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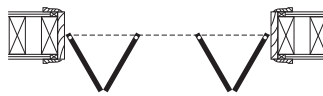
Brass Tone Finish
Self drilling screws for 224/234
hinge #2 Phillips drive
#8 x 5/8" pan head



214-SC	300 sets	52 1000 001
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Brass Tone Finish
Screws for 224/234 hinge
#2 Phillips drive
#8 x 5/8" pan head





**When Ordering, Please Specify EDP Number
BF30 Bifolding Hardware Bagsets**

EPD No. Bagset Catalog No.	52 2007 001 2453	52 2011 001 2454	52 2012 001 2455	52 2015 001 2386
CLASS NO. PART DESCRIPTION				
BF30-83 Pivot Locator	1	1	1	
BF30-81 Bracket Jamb Blue Zinc	1	1	1	1
BF30-22 2-Door Snugger	1	1	1	
BF30-24 4-Door Snugger	1	1	1	
BF30-31 Top Pivot	2	1		
BF50-34 Top Pivot				2
BF30-33 Bottom Pivot	1	1	1	
BF30-36 Bottom Pivot				1
BF30-25 Slide Guide				1
BF30-32 Guide Wheel	1	1	1	
BF50-61 Plastic Knob Tan		1		
BF50-62 Wood Knob	1			
Plastic Knob White				1
BF50-72 Aligner	1	1	1	1
#8 x 5/8" Pan Head Screw	2	2	2	2
#8 x 1-1/2" Flat Head Screw	5	5	5	2
#8 x 3/4" Flat Head Screw	5	5	5	
#8 x 1-3/4" Truss Head Knob Screw	1	1		
#8 x 1-1/4" Pan Head Screw				3
#8 x 1-3/4" Truss Head Mach. Screw			1	

EPD No. Bagset Catalog No.	52 2017 001 2400	52 2492 001 2381-M	52 2528 001 2385	52 3128 001 2568	52 2016 001 2405
CLASS NO. PART DESCRIPTION					
BF30-83 Pivot Locator	1				1
BF30-81 Bracket Jamb Blue Zinc	1				1
BF50-81 Adjustable Jamb Bracket		1	1	2	
BF30-22 2-Door Snugger	1				1
BF30-24 4-Door Snugger	1			1	1
BF50-34 Top Pivot	1	2	2	2	1
BF30-36 Bottom Pivot	1	1	1	2	1
BF30-25 Slide Guide		1	1		
BF30-35 Guide Wheel	1			2	1
BF50-61 Plastic Knob Tan	1				
F50-62 Wood Knob				2	1
BF50-65 Brass Knob			1		
BF50-72 Aligner	1		1	2	1
#8 x 5/8" Pan Head Screw	2		2	4	2
#8 x 1-1/2" Flat Head Screw	5	5	5	10	5
#8 x 3/4" Flat Head Screw	5	5	5	10	5
#8 x 1-3/4" Truss Head Knob Screw	1			2	1
#8 x 1-1/4" Pan Head Screw			3		
#8 x 1-3/4" Truss Head Mach. Screw			1		
#8 x 1-9/16" Truss Head Knob Screw			1		

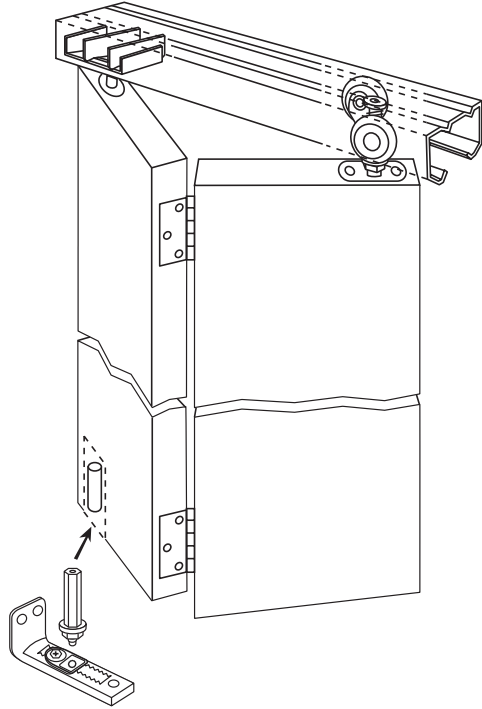
BiFold Hardware



BF50

50 lb. Panel Bifold

For installation of 2 or 4, 1" to 1 3/4" thick panels weighing up to 50 lbs. each, or multi-panels weighing up to 30 lbs. each.



Features

- Extruded aluminum track
- Permanently lubricated 2-wheel roller carriage
- Spring loaded top pivot for easy installation
- All metal components galvanized against corrosion
- Quick, easy adjustments after installation
- Smooth, quiet operation

ANSI Reference

- BF50 conforms to ANSI A156.14 type D8621, D8642, D8652, D8662

Cross Reference

- STANLEY 2600 series • Crowder CF-115
- Grant 1600 • Hager 9570
- Johnson 111 FD • Lawrence HD 620/640
- Sterling 1570

Sizing Information

To determine panel width:

Panel width = known finished opening width divided by number of panels, less 1/4"

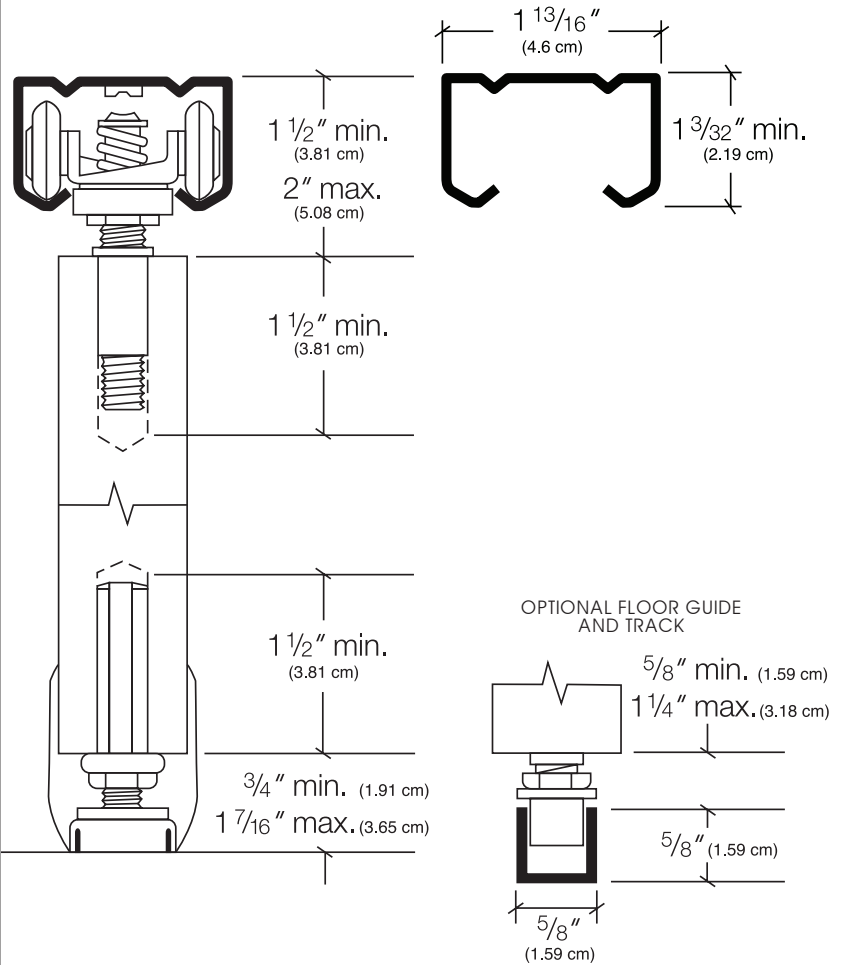
To determine opening width:

Opening width = known finished panel width plus 1/4", multiplied by number of panels

Door height = 2 3/8" less than finished opening height

Note: For multi-panel sizing information please contact factory.

Installation Detail



BF50 – Complete Packaged Sets

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 36" opening	BFC50-00-36	10 sets	16 lbs	40 2293 001
4 Door 48" opening	BFC50-00-48	10 sets	25 lbs	40 2294 001
4 Door 60" opening	BFC50-00-60	10 sets	28 lbs	40 2295 001
4 Door 72" opening	BFC50-00-72	10 sets	30 lbs	40 2296 001
4 Door 96" opening	BFC50-00-96	10 sets	38 lbs	40 2298 001


NOTE: Hinges not included in the set

Track


Track No.	Length	Finish	Case QTY.	Case WEIGHT	EDP Number
BF50-01-48	47 7/8"	ALUMINUM	10	13 LBS	40 2321 001
BF50-01-60	59 7/8"	ALUMINUM	10	16 LBS	40 2322 001
BF50-01-72	71 7/8"	ALUMINUM	10	19 LBS	40 2323 001
BF50-01-96	96"	ALUMINUM	10	24 LBS	40 2324 001
BF50-01-120	120"	ALUMINUM	10	32 LBS	40 2326 001
BF50-01-144	144"	ALUMINUM	10	36 LBS	40 2327 001
BF50-01-192	192"	ALUMINUM	10	52 LBS	40 2328 001

Packaged Set Components

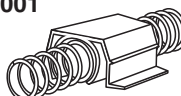
Aluminum Track EDP No.

BF50-01-XX ** 

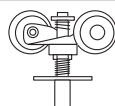
Pivot Bracket Case Qty. EDP No.

BF50-11 200 ea. 40 2304 001
Adjustable with wrench or screwdriver 


Snugger

BF50-22 100 ea. 40 2306 001 

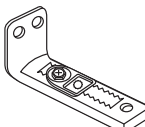
Hanger

BF50-41 10 ea. 40 2303 001 
Two-wheel hanger with guide wheel


BF50-34 200 ea. 52 2272 001
Top Pivot 

BF50-33 200 ea. 52 2276 001 
Bottom Pivot

Jamb Bracket with Pivot Block

BF50-81 - 3/4" screws 200 ea. 52 2252 001 
Easy horizontal adjustment


Aligners

BF50-72 100 pr. 52 2224 001 
For use in four door installations

Adjusting Wrench

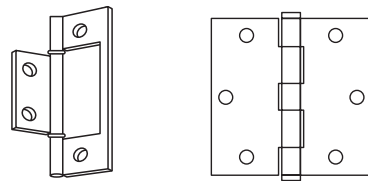
BP250-99 400 ea. 52 2232 001 

Knobs

BF50-62 - Wood 100 ea. 52 1280 001 
Wood

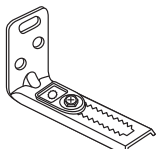
Accessories & Options

Hinges Case Qty. EDP No.




Jamb Brackets

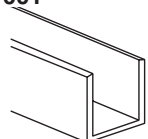
BF50-83 200 ea. 52 2264 001
Floor Bracket for slab floor installations 

BF50-84 200 ea. 52 3236 001
3/4" flat head screws Heavy Duty
Jamb Bracket for mounting above floor 

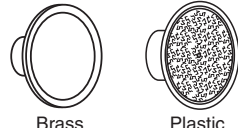
Floor Guide

BF125-71 10 ea. 40 2309 001 
Adjustable high performance, lubricated, thermoplastic guide, 7/16" diameter shank
For use with BF125-91 Track

Floor Guide Track

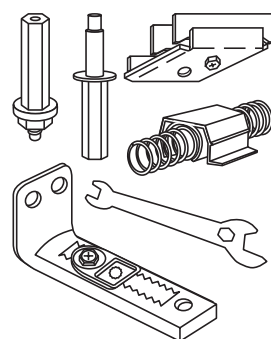
BF125-91 10 ea. 40 2310 001 
5/8" x 5/8" x 8' Aluminum

Knobs

BF50-61 Plastic 100 ea. 52 1244 001
BF50-65 Brass 400 ea. 52 1236 001 
Brass Plastic

Hardware Set

BF50-HDW 10 sets 40 2308 001
Set includes 1 BF50-11 pivot bracket, 1 BF50-81 jamb bracket, 1 BF50-34 top pivot, 1 BF50-33 bottom pivot, 1 BF50-25 snugger accordion, 1 BF250-99 wrench, screws and instructions

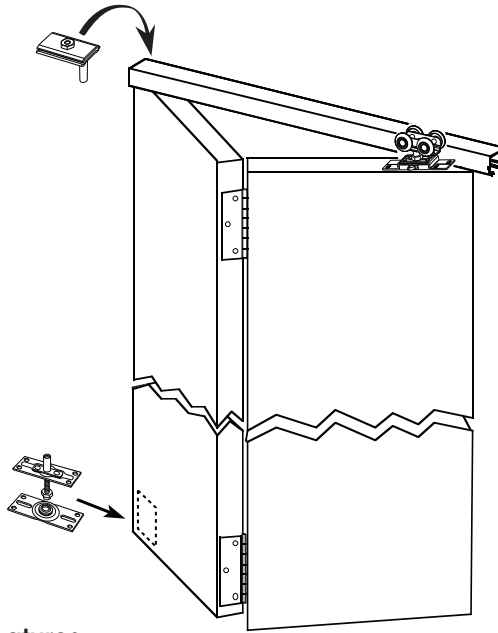


BiFold Hardware

BF125N

125 lb. Panel Bifold

For installation of 2 panels weighing up to 125 lbs. each or multi-panels weighing up to 75 lbs. each, 1 1/8" to 1 3/4" thick. For thicker panels, consult factory.



Features

- Large ball bearing wheels provide smooth action
- Easy-to-install snap-in feature makes hangers a "snap" to install
- Durable V-groove aluminum track provides smooth, quiet operation
- All metal components zinc plated to guard against corrosion
- Heavy duty pivot set designed for durability and aesthetics

ANSI Reference

- BF125N conforms to ANSI A156.14 type D8621, D8641, D8651, D8661

Cross Reference

- STANLEY 2700 series • Cox 42-200 • Grant 1260
- Hager 9870 • Johnson 200 FD/RD
- Lawrence 570 Track w/ED 620/640
- Sterling 1870



Sizing Information

To determine panel width:

Panel width = known finished opening width divided by number of panels, less 1/4"

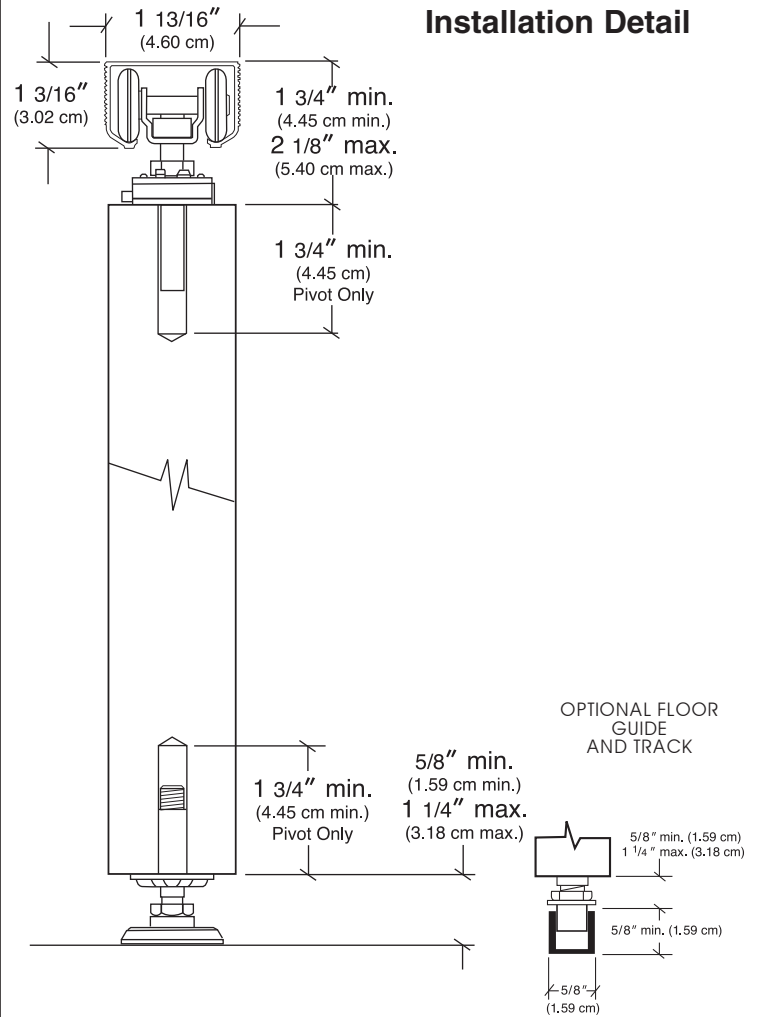
To determine opening width:

Opening width = known finished panel width plus 1/4", multiplied by number of panels

Door height = 2 3/4" less than finished opening height

Note: For multi-panel sizing information please contact factory.

Installation Detail



Complete Packaged Sets

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 30" opening	BF125N-00-30	6 sets	26 lbs	40 5225
2 Door 36" opening	BF125N-00-36	6 sets	26 lbs	40 5232
2 Door 48" opening	BF125N-02-48	6 sets	31 lbs	40 5242
4 Door 48" opening	BF125N-04-48	6 sets	46 lbs	40 5244
4 Door 60" opening	BF125N-00-60	6 sets	50 lbs	40 5254
4 Door 72" opening	BF125N-00-72	6 sets	54 lbs	40 5264
4 Door 96" opening	BF125N-00-96	6 sets	60 lbs	40 5284

Track

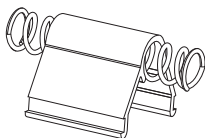
Track No.	Length	Finish	Case QTY.	Case Weight	EDP Number
BF125N-01-48	48"	ALUMINUM	10	13 LBS	40 5102 001
BF125N-01-60	60"	ALUMINUM	10	16 LBS	40 5103 001
BF125N-01-72	72"	ALUMINUM	10	29 LBS	40 5104 001
BF125N-01-96	96"	ALUMINUM	10	39 LBS	40 5105 001
BF125N-01-120	120"	ALUMINUM	10	47 LBS	40 5106 001
BF125N-01-144	144"	ALUMINUM	10	57 LBS	40 5107 001
BF125N-01-192	192"	ALUMINUM	10	78 LBS	40 5108 001

Packaged Set Components

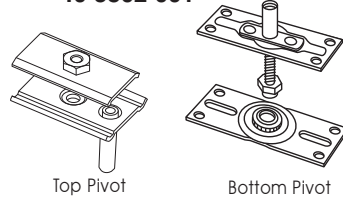
Aluminum Track EDP No.

BF250N-01-XX ******
 V-grooved 

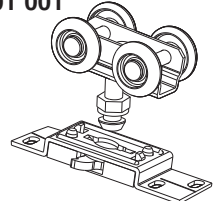
Snigger Case Qty. EDP No.

BF125N-21 **100 ea. 52 4254 001**


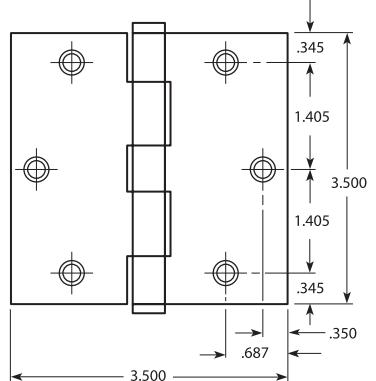
Top & Bottom Pivots Set

BF125N-31 **10 sets 40 5302 001**
 Fits into 1 3/4" deep, 3/8" diameter hole in door

Top Pivot Bottom Pivot

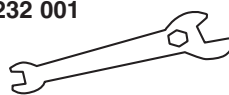
Hangers Case Qty. EDP No.

BF125N-41 **10 ea. 40 5301 001**
 Four large ball bearing wheels, easy installation feature



Hinges Case Qty. EDP No.

741 **50 pks. 08 2100**
 US4 Satin Brass Finish
 3 1/2" x 3 1/2", with screws
 .088 Gauge


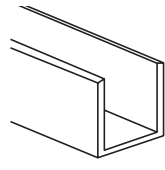
Adjustment Wrench

BP250-99 **400 ea. 52 2232 001**


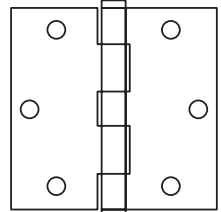
Floor Guide Case Qty. EDP No.

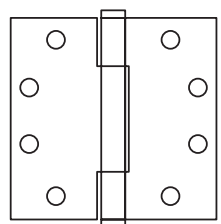
BF125-71 **10 ea. 40 2309 001**
 Adjustable, high performance, lubricated, thermoplastic guide
 7/16" diameter shank
 For use with BF125-91 track


Floor Guide Track

BF125-91 **10 ea. 40 2310 001**
 Aluminum floor guide track
 5/8" x 5/8" x 8'


Hinges

F179/F191
CB179/CB191
FBB179/FBB191
1900R / 1960R
CB1900R / CB1960R

 F179 Shown

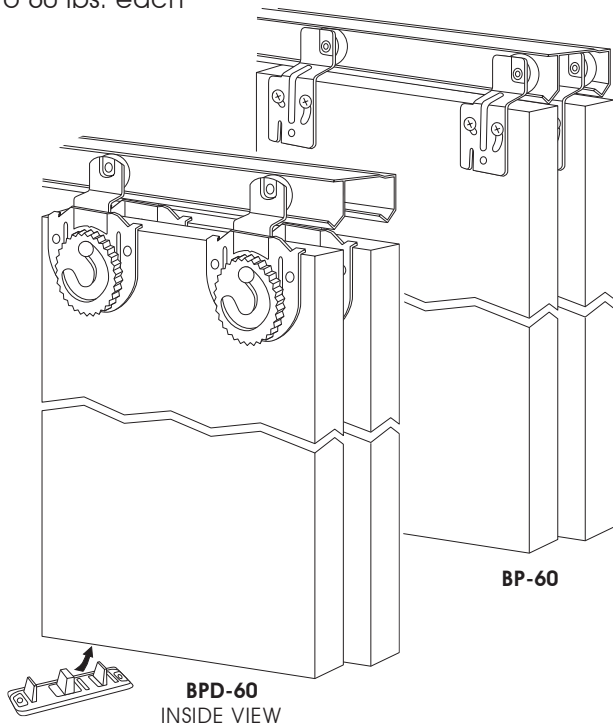

 CB1900R Shown

ByPass Hardware

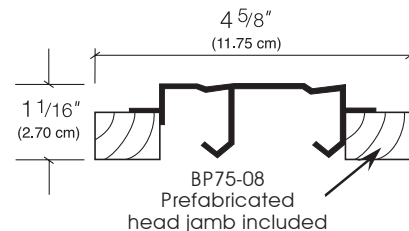
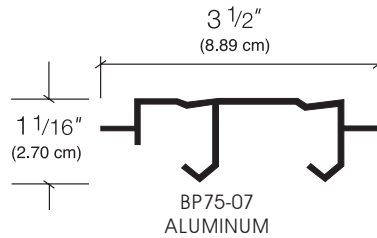
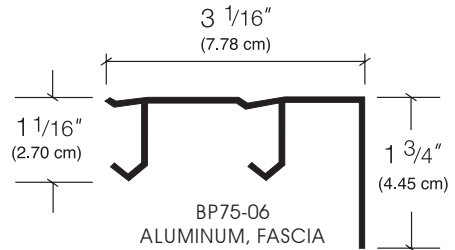
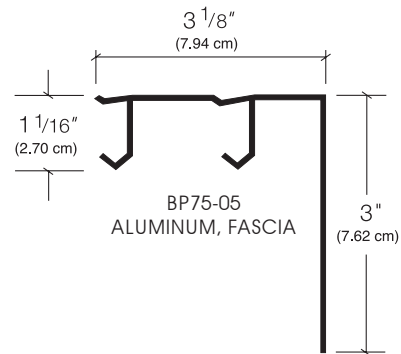
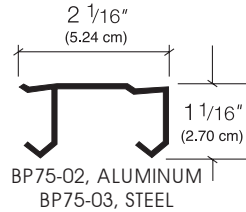
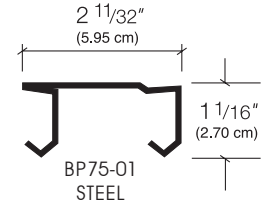
BP60 & BPD60

60lb. Panel ByPass

For installation of 2 By panels $3/4"$ to $1\ 3/8"$ thick, weighing up to 60 lbs. each



Track Detail



Features

- Hangers easy to adjust
- Self-aligning wheel system
- Permanently lubricated thermoplastic wheel
- Supports panels weighing up to 60 lbs
- Vertical adjustments can be made after installation
- Hanger system allows for easy panel removal
- V-groove galvanized steel or aluminum track provides smooth, quiet operation

ANSI Reference

- BPC60, BPC60A, BP60, BPD60, BPD60A conform to ANSI A156.14 type D8742; BPC60AF, BPD60AF conform to type D8752

Sizing Information

To determine panel width:

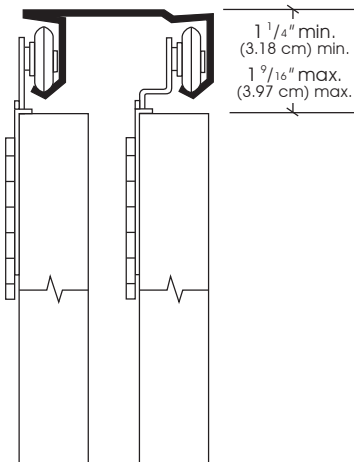
Panel width = known finished opening width plus 1" per overlap, divided by number of panels

To determine opening width:

Opening width = known finished panel width multiplied by number of panels, less 1" per overlap

Door height = $1\ 3/4"$ less than finished opening height

Installation Detail



Complete Packaged Sets Slot Adjust



CONTRACTOR Box Set with steel track BP75-01 For 1 3/8" thick doors only.

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 47" opening	BPC60-00-48	10 sets	26 lbs	40 3006 001
2 Door 59" opening	BPC60-00-60	10 sets	30 lbs	40 3008 001
2 Door 71" opening	BPC60-00-72	10 sets	35 lbs	40 3010 001
2 Door 95" opening	BPC60-00-96	10 sets	45 lbs	40 3012 001

CONTRACTOR Box Set w/aluminum track BP75-02 For 3/4" and 1 3/8" thick doors.

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 47" opening	BPC60A-00-48	10 sets	16 lbs	40 3020 001
2 Door 59" opening	BPC60A-00-60	10 sets	19 lbs	40 3021 001
2 Door 71" opening	BPC60A-00-72	10 sets	22 lbs	40 3022 001

RETAIL Box Set with steel track BP75-03 For 3/4" and 1 3/8" thick doors.

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 47" opening	BP60-00-48	6 sets	20 lbs	40 3040
2 Door 59" opening	BP60-00-60	6 sets	23 lbs	40 3050
2 Door 71" opening	BP60-00-72	6 sets	27 lbs	40 3060
2 Door 95" opening	BP60-00-96	6 sets	35 lbs	40 3080

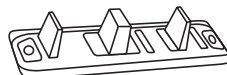
Packaged Set Components

Single Wheel Hangers	Case Qty.	EDP No.
BP60-43 – 1/4" offset Includes 7 each 5/8" screws	50 per	54 1268 001
BP60-44 – 1/4" offset Includes 4 each 5/8" and 3 each 1-1/2" screws	50 per	54 1272 001
BP60-45 – 1/2" offset Includes 7 each 5/8" screws	50 per	54 1284 001
BP60-46 – 1/2" offset Includes 4 each 5/8" and 3 each 1-1/2" screws	50 per	54 1288 001



Floor Guide

BP150-71 – Zinc / White Adjustable for 3/4" to 1-3/8" thick bypassing doors	50 ea.	54 1008 001
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Pulls

BP150-61 Bright Brass 3/4" finger pull	200 ea.	52 1224 001
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Complete Packaged Sets Dial Adjust



RETAIL Box Set with steel track BP75-03 For 3/4" and 1 3/8" thick doors.

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 47" opening	BPD60-00-48	6 sets	21 lbs	40 3140
2 Door 59" opening	BPD60-00-60	6 sets	25 lbs	40 3150
2 Door 71" opening	BPD60-00-72	6 sets	28 lbs	40 3160
2 Door 95" opening	BPD60-00-96	6 sets	36 lbs	40 3180

RETAIL Box Set with aluminum track BP75-02 For 3/4" and 1 3/8" thick doors.

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 47" opening	BPD60A-00-48	6 sets	16 lbs	40 3240 001
2 Door 59" opening	BPD60A-00-60	6 sets	18 lbs	40 3250 001
2 Door 71" opening	BPD60A-00-72	6 sets	20 lbs	40 3260 001

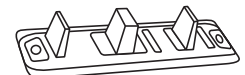
Packaged Set Components

Single Wheel Hangers	Case Qty.	EDP No.
BP60-41 – 7/16" offset #1 Finger adjustable, side mounted	100 ea.	54 1024 001
BP60-42 – 1/8" offset #2 Finger adjustable, side mounted	100 ea.	54 1028 001



Floor Guide

BP150-71 – Zinc / White Adjustable for 3/4" to 1-3/8" thick bypassing doors	50 ea.	54 1008 001
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Pulls

BP150-61 Bright Brass 3/4" finger pull	20 ea.	52 1224 001
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Track

Track No.	Length	Finish	Case Qty.	Case Weight	EDP Number
BP75-01-48	46 1/2"	STEEL	10	18 LBS	54 1416 001
BP75-01-60	58 1/2"	STEEL	10	24 LBS	54 1420 001
BP75-01-72	70 1/2"	STEEL	10	29 LBS	54 1424 001
BP75-01-96	93 1/2"	STEEL	10	39 LBS	54 1436 001
BP75-01-120	120"	STEEL	10	51 LBS	54 1444 001
BP75-01-144	144"	STEEL	10	54 LBS	54 1448 001
BP75-02-48	46 3/8"	ALUMINUM	10	12 LBS	54 1232 001
BP75-02-60	58 3/8"	ALUMINUM	10	15 LBS	54 1236 001
BP75-02-72	70 3/8"	ALUMINUM	10	17 LBS	54 1240 001
BP75-02-96	3 3/8"	ALUMINUM	10	25 LBS	54 1248 001
BP75-02-144	144"	ALUMINUM	10	35 LBS	54 1264 001
BP75-03-48	46 3/8"	STEEL	10	18 LBS	59 3096 001
BP75-03-60	58 3/8"	STEEL	10	24 LBS	59 3100 001
BP75-03-72	70 3/8"	STEEL	10	29 LBS	59 3104 001

Track No.	Length	Finish	Case Qty.	Case Weight	EDP Number
BP75-05-48	46 7/8"	ALUMINUM	10	23 LBS	54 1456 001
BP75-05-60	58 7/8"	ALUMINUM	10	28 LBS	54 1460 001
BP75-05-72	70 7/8"	ALUMINUM	10	34 LBS	54 1464 001
BP75-05-96	94 7/8"	ALUMINUM	10	46 LBS	54 1472 001
BP75-05-120	120"	ALUMINUM	10	59 LBS	54 1476 001
BP75-06-48	48"	ALUMINUM	10	18 LBS	54 1488 001
BP75-06-60	60"	ALUMINUM	10	22 LBS	54 1492 001
BP75-06-72	72"	ALUMINUM	10	25 LBS	54 1496 001
BP75-06-96	96"	ALUMINUM	10	39 LBS	54 1504 001
BP75-06-144	144"	ALUMINUM	10	54 LBS	54 1512 001
BP75-07-48	46 7/8"	ALUMINUM	10	23 LBS	54 1368 001
BP75-07-60	58 7/8"	ALUMINUM	10	28 LBS	54 1372 001
BP75-07-72	70 7/8"	ALUMINUM	10	34 LBS	54 1376 001
BP75-08-48	46 7/8"	ALUMINUM	10	23 LBS	54 1384 001
BP75-08-60	58 7/8"	ALUMINUM	10	28 LBS	54 1388 001
BP75-08-72	70 7/8"	ALUMINUM	10	34 LBS	54 1392 001

See next page for accessories and options

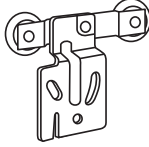
ByPass Hardware

BP60 & BPD60

Twin Wheel Hangers Case Qty. EDP No.

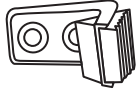
BP75-43— 1/4" offset **50 pr.** **54 1296 001**
Twin wheel hanger, side mounted

BP75-45— 1/2" offset **50 pr.** **54 1304 001**
Twin wheel hanger, side mounted
For doors up to 75 lbs. each.



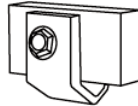
Angle Stop

BP250-75— Zinc **100 ea.** **54 1004 001**
Attaches to back of one panel to prevent panels from crossing



Center Stop

BP75-76 **40 3998 001**
Attaches to track to limit door travel



Accessories & Options

Pulls

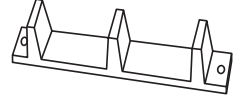
BP250-61— Bright Brass **20 ea.** **52 1228 001**
2-1/8" Flush Pull

BP250-62— Antique Brass **100 ea.** **52 1240 001**
2-1/8" Flush Pull



Floor Guides

BP150-72— White **100 ea.** **54 1020 001**
Floor Guide, plastic, for 1-3/8" thick doors



BP150-73— White **100 ea.** **54 1000 001**
Floor Guide, plastic, one pair/door

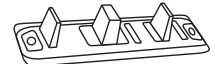


Carpet Riser

BP150-74— Zinc **50 ea.** **54 1016 001**
Carpet Riser provides 1/2" rise for Floor Guide BP150-71 and BP150-72



BP150-75— Zinc/White **50 ea.** **54 1012 001**
(BP150-71 50 per box bulk pack)
For 3/4" to 1 3/8" doors.



EDP No.	54 1292 001 8902-BX BP60-HDW-5	54 1104 001 8400-BX1 BP60-HDW-8	54 1280 001 8901-BX BP60-HDW-4	54 1252 001 8900-BX BP60-HDW-3	54 1116 001 8401-BX BP60-HDW-2	54 1100 001 8400-BX BP60-HDW	54 1312 001 8906-X BP75-HDW-2	54 1036 001 8100-BX BP75-HDW-1	
Class No.	Part Description								
BP60-46	4	4	-	2	4	4	-	-	
BP60-44	-	-	4	2	-	-	-	-	
BP75-45	-	-	-	-	-	-	4	2	
BP75-43	-	-	-	-	-	-	-	2	
BP150-72	1	-	-	-	-	-	1	-	
BP150-71	-	1	1	1	1	1	-	1	
BP250-61	2	-	-	-	2	-	2	-	
BP150-61	-	2	-	-	-	-	-	-	
BP150-62	-	-	2	2	-	2	-	2	
	#8 x 5/8" Pan Head Screw	10	10	16	16	16	16	10	16
	#8 x 1 1/2" Pan Head Screw	6	10	-	10	10	10	6	-
	Instruction Sheet	1	1	-	1	1	1	1	1
	Instruction Sheet	-	-	1	-	-	-	-	-
	Carton Qty.	10	10	10	10	10	10	10	10

How to Determine Hanger Combinations

3/4" Panels

TRACK	SLOT ADJUST HANGERS SINGLE WHEEL FRONT/REAR	SLOT ADJUST HANGERS TWIN WHEEL FRONT/REAR	DIAL ADJUST HANGERS FRONT/REAR
BP75-02	BP60-45/BP60-44	BP75-45/BP75-43	BP60-41/BP60-42
BP75-03	BP60-45/BP60-44	BP75-45/BP75-43	BP60-41/BP60-42

1" – 1 1/8" Panels

BP75-01	BP60-45/BP60-44	BP75-45/BP75-43	BP60-41/BP60-42
BP75-02	BP60-45/BP60-45	BP75-45/BP75-45	BP60-41/BP60-41
BP75-03	BP60-45/BP60-45	BP75-45/BP75-45	BP60-41/BP60-41
BP75-05	BP60-45/BP60-44	BP75-45/BP75-43	BP60-41/BP60-42
BP75-06	BP60-45/BP60-44	BP75-45/BP75-43	BP60-41/BP60-42
BP75-07	BP60-45/BP60-44	BP75-45/BP75-43	-
BP75-08	BP60-45/BP60-44	BP75-45/BP75-43	-

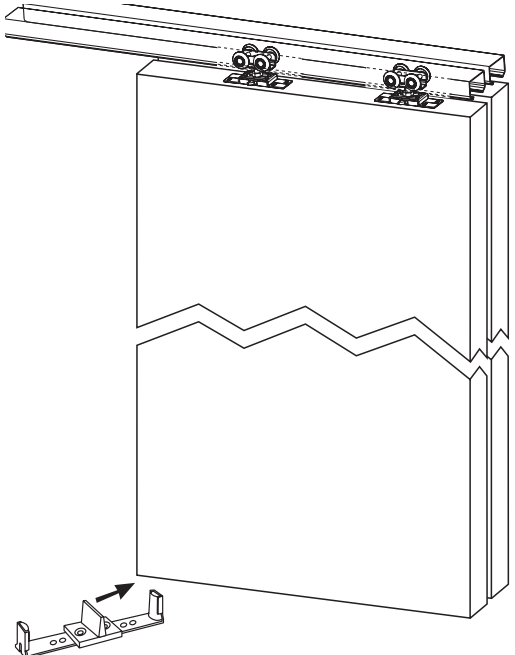
1 3/8" Panels

BP75-01	BP60-45/BP60-45	BP75-45/BP75-45	BP60-41/BP60-41
BP75-02	BP60-43/BP60-45	BP75-43/BP75-45	BP60-42/BP60-41
BP75-03	BP60-43/BP60-45	BP75-43/BP75-45	BP60-42/BP60-41
BP75-05	BP60-45/BP60-45	BP75-45/BP75-45	BP60-41/BP60-41
BP75-06	BP60-45/BP60-45	BP75-45/BP75-45	BP60-41/BP60-41
BP75-07	BP60-44/BP60-44	BP75-43/BP75-43	-
BP75-08	BP60-44/BP60-44	-	-

ByPass Hardware

BP150N & BP250N

For installation of 2 bypassing doors, with 1 3/8" to 1 3/4" thick panels



Features

- BP150N supports panels weighing up to 150 lbs
- BP250N supports panels weighing up to 250 lbs
- Large 1" wheels provide smooth action
- Easy-to-install snap-in feature makes hangers a "snap" to install. Vertical adjustments can be made after installation.
- Durable V-groove aluminum track provides smooth, quiet operation
- Track spacer allows for easy installation of 1 3/4" bypass and tri-pass doors

ANSI Reference

- BPC150N and BPC250N conform to ANSI A156.14 type D8731
- Above with Fascia conform to ANSI A156.14 type D8751

Cross Reference – BP150N

- STANLEY 1700 series • Cox 15 • Crowder C-500
- Grant 7000 • Hager 9602 • Sterling 1754
- Lawrence 581 Track w/HD520

Cross Reference – BP250N

- STANLEY - 57/58 • Crowder C-103-4
- Grant 1200 • Hager 9875
- Lawrence - F571/ED520 • Sterling 1876



150 lb. & 250 lb. Panel ByPass

Sizing Information

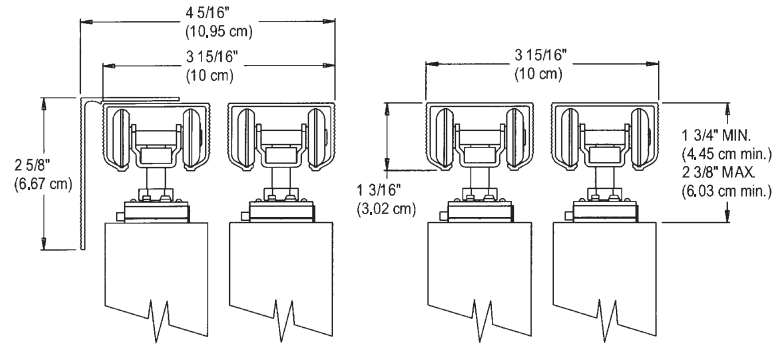
To determine panel width:
 Panel width = known finished opening width plus 1" per overlap divided by the number of panels

To determine opening width:
 Opening width = known finished panel width multiplied by number of panels, less 1" per overlap

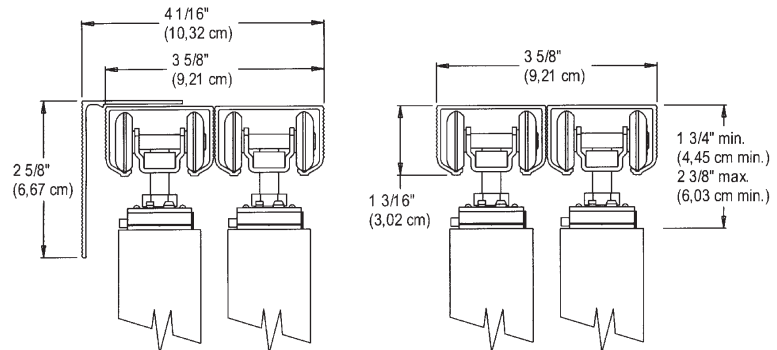
Door height = 2 5/8" less than finishing opening height

Installation Detail

1 3/4" DOORS



1 3/8" DOORS



Complete Packaged Sets

150 lb.

CONTRACTOR Box Set with BP150N – 41 Hangers

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 48" opening	BPC150N-00-48	6 sets	22 lbs	40 5664
2 Door 60" opening	BPC150N-00-60	6 sets	25 lbs	40 5665
2 Door 72" opening	BPC150N-00-72	6 sets	28 lbs	40 5666
2 Door 96" opening	BPC150N-00-96	6 sets	34 lbs	40 5668

250 lb.

CONTRACTOR Box Set with BP250N – 41 Hangers

Description	Set No.	Case Qty.	Case Weight	EDP Number
2 Door 60" opening	BPC250N-00-60	6 sets	48 lbs	40 5750
2 Door 72" opening	BPC250N-00-72	6 sets	53 lbs	40 5760
2 Door 96" opening	BPC250N-00-96	6 sets	63 lbs	40 5780

BP150N & BP250N

Track

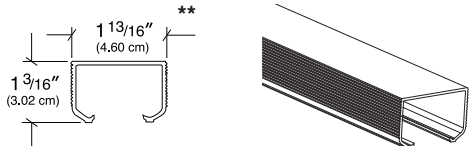
Track No.	Length	Finish	Case QTY.	Case Weight	EDP Number
BP250N-01-48	48"	ALUMINUM	10	13 LBS	40 5102 001
BP250N-01-60	60"	ALUMINUM	10	16 LBS	40 5103 001
BP250N-01-72	72"	ALUMINUM	10	29 LBS	40 5104 001
BP250N-01-96	96"	ALUMINUM	10	39 LBS	40 5105 001
BP250N-01-120	120"	ALUMINUM	10	47 LBS	40 5106 001
BP250N-01-144	144"	ALUMINUM	10	57 LBS	40 5107 001
BP250N-01-192	192"	ALUMINUM	10	78 LBS	40 5108 001

Fascia

Track No.	Length	Finish	Case QTY.	Case Weight	EDP Number
BP250N-02-48	48"	ALUMINUM	10	24 LBS	40 5200 001
BP250N-02-60	60"	ALUMINUM	10	30 LBS	40 5201 001
BP250N-02-72	72"	ALUMINUM	10	35 LBS	40 5202 001
BP250N-02-96	96"	ALUMINUM	10	35 LBS	40 5203 001
BP250N-02-120	120"	ALUMINUM	10	35 LBS	40 5204 001

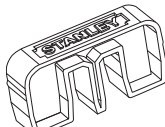
Packaged Set Components

Aluminum Track	EDP No.
BP250N-01-XX	



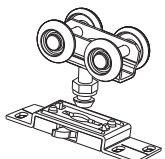
Track Spacer	Case Qty.	EDP No.
BP250N-00	10 sets	40 5306 001

For 1 3/4" doors



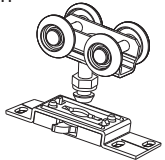
Hanger	Case Qty.	EDP No.
BP150N-41	20 pr.	40 5304 001

Four large wheels, easy installation feature
Packaged with BP150N-00



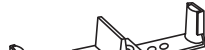
Hanger	Case Qty.	EDP No.
BP250N-41	5 pr.	40 5305 001

Four large, ball-bearing wheels, easy installation feature
Packaged with BP250N-00




Floor Guide	Case Qty.	EDP No.
BP250N-71	50 ea.	40 3534 001

Adjustable for 1 3/8" to 1 3/4" thick bypassing doors

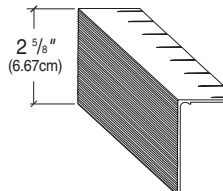


Adjusting Wrench	Case Qty.	EDP No.
BP250-99	400 ea.	52 2232 001




Accessories & Options

Aluminum Fascia	EDP No.
BP250N-02-XX	**



Angle Stop	Case Qty.	EDP No.
BP250-75 – Zinc	100 ea.	54 1004 001

Attaches to back of one panel to prevent panels from crossing




Center Stop	Case Qty.	EDP No.
BP250-77 – Zinc	20 ea.	40 0004 001

Attaches to track to limit panel travel




Pulls	Case Qty.	EDP No.
BP150-61 – Bright Brass	200 ea.	52 1224 001

3/4" Finger Pull




BP250-61 – Bright Brass	20 ea.	52 1228 001
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2 1/8" Flush Pull



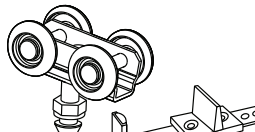
BP250-62 – Antique Brass	100 ea.	52 1240 001
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2 1/8" Flush Pull



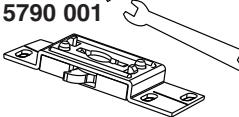
Hanger Sets	Case Qty.	EDP No.
BP150N-HDW	10 sets	44 5860 001

Set contains (2) BP250N-43 hanger plates, (2) BP150N-41 ball bearing hangers, (1) BP250-99 wrench and (1) BP250-71 floor guide. (For doors weighing up to 150 lbs. each)




BP250N-HDW	10 sets	40 5790 001
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Set contains (2) BP250N-43 hanger plates, (2) BP250N-41 ball bearing hangers, (1) BP250-99 wrench and (1) BP250-71 floor guide. (For doors weighing up to 250 lbs. each)



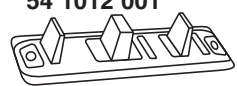
Floor Guides	Case Qty.	EDP No.
BP150-71 – Zinc/White	50 ea.	54 1008 001

Adjustable for 3/4" to 1 3/8" thick bypassing doors




BP150-75 – Zinc/White	50 ea.	54 1012 001
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Adjustable for 3/4" to 1 3/8" thick bypassing doors




BP150-72 – White	100 ea.	54 1020 001
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Floor Guide, plastic, for 1 3/8" thick doors




BP150-73 – White	100 ea.	54 1000 001
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Floor Guide, plastic, one pair/door



Carpet Riser	Case Qty.	EDP No.
BP150-74 – Zinc	50 ea.	54 1016 001

Carpet Riser provides 1/2" rise for Floor Guides BP150-71 and BP150-72

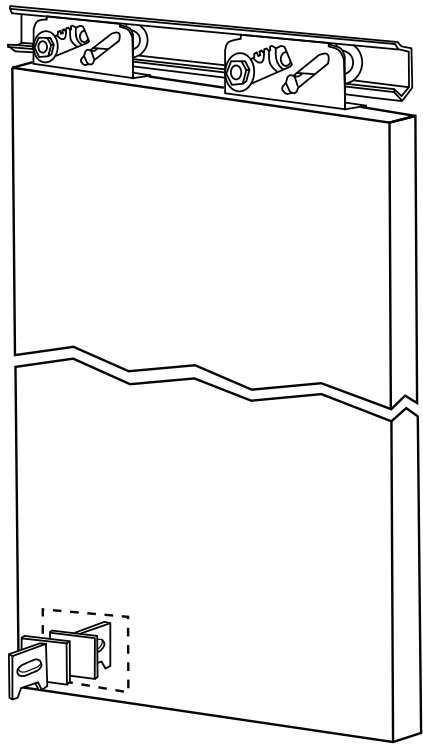


Pocket Door Hardware

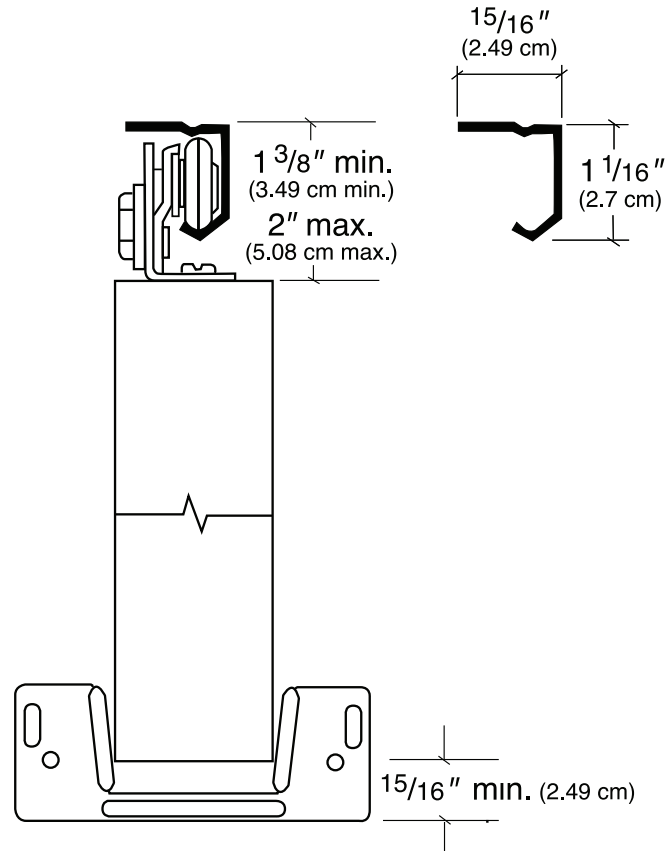
PD75

75 lb. Panel – Pocket Door

For installation of pocket or bi-parting doors, with 3/4" to 1 3/4" thick panels weighing up to 75 lbs. each.



Installation Detail



Features

- Self-aligning wheel system
- Permanently lubricated 2-wheel hangers
- Supports panels weighing up to 75 lbs
- Easy adjustment after installation
- Roll-formed galvanized jump proof steel track

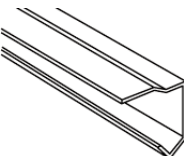
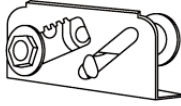

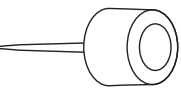

ANSI Reference

- PD75 conforms to ANSI A156.14 types D8691, D8721

Cross Reference

- STANLEY 84/85 series • Crowder C-300/350
- Grant 5075 • Johnson 2800

Packaged Set Components

	Single Track	EDP No.
	PD75-01 V-groove jump proof track Not available separately	**
	BP75-41 Not available separately	**
	PD250-71 Adjustable to center door in pocket	40 3530 001
	PD250-77 Stop and nail	40 3969 001
	BP250-99	52 2232 001

Complete Packaged Sets

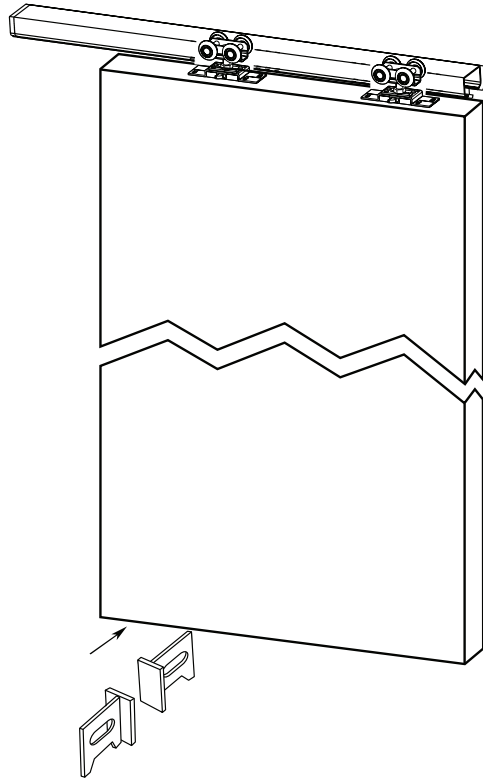
RETAIL Box Set with steel track PD75-01

Description	Set No.	Case Qty.	Case Weight	EDP Number
1 Door 36" opening	PD75-00-36	6 sets	18 lbs	40 3903

PD150N

150 lb. Panel – Pocket Door

For installation of pocket or bi-parting doors, with 1" to 1 3/4" thick panels weighing up to 150 lbs. each.



Features

- Four large 1" wheels for easy rolling action
- Easy-to-install feature makes installation a "snap"
- Supports panels weighing up to 150 lbs
- Easy adjustment after installation
- Cut marks on header make for easy sizing
- V-groove jump proof track

ANSI Reference

- PD150N conforms to ANSI A156.14 type D8681, D8711

Cross Reference

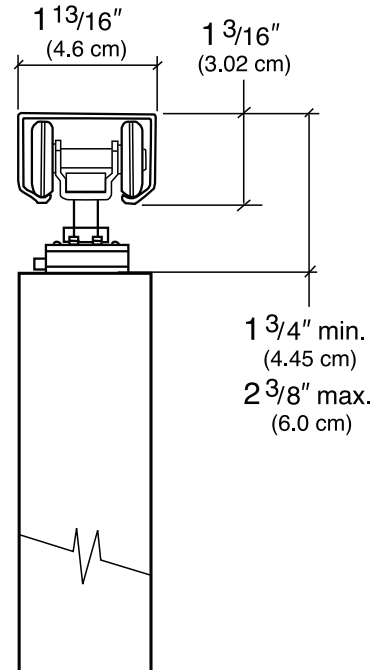
- STANLEY 1750 • Cox 15-200 • Crowder C-411
- Grant 5150 • Hager 9601w/9606 • Sterling 1601

Complete Packaged Sets

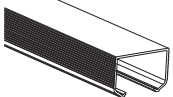
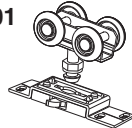

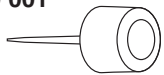

CONTRACTOR Box Set with aluminum track PD250N-01

Description	Set No.	Case Qty.	Case Weight	EDP Number
36" opening	PDC150N-00-36	6 sets	17 lbs	40 5843
48" opening	PDC150N-00-48	6 sets	21 lbs	40 5844

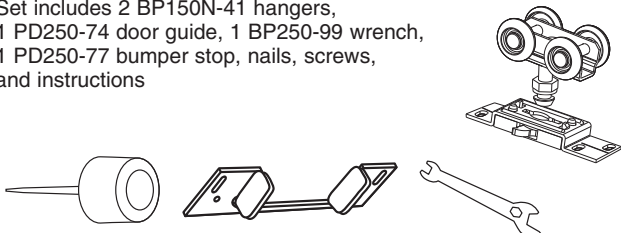
Installation Detail



Packaged Set Components

Aluminum	EDP No.
PD250N-01-xx V-groove jump proof track	** 
Hanger	
BP150N-41	40 5304 001 
Bottom Guide	
PD250-71 Adjustable to center door in pocket	40 3530 001 
Bumper Stop	
PD250-77 Stop and nail	40 3969 001 
Adjusting Wrench	
BP250-99	52 2232 001 

Replacement Hardware

Hardware Set	EDP No.
PD150N-HDW Set includes 2 BP150N-41 hangers, 1 PD250-74 door guide, 1 BP250-99 wrench, 1 PD250-77 bumper stop, nails, screws, and instructions	40 5845 001 

See next page for accessories and options

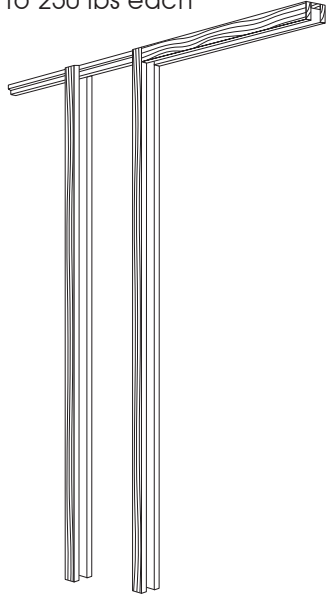
Pocket Door Hardware

PDF150N & PDF250N

150lbs & 250lbs Panel Pocket Frames

PDF150N - For installation of pocket or bi-parting doors up to 3' wide and up to 8' high, weighing up to 150 lbs each

PDF250N - For installation of pocket or bi-parting doors up to 4' wide and up to 8' high, weighing up to 250 lbs each



Features

- Steel wrap around stiffener reinforced split jambs
- Four large 1" wheels for easy rolling action
- PDF150N Supports panels weighing up to 150 lbs
- PDF250N Supports panels weighing up to 250 lbs
- Easy-to-install feature makes installation a "snap"
- V-groove jump proof track
- Cut marks on header for easy sizing

ANSI Reference

All conform to ANSI A156.14 type D8671, D8701

Cross Reference

PDF150N • Crowder Crowderframe • Hager 9629

- Sterling 1630 BB

PDF250N • Hager 9850 • Lawrence PF619

- Sterling 1840

PDF150N – Complete Packaged Sets

CONTRACTOR Box Set

Description	Set No.	Case Qty.	Case Weight	EDP Number
3' x 6'8" opening	PDFC150N-00-68	1 set	26 lbs	40 3925
3' x 7'0" opening	PDFC150N-00-70	1 set	31 lbs	40 5940 001
3' x 8'0" opening	PDFC150N-00-80	1 set	35 lbs	40 5942 001

PDF250N – Complete Packaged Sets

CONTRACTOR Box Set

Description	Set No.	Case Qty.	Case Weight	EDP Number
4' x 8'0" opening	PDFC250N-00	1 set	39 lbs	40 5950 001



Sizing Information

Finished Rough Opening

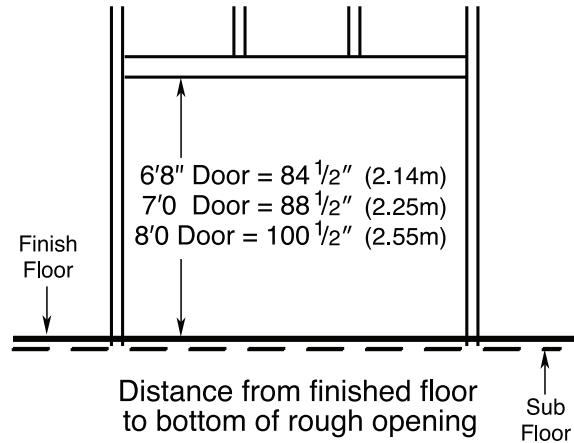
Opening Width = Door width multiplied by 2, add 1 1/4"
For Bi Part – Sum of 2 Doors, multiplied by 2, add 1 1/4"

PDF150N kits are sized for 3'0" door and PDF250N kits are sized for 4'0" door. Both can be cut down to accommodate smaller door widths.

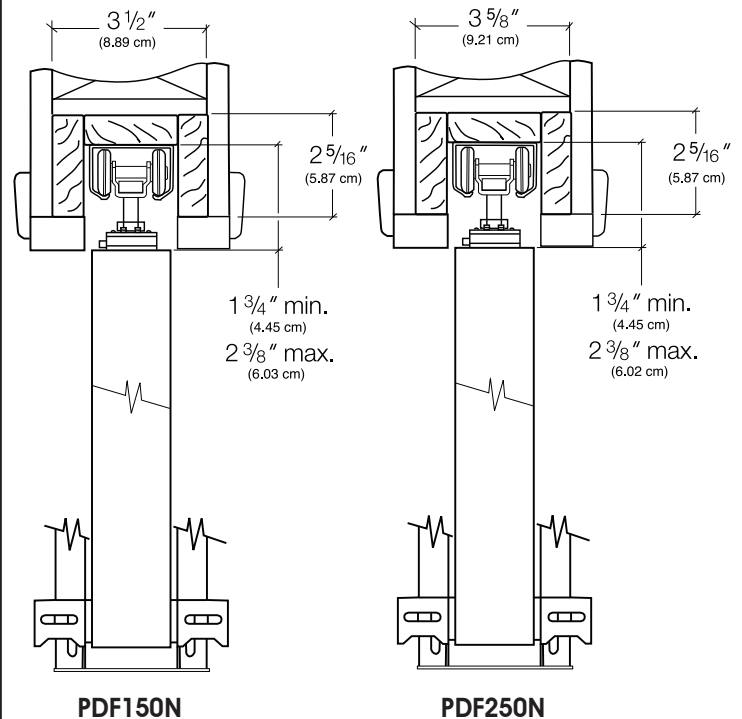
Kits are sized for 6'8", 7'0" or 8'0" door height and can be cut shorter at installation

Rough Opening Height for Single Doors

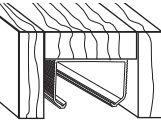
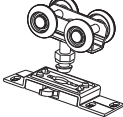


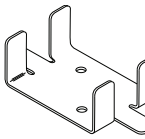

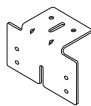

For bi-parting application refer to installation instructions



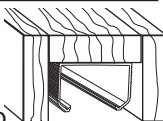
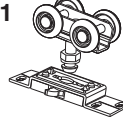

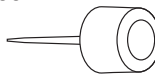
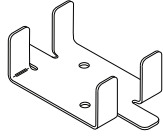



Installation Detail



PD150N – Packaged Set Components

Aluminum Header Track	EDP No.	
PD250N-01 Not available separately	**	
Hanger	Case Qty.	EDP No.
BP150N-41 Four large wheels, easy installation feature	100 ea.	40 5304 001
		
Door Guide		
PD250-71 Adjustable to center door in pocket	100 ea.	40 3530 001
		
Bumper Stop		
PD250-77 Stop and nail	100 ea.	40 3969 001
		
Base Plates		
PDF150-75 Not available separately		
Adjusting Wrench		
BP250N-99	400 ea.	52 2232 001
		
End Bracket		
PDF150-05 Not available separately		
Split Stud Uprights		
PDF150-51 Not available separately		

PD250N – Packaged Set Components

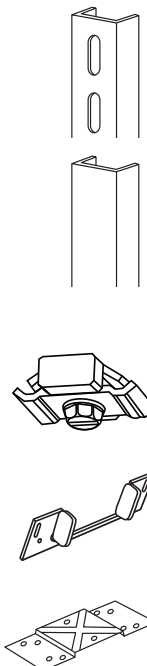
Aluminum Header Track	EDP No.	
PDF250N-01 Not available separately	**	
Hanger	Case Qty.	EDP No.
BP250N-41 Four large ball-bearing wheels, easy installation feature	50 pr.	40 5305 001
		
Door Guide		
PD250-71 Adjustable to center door in pocket	100 ea.	40 3530 001
		
Bumper Stop		
PD250-77 Stop and nail	100 ea.	40 3969 001
		
Base Plates		
PDF250-75 Not available separately		
Adjusting Wrench		
BP250-99	400 ea.	52 2232 001
		
End Bracket		
PDF250-05 Not available separately		
Split Stud Uprights		
PDF250-51 Not available separately		

Pulls (for use on 1 3/8" thick doors)	EDP No.
PD150-61 2 3/4" Pull brass	40 4000
PD150-62 (for use on 1 3/8" thick doors) 2 3/4" Privacy lock, brass 2 3/4" Privacy lock, antique brass	40 4010 001 40 4012 700
Pulls (for use on 1 3/8" to 1 3/4" thick doors)	EDP No.
PD250-61 3 3/4" Pull brass	40 4030
PD250-62 (for use on 1 3/8" to 1 3/4" thick doors) 3 3/4" Privacy lock, brass	40 4040
PD250-63 Edge Pull brass	52 1272 001
PD250-64 2 3/4" x 1 5/16" x 3/8" Flush Pull brass	52 1276 001
PD250-05 Bi-parting bracket with center stops	40 5960 001



Accessories & Options

Jamb Stiffener	EDP No.
PD250-95-81 81 3/4" Slotted Steel Stiffener	40 3963 001
PD250-95-97 97 3/4" Slotted Steel Stiffener	40 3965 001
PD250-96 81 3/4" Plain Steel Stiffener	40 3966 001
Center Stop	EDP No.
BP250-77 Zinc Attaches to track to limit panel travel	40 0004 001
Door Guide	EDP No.
PD250-74 Adjusts to center door in pocket for 1 3/8" doors	40 3993 001
PD250-72 Adjusts to center door in pocket for 1 3/4" doors	40 3997 001
Jamb Spacer	EDP No.
BP250-98	40 3996 001





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