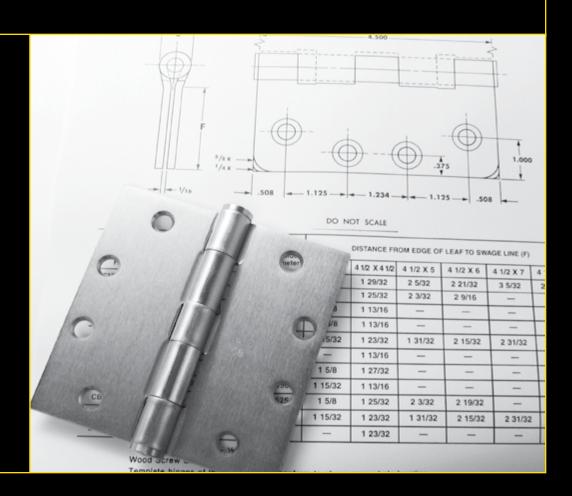
# STANLEY



# **GENERAL HINGE**

**Information** 



#### **Fasteners**



1. Flat recessed head wood screw



Flat recessed head machine screw



7. Flat recessed head machine screw with grommet nut



10. Slotted head machine screw



2. Pan recessed head wood screw



5. Flat spanner head wood screw



8. Sleeve nut and machine screw



11. Tek screw



Button head torx screw, tamper resistant



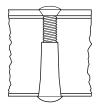
Flat head torx screw, tamper resistant



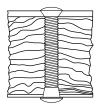
Steel capnut and machine screw for labeled doors

#### 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

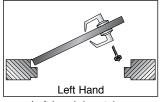


BP-1 Hinge Back Plate [4 1/2" (114mm) size shown]

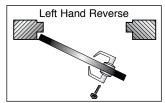
- Through-bolts and grommet nuts regularly furnished with half surface and full surface hinges
- Through-bolts and sleeve nuts available on special order
- Hinge back plates, BP-1, available for hinge sizes 4<sup>1</sup>/<sub>2</sub>" (114mm) and 5" (127mm). Holes accommodate either sleeve nuts or grommet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



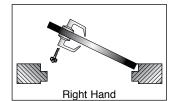
Left hand door takes left hand hinges



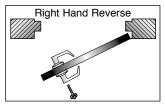
Left hand reverse door takes right hand hinges

Left Hand

Two-Knuckle Hinge



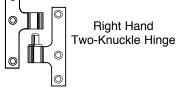
Right hand door takes right hand hinges



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





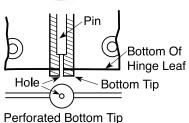
HINGE TY	PE AND DESIG	∍N SELE	ECTION CH	<b>IART</b>			
			3 Knuckle Concealed Bearing	Std. V	3 Knud Veight	Heavy	Weight
	Full Mortise	<b>)</b>	Shown	Steel	Non-ferrous	Steel	Non-ferrous
	Doors Solid Core Wood Hollow Metal Mineral Core Wood Doors w/ minimum 3/4" Edge Style	Frames Wood Hollow Metal		CB1900R	CB1960R	CB1901R	CB1961R
<b>A</b>	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	100	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			CB1946R for beveled edge doors CB1947R	STS CB1946R for beveled edge doors STS	CB1948R for square edge doors CB1949R	STS CB1948R for square edge doors STS
			1	for square	CB1947R for square edge doors	for beveled edge doors	CB1949R for beveled edge doors
	Swing Clear Half Mortise  Doors Wood Channe					CB1941R for square edge doors	STS CB1941R for square edge doors
\\						CB1942R for beveled edge doors	STS CB1942R for beveled edge doors
	Swing Clear Half Surface Doors Frames Mineral Core Hollow I					CB1959R	STS CB1959R
	Swing Clear Full Surface Doors Frames Mineral Core Channe					CB1951R	STS CB1951R
	Pivot Reinforce Full Mortise Doors Frame Solid Core Wood Hollow 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



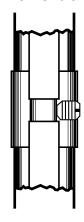
#### Pin Design



- · 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



#### **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 smalle Specify "NRP" (non-removable pin) when ordering



#### **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





## **Special Situation Products**

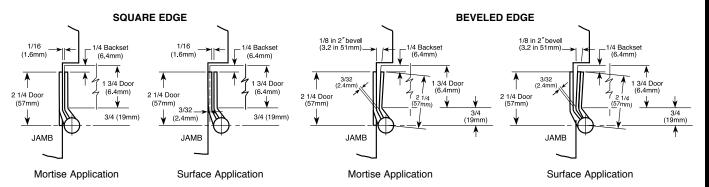
#### **Raised Barrel Hinges**

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

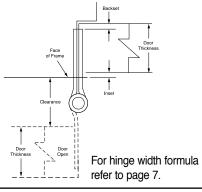
- For application where doors are set deep on a wide frame
- Frame leaf may be either surface mounted or mortised as illustrated in sketches below
- Available special for doors that must open 180 degrees
- Supply detail of door and frame condition
- For other hinge types than listed below, consult factory

#### Can be furnished on the following class numbers:

**RBCB179** RBCB191 **RBCB168 RBCB199** RBFBB191 RBFBB179 RBFBB168 RBFBB199 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 ½6" (1.6mm) clearance.



Flat back - not swaged





O





#### 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 installlation 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
- Should be used along with a junction box
- Can be furnished with hospital tips

**CECB179 CECB168 CECB191 CECB199** 5-Knuckle Concealed Bearings



CEFBB179 CEFBB168 CEFBB191 CEFBB199 5-Knuckle Exposed Bearings



**CECB1900R CECB1901R CECB1960R CECB1961R** 3-Knuckle Concealed Bearings



Not Handed



Not Handed



Handed Specify RH or LH



Flectrical	Ratings

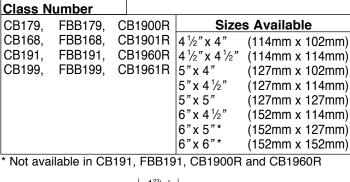
Liectrical Hattings					
Suffix	# Wires	Wire Gage	Volts (AC or DC)		
			6, 12, 24	48	
			Current		
-54	4	28AWG	1 amp/wire	5 milli-amp/wire	
-56	6	28AWG		5 milli-amp/wire	
-58	8	28AWG		5 milli-amp/wire	
-10	10	28AWG		5 milli-amp/wire	
-66*	6	2@24AWG		5 milli-amp/wire	
		4@28AWG	1 amp/wire	5 milli-amp/wire	

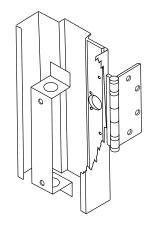
Inrush 15A for .05 second/wire

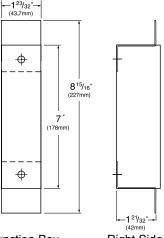
"CE" hinges are listed by UL at these ratings

#### JB2R – Junction Box

- Note: Install in middle hinge location
- Can be shop welded or field installed before frames are set
- Fits either 4½" (114mm) or 5" (127mm) size hinges







Right Side View





<sup>\*</sup> Not available in FBB168 and FBB199

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

Class	Number			
CB179,	FBB179,	CB1900R	CB1900R Sizes Available	
CB168,	FBB168,	CB1901R	4 ½ "x 4"	(114mm x 102mm)
CB191,	FBB191,	CB1960R	4 ½ x 4 ½ "	(114mm x 114mm)
CB199,	FBB199,	CB1961R	5"x 4"	(127mm x 102mm)
			5" x 4 ½"	(127mm x 114mm)
			5" x 5"	(127mm x 127mm)
			6" x 4 ½"	(152mm x 114mm)
			6"x 5"*	(152mm x 127mm)
			6"x 6"*	(152mm x 152mm)

<sup>\*</sup> Not available in CB191, FBB191 and CB1960

Hinges may be equipped with both conceald 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



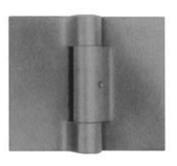
See Miscellaneous Door Hardware Section

#### **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

#### Olive Knuckle



See

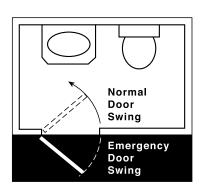
**Decorative Hinges** 

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



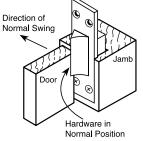


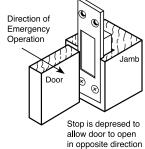
DAP-3 Double Acting Pivot



ES-1 Emergency Door Stop









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



DLS - 2 Double Lipped Strike For Center Hung Doors



#### 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

