### Catalog Number 128 September 2004



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## **Catalog Number 128**

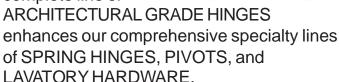
Quality and innovation have been Bommer trademarks since the day in 1876 when we started in business.

Indeed, it was Lorenz Bommer's patented improvement on the single-acting spring hinge which launched our company.

Four years later, in 1880, Lorenz Bommer, - together with his sons William and Anton, - developed the first double acting spring hinge. This sparked the creative spirit and drive which have been primarily responsible for Bommer's success.



Through the years, we have continued to expand our product offering: Bommer's complete line of



Bommer's long-standing devotion to quality, research, and new product development will keep Bommer's architectural grade products at the forefront of specifications for commercial construction, government projects, and special industrial applications worldwide.

Bommer also enjoys a reputation as one of the oldest existing manufacturers of Postal Service-approved mailboxes. Those carrying the Bommer trademark have become the standard for multiple-dwelling units such as apartment houses, condominiums, and dormitories and other institutional type facilities.

Complementing Bommer's commitment to provide the very best in product design and manufacturing is our sales and service team: a team whose mission is captured in five simple words: "Customer satisfaction is priority one".

When you want the best in architectural hardware and postal specialties, specify Bommer. While other companies are engaged in the search for excellence, at Bommer it continues to be an integral part of our operating philosophy and day-to-day corporate life.



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1075	SP-12	LB4391C LB4392C	SH-9 SH-9	BB5126	AH-27	8011	AH-11	0.00	011 10
1141	SP-13	LD43920	311-9	BB5200	AH-28	8012	AH-11		
1142 1514	SP-13 SH-18	5000	AH-6	BB5201	AH-28	LB8010	AH-12		
1514 1514-H	SH-18	5001	AH-6	BB5202 BB5204	AH-28 AH-29	LB8011 LB8012	AH-12 AH-12		
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15009	SP-10	BB5005	AH-10	5300	AH-31	LB8021	AH-14		
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2100	SP-8	BB5012	AH-12 AH-12			LB8046	AH-18		
2200	SP-8	BB5014	AH-13	7004	AH-23	8050	AH-19		
2400 2410	SP-7 SP-7	BB5015	AH-13	7006	AH-23	8051 8052	AH-19 AH-19		
2430	SP-7	BB5016 BB5020	AH-13 AH-14	7012	SP-3	LB8050	AH-20		
2440	SP-7	BB5021	AH-14	7022	SP-3	LB8051	AH-20		
2500	SP-7	BB5022	AH-14	7112	SP-3	LB8052	AH-20		
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2970 2980	SP-9 SP-9	BB5040	AH-16 AH-17	7314 7322	SP-5 SP-5	LB8066 8100	AH-22 AH-24		
2990	SP-9	BB5041	AH-17	7411	SP-6	8101	AH-24		
		BB5042	AH-17	7412	SP-6	8102	AH-24		
3023	SH-14	BB5044 BB5045	AH-18 AH-18	7512	SP-6	LB8100	AH-25		
3024 3029	SH-15 SH-13	BB5046	AH-18	7512-H	SP-6	LB8101 LB8102	AH-25 AH-25		
3044	SH-16	5050	AH-19	7801	SP-1	LB8104	AH-26		
		5051 5052	AH-19 AH-19	7802	SP-1	LB8105	AH-26		
4010	SH-10	BB5050	AH-20	7805	SP-1	LB8106	AH-26		
4020 4030	SH-10 SH-11	BB5051	AH-20	7811 7812	SP-1 SP-1	LB8200 LB8201	AH-28 AH-28		
4040	SH-11	BB5052 BB5060	AH-20 AH-21	7812 7813	SP-1 SP-1	LB8201 LB8202	AH-28 AH-28		
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LB4313 LB4321	SH-7	BB5064 BB5065	AH-22 AH-22	7821 7822	SP-1 SP-1				
LB4322	SH-7	BB5066	AH-22	7825	SP-1				
									$\bigcirc$ $\square$



## **Classification Of Finishes**

		~		
1	BHMA	NEAREST FORMER	FINIOUS PERCENTION	BASE
1	FINISH CODE	U.S. OR BOMMER* EQUIVALENT	FINISH DESCRIPTION	MATERIAL
		US P	Primed for Painting	Steel
1	601	US 1B	Bright Black Japanned	Steel
1	603	US 2G	Zinc Plated	Steel
	604	N/A	Zinc Plated and Dichromate Sealed	Steel
	605	US 3	Bright Brass, Clear Coated	Brass
	606	US 4	Satin Brass, Clear Coated	Brass
	609	US 5	Satin Brass, Blackened, Satin Relieved, Clear Coated	Brass
	610	US 7	Satin Brass, Blackened, Bright Relieved, Clear Coated	Brass
	611	US 9	Bright Bronze, Clear Coated	Brass/Bronze
	612	US 10	Satin Bronze, Clear Coated	Brass/Bronze
	613	US 10B	Satin Bronze, Dark Oxidized, Oil Rubbed	Brass/Bronze
1	616	US 10A/US 11	Satin Bronze, Blackened, Satin Relieved, Clear Coated	Brass/Bronze
	618	US 14	Bright Nickel Plated, Clear Coated	Brass/Bronze
	619	US 15	Satin Nickel Plated, Clear Coated	Brass/Bronze
	620	US 15A	Satin Nickel Plated, Blackened, Satin Relieved, Clear Coated	Brass/Bronze
	621	US 17A	Nickel Plated, Blackened, Relieved, Clear Coated	Brass/Bronze
	625	US 26	Bright Chromium Plated	Brass/Bronze
	626	US 26D	Satin Chromium Plated	Brass/Bronze
	629	US 32	Bright Stainless Steel	Stainless Steel 300 Series
	630	US 32D	Satin Stainless Steel	Stainless Steel 300 Series
1	632	US 3	Bright Brass Plated, Clear Coated	Steel
	633	US 4	Satin Brass Plated, Clear Coated	Steel
	636	US 7	Satin Brass Plated, Blackened, Bright Relieved, Clear Coated	Steel
	637	US 9	Bright Bronze Plated, Clear Coated	Steel
	638	US 5	Satin Brass Plated, Blackened, Satin Relieved, Clear Coated	Steel
	639	US 10	Satin Bronze Plated, Clear Coated	Steel
	640	US 10B	Satin Bronze Plated, Dark Oxidized, Oil Rubbed	Steel
	643	US 10A/US 11	Satin Bronze Plated, Blackened, Satin Relieved, Clear Coated	Steel
	645	US 14	Bright Nickel Plated, Clear Coated	Steel
	646	US 15	Satin Nickel Plated, Clear Coated	Steel
	647	US 15A	Satin Nickel Plated, Blackened, Satin Relieved, Clear Coated	Steel
1	648	US 17A	Nickel Plated, Blackened, Relieved, Clear Coated	Steel
	651	US 26	Bright Chromium Plated	Steel
	652	US 26D	Satin Chromium Plated	Steel
	332	US 3/US 4	Bright Brass Plated, Clear Coated - Not Polished	Steel
	372	FL 2	Aluminum Lacquer	Steel
	383	FE 3	Dark Bronze Enamel	Steel

#### **General Information**



#### **DETERMINING HINGE WEIGHT**

To determine the correct weight of hinge, it is necessary to know the size and material of the door. The following chart lists examples of approximate weights (per square foot) of various material doors. Please use this for <u>rough estimating only</u> and be sure to verify the actual weight with the door manufacturer if there is any question. The weight of the hardware being applied should also be factored into the total door weight.

				POUNDS	PER SQU	ARE FOOT
	Door Thickness	1 3/8"	1 3/4"	2"	2 1/4"	2 1/2"
Door Material						
Wood, Hollow Core		2.0#	2.5#			
Wood, Lumber Core		3.5#	4.5#		5.6#	
Wood, Particle Core		4.0#	5.0#			
Wood, Oak-Solid Core		6.0#	7.3#	8.1#	9.2#	10.2#
Wood, Mineral Core			4.0#			
Wood, Plastic Laminate-	Particle Core		5.5#			
Hollow Metal, 18 ga.		4.3#	4.6#			
Hollow Metal, 16 ga.		5.4#	5.8#			
Hollow Metal, 14 ga.		7.0#	7.3#			
Hollow Metal, 12 ga.		9.8#	10.4#			
Wood + 1/8" Lead Lining			12.4#			
Wood + 1/4" Lead Lining			19.8#			
Wood + 1/2" Lead Lining			34.6#			
Acoustical Core			8.8#			

#### FREQUENCY OF DOOR USE

It is also necessary to know the frequency of door use when determining the correct weight of hinge. The following chart lists examples of various types of doors and their estimated frequency of use. NOTE: Ball bearing hinges should always be provided for doors equipped with door closers.

Type of Building and Door	Daily	Yearly	Frequency	Hinge Weight
Department Store Entrance	5,000	1,825,000	High	Heavy
Office Building Entrance	4,000	1,460,000	High	Heavy
Hospital Corridor and Surgical Doors	3,000	1,095,000	High	Heavy
School Entrance	1,250	456,250	High	Heavy
School Toilet Room	1,250	456,250	High	Heavy
School Corridor	100	35,500	Average	Standard w/ Ball
				Bearings
Office Building Corridor	75	27,375	Average	Standard w/ Ball
				Bearings
Store Toilet Room	60	21,900	Average	Standard w/ Ball
				Bearings
Storage Room	50	18,250	Average	Standard w/ Ball
				Bearings
Residential Entrance	35	12,775	Low	Standard
Residential Toilet	25	9,125	Low	Standard
Residential Interior	10	3,650	Low	Standard

# Bommer over 125 years of quality

### **General Information**

#### **DETERMINING HINGE HEIGHT**

To determine the correct hinge height, it is necessary to know the door's width, height, thickness, weight and frequency of use. The following chart lists some examples of hinge height as it relates to the door thickness and width.

NOTE: Heavy doors and doors expected to receive high frequency service should be specified with heavy weight hinges.

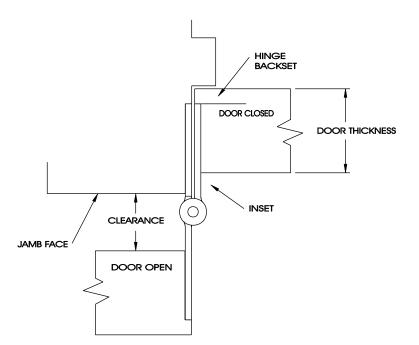
Thickness of Door	Width of Door	Hinge Height
1.375" ( 1 3/8" )	to 32"	3.5" ( 3 1/2" )
1.375" ( 1 3/8" )	32" to 36"	4"
1.750" ( 1 3/4" )	to 36"	4.5" ( 4 1/2" )
1.750" ( 1 3/4" )	36" to 48"	5"
1.750" ( 1 3/4" )	over 48"	6"
1.750" ( 1 3/4" )	to 42"	5" Heavy Weight

NOTE: A good way to determine the number of hinges necessary is to follow this guideline (from NFPA 80, Table 2-8A): "Doors up to 60" in height shall be provided with two hinges, and an additional hinge for each 30 inches of height or fraction thereof."

Doors which are unusually wide (over 37") and heavy and those receiving high frequency use may require additional hinges.

#### **DETERMINING HINGE WIDTH**

To determine the correct hinge width, it is necessary to know the door thickness, hinge backset (distance from back end of hinge to edge of inside door surface) and clearance required (necessary distance between the jamb face and door when opened, including trim).



Doors up to 2.25" have .250" backset

Doors over 2.25" have .375" backset

NOTE: When the width of a hinge is greater than the height, it is termed a "Wide Throw" hinge. This hinge is used when additional clearance (throw) is necessary to clear trim or wall conditions.

## **General Information**



#### **DETERMINING HINGE WIDTH**

The following chart indicates the clearance provided by standard Full Mortise hinges with no interfering trim or wall conditions.

Thickness of Door	Hinge Width	Maximum Clearance Provided
1.375" ( 1 3/8" )	3.5" ( 3 1/2" )	1.250" ( 1 1/4" )
1.375" ( 1 3/8" )	4"	1.750" ( 1 3/4" )
1.750" ( 1 3/4" )	4"	1"
1.750" ( 1 3/4" )	4.5" ( 4 1/2" )	1.500" ( 1 1/2" )
1.750" ( 1 3/4" )	5"	2"
1.750" ( 1 3/4" )	6"	3"
2.000" ( 2" )	4.5" ( 4 1/2" )	1"
2.000" ( 2" )	5"	1.500" ( 1 1/2" )
2.000" ( 2" )	6"	2.500" ( 2 1/2" )
2.250" ( 2 1/4" )	5"	1"
2.250" ( 2 1/4" )	6"	2"

The following formula may be used to determine the MINIMUM hinge width necessary: Door Thickness

- Backset
- x 2
- + Clearance Required
- + Inset (if any)

NOTE: Standard 4.5" wide hinge installed on 1.750" doors will clear 1.5" trim.

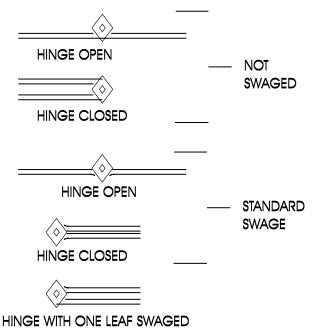
The hinge width of Half Mortise, Full Surface and Half Surface hinges is standard, depending on the hinge height. In these hinge types, the amount of clearance available is determined by the amount of offset, not by the hinge width ( see catalog pages for offsets ).

<sup>=</sup> Hinge Width (if not a standard width, use the next larger standard width

## **General Information**



#### HINGE SWAGING



Swaging is a slight offset of the hinge leaf at the barrel which permits the leaves to close to parallel position as the door closes.

Standard swaging of standard weight and heavy weight full mortise hinges when closed to the parallel position provides a 1/16" clearance between leaves.

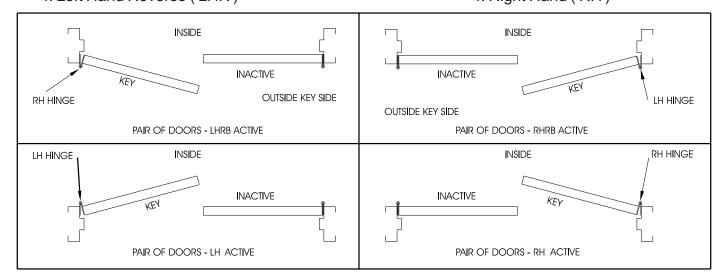
NOTE A - When both leaves are not swaged, hinges are slightly less in width.

NOTE B - When one leaf only is swaged, the leaf not swaged is approximately 1/16" shorter. EXCEPTION: On hinges for metal doors and metal frames, both leaves must be the same width - specify on order "leaves must be equal".

HINGE WITH ONE LEAF SWAGED FLAT

#### HINGE HANDING

In some instances (ie. Anchor Hinges), it may be necessary to specify "handed" hinges. The following illustration shows how to determine if the hinge should be Right Hand (RH) or Left Hand (LH). Remember, doors are handed four (4) ways, while hinges are handed two (2) ways.





#### NOTES:

- Product and ANSI numbers listed are for comparison only.
   Additional information may be required for ANCHOR and ELECTRIC hinges before a comparison can be made.
- 3. An " \* " prefixing a competitor's number indicates stainless steel material.
- 4. Please contact the factory for any product(s) not shown in this chart.

BOMMER	HAGER	STANLEY	McKINNEY	ANSI
5000	1279	F179	T2714	A8133
5001	1191	F191	T2314	A2133
5002	*1191	*F191	*T2314	A5133
BB5000	BB1279	FBB179	TA2714	A8112
BB5001	BB1191	FBB191	TA2314	A2112
BB5002	*BB1191	*FBB191	*TA2314	A5112
BB5004	BB1168	FBB168	T4A3786	A8111
BB5005	BB1199	FBB199	T4A3386	A2111
BB5006	*BB1199	*FBB199	*T4A3386	A5111
5010	WT1279	F179WT		A8133
5011	WT1191	F191WT		A2133
5012	*WT1191	*F191WT		A5133
BB5010	WTBB1279	FBB179WT	TA2798	A8112
BB5011	WTBB1191	FBB191WT		A2112
BB5012	*WTBB1191	*FBB191WT		A5112
BB5014	WTBB1168	FBB168WT	T4A3786	A8111
BB5015	WTBB1199	FBB199WT	T4A3386	A2111
BB5016	*WTBB1199	*FBB199WT	*T4A3386	A5111
BB5020 ( SQ.)	BB1260	FBB248	TA2895	A8122
BB5020 ( BEV.)	BB1261	FBB258	TA4895	A8122
BB5021 ( SQ.)				A2122
BB5021 ( BEV.)				A2122
BB5022 ( SQ.)				A5122
BB5022 ( BEV.)				A5122
BB5024 ( SQ.)	BB1262	FBB268	T4A3795	A8121
BB5024 ( BEV.)	BB1263	FBB278	T4A4795	A8121
BB5025 ( SQ.)				A2121
BB5025 ( BEV.)				A2121
BB5026 ( SQ.)				A5121
BB5026 ( BEV.)				A5121
BB5034 ( SQ. )	BB1160, BB1162, BB1165	FBB211		A8551
BB5034 ( BEV. )	BB1164, BB1167	FBB211		A8551
BB5035 ( SQ. )	BB1190, BB1192, BB1196	FBB221		A2551
BB5035 ( BEV. )	BB1195, BB1197	FBB221		A2551
BB5036 ( SQ. )	*BB1190, BB1192, BB1196	*FBB221		A5551
BB5036 ( BEV. )	*BB1195, BB1197	*FBB221		A5551
BB5040	RBB / RBS-BB1279	RB-FBB179	RBMTA-TB2714	A8111
BB5041	RBB / RBS-BB1191	RB-FBB191	TOWN TO LET THE	A2111
BB5042	*RBB / RBS-BB1191	*RB-FBB191		A5111
BB5044	RBB / RBS-BB1168	RB-FBB168	RBMT4A-TB3786	A8111
BB5045	RBB / RBS-BB1199	RB-FBB199	1.00100	A2111
BB5046	*RBB / RBS-BB1199	*RB-FBB199	+	A5111
5050 ( 1 LEAF TAPPED )	1277	170-1 00 199		A8133
5050 ( BOTH LEAVES TAPPED )	1278			A8133
5051 (1 LEAF TAPPED)		+	+	A2133
` ;	1577	+	+	
5051 (BOTH LEAVES TAPPED)	1578			A2133



тм	T	T	T	T
BOMMER	HAGER	STANLEY	McKINNEY	ANSI
5052 ( 1 LEAF TAPPED )				A5133
5052 (BOTH LEAVES TAPPED)				A5133
BB5050 ( 1 LEAF TAPPED )	BB1277	FBB179 (B)	TA2714 (2)	A8112
, , , , , , , , , , , , , , , , , , ,	BB1278	FBB179 ( A )	TA2714 (1)	A8112
BB5051 ( 1 LEAF TAPPED )	BB1577	FBB191 (B)	TA2314 (2)	A2112
BB5051 (BOTH LEAVES TAPPED)	BB1578	FBB191 (A)	TA2314 (1)	A2112
BB5052 ( 1 LEAF TAPPED )	*BB1577			A5112
BB5052 (BOTH LEAVES TAPPED)	*BB1578			A5112
5100	1129	F167	T2774	A8233
5101				A2233
5102				A5233
BB5100	BB1129	FBB167	TA2774	A8212
BB5101	BB1109	FBB108	TA3374	A2212
BB5102	*BB1109	*FBB108	*TA3374	A5212
BB5104	BB1138	FBB138	T4A3784	A8211
BB5105	BB2098	FBB98	T4A3384	A2211
BB5106	*BB2098	*FBB98	*T4A3384	A5211
BB5124 ( SQ.)	BB1264	FBB264	T4A3789	A8221
BB5124 ( BEV.)	BB1265	FBB274	T4A4789	A8221
BB5125 ( SQ.)				A2221
BB5125 ( BEV.)				A2221
BB5126 ( SQ.)				A5221
BB5126 ( BEV.)				A5221
BB5200	BB2171	FBB171	TA2771	A8312
BB5201	BB2110	FBB110		A2312
BB5202	*BB2110	*FBB110		A5312
BB5204	BB2169	FBB169	T4A3781	A8311
BB5205	BB2109	FBB109	T4A3381	A2311
BB5206	*BB2109	*FBB109	*T4A3381	A5311
BB5224	BB1266	FBB266	T4A3795	A8321
BB5225	551200	1 22200	1 17 107 00	A2321
BB5226				A5321
5300	1173	F173	T2772	A8433
5301	1170	1 173	12772	A2433
5302				A5433
BB5300	BB1173	FBB173	TA2772	A8412
BB5301	BB2112	FBB112	IAZITZ	A2412
BB5302	*BB2112	*FBB112		A5412
BB5304	BB1163	FBB163	T4A3782	A8411
BB5305	BB2113	FBB113	T4A3782	A2411
BB5306	*BB2113	*FBB113	*T4A3382	A5411
BB5324 BB5325	BB1270	FBB269	T4A3796	A8421 A2421
BB5326	DD4070 V ETW 4.0.0	OFFDD470.54.50.50	TA 074 4 C C 4 C C	A5421
BB5060 ( 4,6,8 WIRE )	BB1279 X ETW-4,6,8	CEFBB179-54,56,58	TA2714CC-4,6,8	
BB5060 (4,6,8 WIRE MONITOR)	BB1279 X ETM-4,6,8	CECSFBB179-54,56,58	TA 074 48 47 4	
BB5060 ( MONITOR ONLY )	BB1279 X ETM	CSFBB179	TA2714MM	
BB5064 ( 4,6,8 WIRE )	BB1168 X ETW-4,6,8	CEFBB168-54,56,58	T4A3786CC-4,6,8	
BB5064 ( 4,6,8 WIRE MONITOR )	BB1168 X ETM-4,6,8	CECSFBB168-54,56,58		
BB5064 ( MONITOR ONLY )	BB1168 X ETM	CSFBB168	T4A3786MM	I



BOMMER	HAGER	STANLEY	McKINNEY	ANSI
8000	700		T714	A8133
8001	800			A2133
8002	*800			A5133
LB8000	AB700		TA714	A8112
LB8001	AB800		TA314	A2112
LB8002	*AB800		*TA314	A5112
LB8004	AB750		T4A786	A8111
LB8005	AB850		T4A386	A2111
LB8006	*AB850		*T4A386	A5111
8010	WT700			A8133
8011	WT800			A2133
8012	*WT800			A5133
LB8010	WTAB700			A8112
LB8011	WTAB800			A2112
LB8012	*WTAB800			A5112
LB8014	WTAB750			A8111
LB8015	WTAB850			A2111
LB8016	*WTAB850			A5111
LB8020 ( SQ.)	AB7001			A8122
LB8020 ( BEV.)	AB7002			A8122
LB8021 ( SQ.)	1.2.332			A2122
LB8021 ( BEV.)	<u> </u>			A2122
LB8022 ( SQ.)				A5122
LB8022 ( BEV.)	+			A5122
LB8024 ( SQ.)	AB7501		T4A795	A8121
LB8024 ( BEV.)	AB7502		T4A5795	A8121
LB8025 ( SQ.)				A2121
LB8025 ( BEV.)				A2121
LB8026 ( SQ.)	+			A5121
LB8026 ( BEV.)	<u> </u>			A5121
LB8034 ( SQ. )	AB7505, AB7506, AB7507		TA792	A8551
LB8034 ( BEV. )	AB7508, AB7509		17.17.02	A8551
LB8035 ( SQ. )	AB8505, AB8506, AB8507		TA392	A2551
LB8035 ( BEV. )	AB8508, AB8509		17 1002	A2551
LB8036 ( SQ. )	*AB8505, AB8506, AB8507		*TA392	A5551
LB8036 ( BEV. )	*AB8508, AB8509		17.002	A5551
LB8040	RBB / RBS-AB700	+	+	A8111
LB8041	RBB / RBS-AB800			A2111
LB8042	*RBB / RBS-AB800			A5111
LB8044	RBB / RBS-AB750	+	+	A8111
LB8045	RBB / RBS-AB850			A2111
LB8046	*RBB / RBS-AB850		+	A5111
8050 ( 1 LEAF TAPPED )	1,007,100-7,0000		+	A8133
8050 ( BOTH LEAVES TAPPED )	+	+	+	A8133
8051 (1 LEAF TAPPED)	+	+		A2133
	+			_
8051 (BOTH LEAVES TAPPED )				A2133



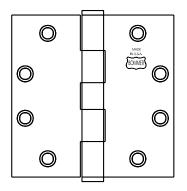
ТМ		1		Ī
BOMMER	HAGER	STANLEY	McKINNEY	ANSI
8052(1 LEAF TAPPED)				A5133
8052 (BOTH LEAVES TAPPED )				A5133
LB8050 ( 1 LEAF TAPPED )				A8112
LB8050 ( BOTH LEAVES TAPPED )				A8112
LB8051 ( 1 LEAF TAPPED )				A2112
LB8051 ( BOTH LEAVES TAPPED )				A2112
LB8052 ( 1 LEAF TAPPED )				A5112
LB8052 ( BOTH LEAVES TAPPED )				A5112
8100				A8233
8101				A2233
8102				A5233
LB8100	AB701		TA774	A8212
LB8101	AB801		TA374	A2212
LB8102	*AB801		*TA374	A5212
LB8104	AB751		TA784	A8211
LB8105	AB851		TA384	A2211
LB8106	*AB851		*TA384	A5211
LB8124 ( SQ.)	AB7511		TA789	A8221
LB8124 ( BEV.)	AB7512		TA5789	A8221
LB8125 ( SQ.)				A2221
LB8125 ( BEV.)				A2221
LB8126 ( SQ.)				A5221
LB8126 ( BEV.)				A5221
LB8200	AB702		TA771	A8312
LB8201	AB802		TA371	A2312
LB8202	*AB802		*TA371	A5312
LB8204	AB752		TA781	A8311
LB8205	AB852		TA381	A2311
LB8206	*AB852		*TA381	A5311
LB8224	AB7523		TA797	A8321
LB8225				A2321
LB8226				A5321
8300				A8433
8301				A2433
8302				A5433
LB8300	AB703		TA772	A8412
LB8301	AB803		TA372	A2412
LB8302	*AB803		*TA372	A5412
LB8304	AB753		TA782	A8411
LB8305	AB853		TA382	A2411
LB8306	*AB853	+	*TA382	A5411
LB8324	AB7534	+	TA796	A8421
LB8325	, ND / OOT	+	17.17.00	A2421
LB8326			1	A5421
LB8060 ( 4,6,8 WIRE )	AB700 X ETW-4,6,8		TA2714CC-4,6,8	7.0421
LB8060 ( 4,6,8 WIRE MONITOR )	AB700 X ETW-4,6,8	+	1/1/2/ 1400=4,0,0	+
LB8060 ( MONITOR ONLY )	AB700 X ETM		TR71/MM/	+
			TB714MM T4B786CC-4,6,8	+
LB8064 ( 4,6,8 WIRE )	AB750 X ETW-4,6,8		140/0000-4,0,8	
LB8064 ( 4,6,8 WIRE MONITOR )	AB750 X ETM-4,6,8		T4D706N4N4	
LB8064 ( MONITOR ONLY )	AB750 X ETM		T4B786MM	



## **Architectural Grade Hinges**

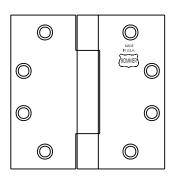
Bommer Industries offers two (2) basic series of BHMA Certified Architectural Grade Hinges

#### **5000 SERIES**



5000 Series - Five Knuckle, with Button Tips 8000 Series - Three Knuckle, with Flush Tips

## **8000 SERIES**



Both the 5000 and 8000 series hinges are available in a wide variety of sizes, weights, types and 20 Architectural finishes. Please contact the factory for any architectural requirement not shown in this catalog.

#### **BEARINGS**

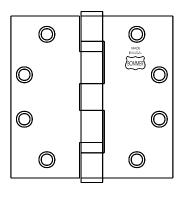
BALL BEARING (BB) Hi

High grade, chrome alloy steel ball bearings are engineered for dependable and permanent service.

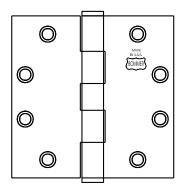
LUBE BEARING (LB)

This special nylon bearing material is maintenance free and requires little to no oil or grease.

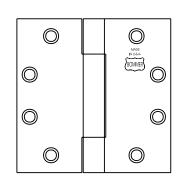
#### **BB5000 SERIES**



### LB5000 SERIES



### LB8000 SERIES



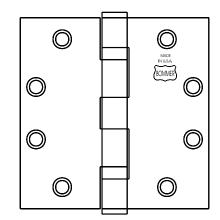


## **Architectural Grade Hinges**

#### **HINGE TYPES**

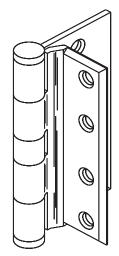
**FULL MORTISE** 

One leaf is MORTISED in the DOOR edge, the other leaf is MORTISED in the JAMB. This is the most common hinge application.



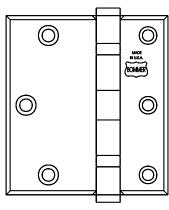
HALF MORTISE

One leaf is MORTISED in the DOOR edge, the other leaf is applied to the SURFACE (face) of the JAMB. Used when conditions prevent the jamb leaf from being mortised (ie. channel iron jamb).



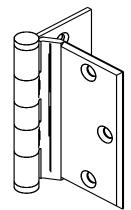
**FULL SURFACE** 

One leaf is applied to the SURFACE (face) of the DOOR, the other leaf is applied to the SURFACE (face) of the JAMB. Used when conditions prevent both hinge leaves from being mortised (ie. kalamein or mineral core door with channel iron jamb).



HALF SURFACE

One leaf is applied to the SURFACE (face) of the DOOR, the other leaf is MORTISED in the JAMB. Used when conditions prevent the door leaf from being mortised (ie. kalamein or mineral core door).





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## **Architectural Grade Hinges**

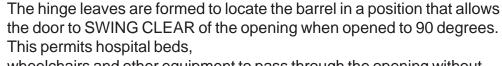
#### **HINGE STYLES**

WIDE THROW The WIDTH of the hinge is increased (ie. 4.5" x 6"), moving the barrel away from the face of the door. Used when 0 0 additional THROW is required to clear trim or wall conditions. **6** 

Only available in Full Mortise type.

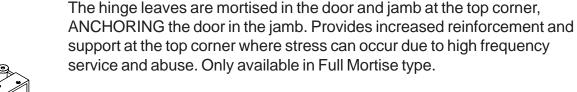
## SWING CLEAR

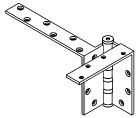
0



wheelchairs and other equipment to pass through the opening without hitting the hinge edge of the door.

#### **ANCHOR**



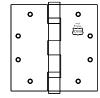


#### RAISED BARREL

Both hinge leaves are offset to RAISE the BARREL off the jamb, allowing the door to swing without the knuckles

rubbing on the jamb. Used when a door is set deep into a wide frame, prohibiting the use of standard Full Mortise hinges. Only available in Full Mortise type.

#### SLIP IN



One or both hinge leaves are formed to "SLIP IN" a slot(s) provided in the door and/or jamb. Normally used with aluminum doors and jambs.



## **Architectural Grade Hinges**

## **SECURITY OPTIONS**

NON-REMOVABLE PIN

A threaded set screw located in the barrel is tightened down into a groove in the hinge pin. This prevents the hinge pin from being removed when the door is closed. NRP's are available with Full Mortise, Half Mortise, Full Surface and Half Surface hinges (Designate "N").

SECURITY STUD

A stud is attached to one leaf of the hinge, and projects into a hole in the other leaf when the door is closed and the leaves are parallel. This helps maintain the door's security even if the hinge pin is removed. Security Studs are available with Full Mortise hinges only (Designate "S").

NON-REMOVABLE PIN w/ SECURITY STUD

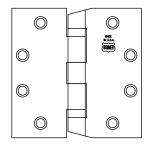
Both a Non-Removable Pin and a Security Stud are incorporated in a Full Mortise hinge (Designate "A").

MAXIMUM SECURITY STUD

Studs are attached to the back of both hinge leaves, and project into holes in the hinge reinforcing plates in the door and jamb. These studs secure the leaves to the door and frame and are often used in combination with hospital tip hinges in a security areas and institutions (Designate "M").

#### TIP AND PIN OPTIONS

HOSPITAL TIP



The tips of the barrel are "rounded" to help prevent hanging objects on the hinge. The hinge pin cannot be removed. Hospital tips are used in medical areas to facilitate cleaning and to prevent tampering and/or injury in security areas and mental institutions ( Designate "H").

DECORATIVE TIPS

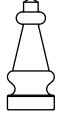
Decorative tips are available. Please contact the factory with your requirements



Designate "T"



**ACORN TIP** Designate "Y"



STEEPLE TIP Designate "W"

STAINLESS STEEL PIN Brass and stainless steel hinges are furnished with stainless steel pins. Steel hinges can also be supplied with stainless steel pins upon request and at an additional charge (Designate "J").

**BRASS PIN** 

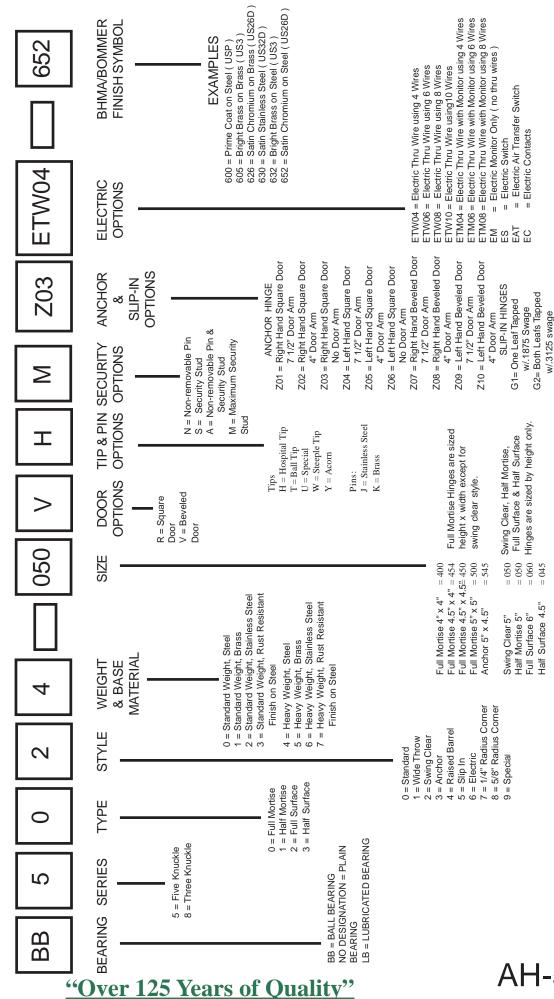
Brass pins can be supplied at an additional charge ( Designate " K ").

AH-4

"Over 125 Years of Quality"

All hinge numbers begin with the TYPE OF BEARING and follow through, ending BOMMER'S numbering system is easy to understand. Product numbers are built from LEFT to RIGHT with each character relating to a specific hinge feature. with the BHMA or BOMMER FINISH SYMBOL.

Bommer over 125 years of quality





## Full Mortise Hinges STANDARD WEIGHT - PLAIN BEARING

For medium weight doors / low frequency

**5000** STEEL

with steel pin ANSI A8133

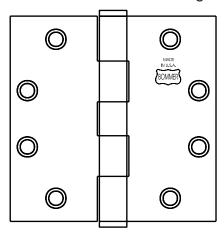
**5001** BRASS

with stainless steel pin ANSI A2133

5002 STAINLESS STEEL

with stainless steel pin ANSIA5133

- TEMPLATE
- PLAIN BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



SIZE O	PEN	GAUGE	SCREV	SCREW SIZE		QUA	NTITY
HEIGHT &	WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
3.5 X 3	(353)	.123	10-24 x 1/2	10 x 1	6	3 ea.	48 ea.
3.5 X 3.5	(350)	.123	10-24 x 1/2	10 x 1	6	3 ea.	48 ea.
4 X 4	(400)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4	(454)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4	(504)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	(545)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.

#### **STANDARD WEIGHT - PLAIN BEARING**

For medium weight doors / low frequency

8000 STEEL

with steel pin ANSI A8133

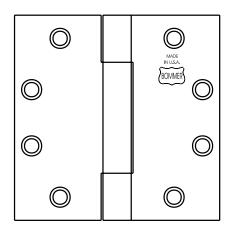
8001 BRASS

with stainless steel pin ANSI A2133

8002 STAINLESS STEEL

with stainless steel pin ANSI A5133

- TEMPLATE
- PLAIN BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



SIZE OPEN	HEIGHT		SCREW SIZE		NUMBER	QUAI	NTITY
& WIDTH		GAUGE	MACHINE WOOD		OF HOLES	BOX	CASE
4 X 4	(400)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4	(454)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4	(504)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	(545)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.



BB5000 STEEL

with steel pin ANSI A8112

BB5001 BRASS

with stainless steel pin ANSIA2112

BB5002 STAINLESS STEEL

with stainless steel pin ANSI A5112

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG

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0		O MADE
		NUSA BOMMER

SIZE OI	PEN	GAUGE	SCREV	SCREW SIZE		QUAI	YTITY
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
3.5 X 3	(353)	.123	10-24 x 1/2	10 x 1	6	3 ea.	48 ea.
3.5 X 3.5	(350)	.123	10-24 x 1/2	10 x 1	6	3 ea.	48 ea.
4 X 4	(400)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4	(454)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4	(504)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	(545)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.

#### **STANDARD WEIGHT - LUBE BEARING**

For medium weight doors / average frequency

**Full Mortise Hinges** 

STANDARD WEIGHT - BALL BEARING
For medium weight doors / average frequency

LB8000 STEEL

with steel pin ANSI A8112

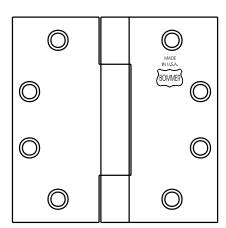
LB8001 BRASS

with stainless steel pin ANSI A2112

LB8002 STAINLESS STEEL

with stainless steel pin ANSI A5112

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



SIZE OPEN HEIGHT		SCREW SIZE		NUMBER	QUAI	YTITV	
& WIDTH		GAUGE	MACHINE WOOD		OF HOLES	BOX	CASE
4 X 4	(400)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4	(454)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4	(504)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	(545)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.



## **Full Mortise Hinges** STANDARD WEIGHT - LUBE BEARING For medium weight doors / average frequency

LB5000 STEEL

with steel pin **ANSI A8112** 

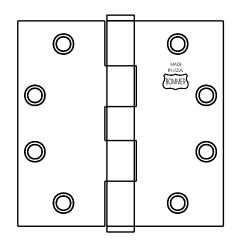
LB5001 BRASS

with stainless steel pin **ANSI A2112** 

LB5002 STAINLESS STEEL

with stainless steel pin **ANSI A5112** 

- TEMPLATE
- LUIBE BEARING
- FIVE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- BUTTON TIP PIN & PLUG



SIZE C	PEN	GAUGE	SCREW SIZE		NUMBER	QUAI	NTITY
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4	(454)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4	(504)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	(545)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.



## Full Mortise Hinges HEAVY WEIGHT - LUBE BEARING

For heavy weight doors / high frequency

LB5004 STEEL

with steel pin ANSI A8111

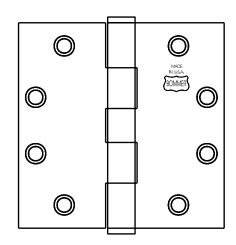
LB5005 BRASS

with stainless steel pin ANSI A2111

LB5006 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- LUBE BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



SIZE	SIZE OPEN		SCREV	V SIZE	NUMBER	QUAI	NTITY
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4	(454)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4.5 X 4.5	(450)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.



#### BB5004 STEEL

with steel pin **ANSI A8111** 

#### BB5005 BRASS

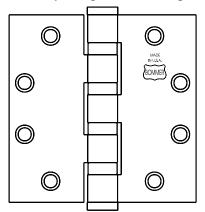
with stainless steel pin **ANSI A2111** 

#### BB5006 STAINLESS STEEL

with stainless steel pin **ANSI A5111** 

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- BUTTON TIP PIN & PLUG

	Full Mo	ortise	<b>Hinges</b>
HEAVY V	VEIGHT -	BALL	<b>BEARING</b>
For hea	avy weight o	doors / hig	gh frequency



SIZE OI	PEN	GAUGE	SCREW	SCREW SIZE		QUA	NTITY
HEIGHT &	WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4	(454)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4.5 X 4.5	(450)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 4	(504)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 4.5	( 545 )	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
6 X 4.5	(645)	.203	1/4-20 x 1/2	14 x 1 1/2	10	3 ea.	18 ea.
6 X 5	(605)	.203	1/4-20 x 1/2	14 x 1 1/2	10	3 ea.	18 ea.
6 X 6	(600)	.203	1/4-20 x 1/2	14 x 1 1/2	10	3 ea.	18 ea.

## **HEAVY WEIGHT - LUBE BEARING**

For heavy weight doors / high frequency

### LB8004 STEEL

with steel pin **ANSI A8111** 

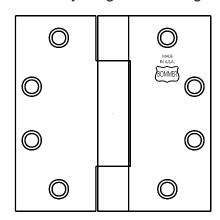
#### LB8005 BRASS

with stainless steel pin **ANSI A2111** 

#### LB8006 STAINLESS STEEL

with stainless steel pin **ANSI A5111** 

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- FLUSH TIP PIN & PLUG



SIZE O	PEN	GAUGE	SCREW SIZE		NUMBER	QUA	NTITY
HEIGHT &	HEIGHT & WIDTH		MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4	(454)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4.5 X 4.5	(450)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 4	(504)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 4.5	(545)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 5	(500)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
6 X 4.5	(645)	.203	1/4-20 x 1/2	14 x 1 1/2	10	3 ea.	18 ea.
6 X 5	(605)	.203	1/4-20 x 1/2	14 x 1 1/2	10	3 ea.	18 ea.
6 X 6	(600)	.203	1/4-20 x 1/2	14 x 1 1/2	10	3 ea.	18 ea.



## **Full Mortise Hinges STANDARD WEIGHT - PLAIN BEARING - WIDE THROW**

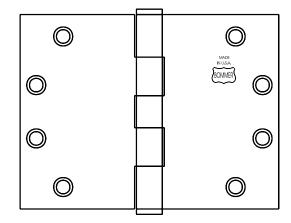
For medium weight doors / low frequency, used when additional throw is needed to clear trim or

For medium weight doors / low

frequency, used when additional throw is needed to clear trim or

wall conditions.

## **5010** STEEL wall conditions.



with steel pin **ANSI A8133** 

**5011** BRASS

with stainless steel pin **ANSI A2133** 

5012 STAINLESS STEEL

with stainless steel pin ANSI A5133

- TEMPLATE
- PLAIN BEARING
- FIVE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- BUTTON TIP PIN & PLUG

SIZE OPEN		GAUGE	SCREV	V SIZE	NUMBER	QUA	NTITY
HEIGHT 8	& WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
3.5 X 5	(355)	.123	10-24 x 1/2	10 x 1	6	3 ea.	36 ea.
3.5 X 6	(356)	.123	10-24 x 1/2	10 x 1	6	3 ea.	36 ea.
4 X 5	( 405 )	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4 X 6	(406)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4 X 7	(407)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 5	( 455 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 6	(456)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 7	( 457 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 8	( 458 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 6	(506)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 7	(507)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 8	( 508 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.

#### STANDARD WEIGHT - PLAIN BEARING - WIDE THROW

8010 STEEL with steel pin ANSI A8112

**8011** BRASS

with stainless steel pin **ANSI A2112** 

8012 STAINLESS STEEL

with stainless steel pin **ANSI A5112** 

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- TEMPLATE
- PLAIN BEARING
- THREE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- FLUSH TIP PIN & PLUG

SIZE OPEN		GAUGE	SCREW SIZE		NUMBER	QUA	NTITY
HEIGHT 8	& WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 5	( 455 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 6	(456)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 7	( 457 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 8	( 458 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 6	( 506 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 7	(507)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 8	( 508 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.



#### STANDARD WEIGHT - BALL BEARING - WIDE THROW

For medium weight doors / average frequency, used when additional

throw is needed to clear trim or wall

conditions

BB5010 STEEL

with steel pin **ANSI A8112** 

BB5011 BRASS

with stainless steel pin **ANSI A2112** 

BB5012 STAINLESS STEEL

with stainless steel pin **ANSI A5112** 

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- BUTTON TIP PIN & PLUG

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	NUSA. BOMMER

SIZE C	DPEN	GAUGE	SCREV	V SIZE	NUMBER	QUA	YTITN
HEIGHT 8	& WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
3.5 X 5	(355)	.123	10-24 x 1/2	10 x 1	6	3 ea.	36 ea.
3.5 X 6	(356)	.123	10-24 x 1/2	10 x 1	6	3 ea.	36 ea.
4 X 5	( 405 )	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4 X 6	(406)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
4 X 7	(407)	.130	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 5	( 455 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 6	( 456 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 7	( 457 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 8	( 458 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 6	(506)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 7	(507)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 8	( 508 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.

#### **STANDARD WEIGHT - LUBE BEARING - WIDE THROW**

LB8010 STEEL

with steel pin **ANSI A8112** 

LB8011 BRASS

with stainless steel pin **ANSI A2112** 

LB8012 STAINLESS STEEL

with stainless steel pin **ANSI A5112** 

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING **REMOVABLE PIN**
- FLUSH TIP PIN & PLUG

For medium weight doors / average frequency, used when additional throw is needed to clear trim or wall conditions	© ©	MADE IN U.S.A. BOMMER O
	0	0
SS STEEL	0	0

SIZE OPEN		GAUGE	SCREV	V SIZE	NUMBER	QUA	NTITY
HEIGHT 8	k WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 5	(455)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 6	(456)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 7	( 457 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 8	( 458 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 6	(506)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 7	(507)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 8	(508)	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.



#### **HEAVY WEIGHT - BALL BEARING - WIDE THROW**

BB5014 STEEL

with steel pin ANSI A8111

BB5015 BRASS

with stainless steel pin ANSI A2111

BB5016 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG

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0	0
0	0

SIZE OPEN		GAUGE	SCREW	SCREW SIZE		QUA	NTITY
HEIGHT	* WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 5	(455)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 6	(456)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 7	(457)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 8	( 458 )	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 6	(506)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 7	(507)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 8	( 508 )	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.

#### **HEAVY WEIGHT - LUBE BEARING - WIDE THROW**

LB8014 STEEL

with steel pin ANSI A8111

LB8015 BRASS

with stainless steel pin ANSI A2111

LB8016 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG

For heavy weight doors / high frequency, used when additional throw is needed to clear trim or wall conditions

For heavy weight doors / high

wall conditions

frequency, used when additional throw is needed to clear trim or

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	NUSA, BOMMER
0	0

SIZE OPEN		GAUGE	SCREW	SCREW SIZE		QUA	NTITY
HEIGHT 8	& WIDTH	GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 5	(455)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
4.5 X 6	( 456 )	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 7	( 457 )	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
4.5 X 8	( 458 )	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 6	(506)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 7	(507)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.
5 X 8	(508)	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	18 ea.



## Full Mortise Hinges STANDARD WEIGHT - BALL BEARING - SWING CLEAR

BB5020 STEEL

with steel pin ANSI A8122

BB5021 BRASS

with stainless steel pin ANSIA2122

BB5022 STAINLESS

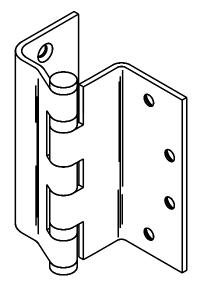
STEEL

with stainless steel pin ANSI A5122

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- USE ON 1.75" DOOR MAXIMUM
- SPECIFY DOOR EDGE SQUARE OR BEVELED

For medium weight doors / average frequency. Used where conditions require the door to completely clear the opening at 90 degrees.





SIZE	E OPEN GAUGE		SCREW SIZE		NUMBER	QUA	NTITY
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5	( 045 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
5	( 050 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.

#### STANDARD WEIGHT - LUBE BEARING - SWING CLEAR

LB8020 STEEL

with steel pin ANSI A8122

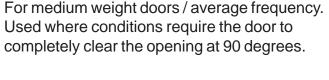
LB8021 BRASS

with stainless steel pin ANSI A2122

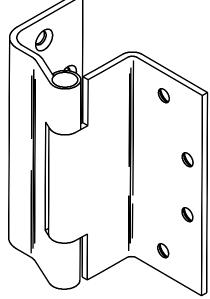
LB8022 STAINLESS STEEL

with stainless steel pin ANSI A5122

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- USE ON 1.75" DOOR MAXIMUM
- SPECIFY DOOR EDGE SQUARE OR BEVELED







SI	ZE OPEN	CALICE	GAUGE SCREW SIZE		NUMBER	QUAI	NTITY
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5	( 045 )	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
5	( 050 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.



#### **HEAVY WEIGHT - BALL BEARING - SWING CLEAR**

BB5024 STEEL

with steel pin ANSI A8121

BB5025 BRASS

with stainless steel pin ANSI A2121

BB5026 STAINLESS STEEL

with stainless steel pin ANSIA5121

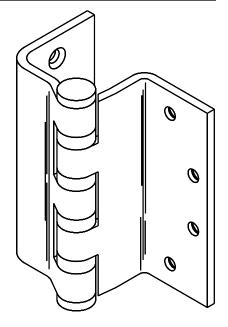
- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- SPECIFY DOOR EDGE SQUARE OR BEVELED



degrees.

For heavy weight doors / high frequency.

Used where conditions require the door to completely clear the opening at 90



SIZE OPEN HEIGHT & WIDTH		GAUGE	SCREW SIZE		NUMBER	QUANTITY	
		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5	( 045 )	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
5	( 050 )	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.

#### **HEAVY WEIGHT - LUBE BEARING - SWING CLEAR**

LB8024 STEEL

with steel pin ANSI A8121

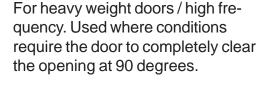
LB8025 BRASS

with stainless steel pin ANSI A2121

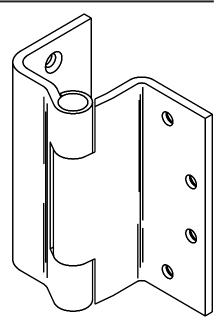
LB8026 STAINLESS STEEL

with stainless steel pin ANSI A5121

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- SPECIFY DOOR EDGE SQUARE OR BEVELED







SIZE OPEN HEIGHT & WIDTH		GAUGE	SCREW SIZE		NUMBER	QUANTITY	
		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5	( 045 )	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.
5	( 050 )	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.



#### **HEAVY WEIGHT - BALL BEARING - ANCHOR TYPE**

For heavy weight doors subject to high frequency service and abuse, Anchor hinges provide increased reinforcement at the door and jamb

where stress can occur.

#### BB5034 STEFI

with steel pin **ANSI A8511** 

#### BB5035 BRASS

with stainless steel pin ANSI A2511

#### BB5036 STAINLESS STEEL

with stainless steel pin **ANSI A5511** 

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLES
- NON-REMOVABLE PIN STANDARD
- BUTTON TIP PIN & PLUG

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SIZE	OPEN	GAUGE	SCREW SIZE		NUMBER	QUANTITY	
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
5 X 4.5	( 545 )	.190	12-24 x 1/2	12 x 1 1/4	18	3 ea.	6 ea.

Anchor hinges are used at the top of the door only and are sold separately. Additional heavy weight, full mortise hinges -BB5004, LB8004, BB5005, LB8005, BB5006, LB8006 5 x 4.5 (545) - should be used in the other hinge locations. The hinge pin is inserted into the bottom of the barrel and held in place by a set screw ( NRP FEATURE ). When ordering, please specify the following:

- 1. Hand of door (RH or LH)
- 2. Door hinge edge ( square or beveled ).
- 3. Door reinforcing arm length 7.5" or 4" (door arm can be omitted from door leaf if required).

#### **HEAVY WEIGHT - LUBE BEARING - ANCHOR TYPE**

For heavy weight doors subject to high frequency service and abuse, Anchor hinges provide increased reinforcement at the door and jamb where stress can occur.

#### LB8034 STEEL

with steel pin ANSI A8511

#### LB8035 BRASS

with stainless steel pin ANSI A2511

#### LB8036 STAINLESS STEEL

with stainless steel pin ANSI A5511

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-REMOVABLE PIN STANDARD
- FLUSH TIP PIN & PLUG

SIZE OPEN		GAUGE	SCREW SIZE		NUMBER	QUANTITY		
Ŀ	HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
5	X 4.5	(545)	.190	12-24 x 1/2	12 x 1 1/4	18	3 ea.	6 ea.



#### **STANDARD WEIGHT - BALL BEARING - RAISED BARREL**

For medium weight doors / average frequency.

For medium weight doors / average frequency.

Used where doors are set deep onto a wide frame.

Used where doors are set deep onto a wide

BB5040 STEEL

with steel pin ANSI A8112

BB5041 BRASS

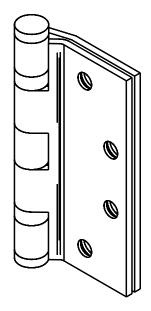
with stainless steel pin ANSIA2112

BB5042 STAINLESS STEEL

frame.

with stainless steel pin ANSIA5112

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- USE ON 1.75" DOOR MAXIMUM
- CAN BE MORTISED OR SURFACE MOUNTED TO THE JAMB



SIZE C	PEN	GAUGE	SCREW SIZE		NUMBER	QUANITITY	
HEIGHT & WIDTH		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	( 545 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.

#### STANDARD WEIGHT - LUBE BEARING - RAISED BARREL

LB8040 STEEL

with steel pin ANSI A8112

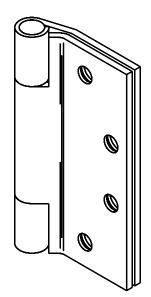
LB8041 BRASS

with stainless steel pin ANSI A2112

LB8042 STAINLESS STEEL

with stainless steel pin ANSIA5112

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- USE ON 1.75" DOOR MAXIMUM
- CAN BE MORTISED OR SURFACE MOUNTED TO THE JAMB



SIZE OPEN HEIGHT & WIDTH		GAUGE	SCREW SIZE		NUMBER	QUANITITY	
		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4.5	(450)	.134	12-24 x 1/2	12 x 1 1/4	8	3 ea.	48 ea.
5 X 4.5	( 545 )	.146	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.



#### **HEAVY WEIGHT - BALL BEARING - RAISED BARREL**

For heavy weight doors / high frequency. Used where doors are set deep into a wide frame.

BB5044 STEEL

with steel pin ANSI A8111

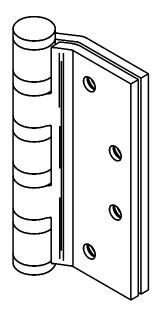
BB5045 BRASS

with stainless steel pin ANSI A2111

BB5046 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- CAN BE MORTISED OR SURFACE MOUNTED TO THE JAMB



SIZE OPEN HEIGHT & WIDTH		GAUGE	SCREW SIZE		NUMBER	QUANTITY	
		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4.5	(450)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 4.5	( 545 )	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.

#### **HEAVY WEIGHT - LUBE BEARING - RAISED BARREL**

For heavy weight doors / high frequency. Used where doors are set deep into a wide frame.

LB8044 STEEL

with steel pin ANSI A8111

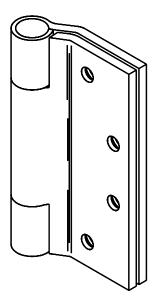
LB8045 BRASS

with stainless steel pin ANSI A2111

LB8046 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- CAN BE MORTISED OR SURFACE MOUNTED TO THE JAMB



SIZE OPEN HEIGHT & WIDTH		GAUGE	SCREW SIZE		NUMBER	QUANTITY	
		GAUGE	MACHINE	WOOD	OF HOLES	BOX	CASE
4.5 X 4.5	(450)	.180	12-24 x 1/2	12 x 1 1/4	8	3 ea.	36 ea.
5 X 4.5	( 545 )	.190	12-24 x 1/2	12 x 1 1/4	8	3 ea.	24 ea.



#### **STANDARD WEIGHT - PLAIN BEARING - SLIP IN**

For medium weight doors / low frequency. Used for aluminum doors and

frames. Hinge leafs slip into a slot in the door and/or frame.

- When ordering please specify the following: 1. Both leaves tapped with .3125 swage.

  - 2. One leaf tapped with .1875 swage.



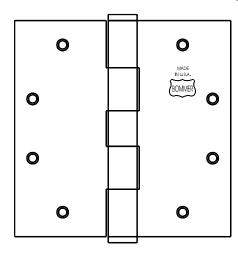
**5051** BRASS

with stainless steel pin **ANSI A2133** 

5052 STAINLESS STEEL

with stainless steel pin **ANSI A5133** 

- TEMPLATE
- PLAIN BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



SIZE OPEN		GAUGE	SCREW SIZE	NUMBER	QUANTITY	
HEIGHT 8	HEIGHT & WIDTH		MACHINE	OF HOLES	BOX	CASE
4.5 X 4	(454)	.134	12-24 x 1/2	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	8	3 ea.	48 ea.

#### STANDARD WEIGHT - PLAIN BEARING - SLIP IN

For medium weight doors / low frequency. Used for aluminum doors and frames. Hinge leafs slip into a slot in the door and/or frame.

8050 STEEL with steel pin **ANSI A8112** 

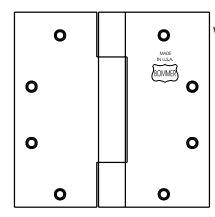
8051 BRASS

with stainless steel pin **ANSI A2112** 

8052 STAINLESS STEEL

with stainless steel pin **ANSI A5112** 

- TEMPLATE
- PLAIN BEARING
- •THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



When ordering please specify the following: 1. Both leaves tapped with .3125 swage.

- 2. One leaf tapped with .1875 swage.

SIZE OPEN		GAUGE	SCREW SIZE	NUMBER	QUANTITY	
HEIGHT 8	WIDTH	GAUGE	MACHINE	OF HOLES	BOX	CASE
4.5 X 4	(454)	.134	12-24 x 1/2	8	3 ea.	48 ea.
4.5 X 4.5	( 450 )	.134	12-24 x 1/2	8	3 ea.	48 ea.



## Full Mortise Hinges STANDARD WEIGHT - BALL BEARING - SLIP IN

For medium weight doors / average frequency. Used for aluminum doors and frames. Hinge leaves slip into a slot in the door and/or frame.

#### BB5050 STEEL

with steel pin ANSI A8112

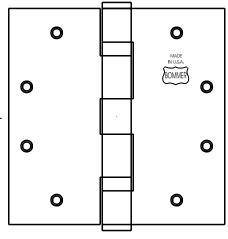
BB5051 BRASS

with stainless steel pin ANSIA2112

BB5052 STAINLESS STEEL

with stainless steel pin ANSIA5112

- •TEMPLATE
- BALL BEARING
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



When ordering please specify the following:

- 1. Both leaves tapped with .3125 swage.
- 2. One leaf tapped with .1875 swage.

SIZE OPEN		GAUGE	SCREW SIZE	NUMBER	QUANTITY	
HEIGHT	& WIDTH	GAUGE	MACHINE OF HOLES		BOX	CASE
4.5 X 4	( 454 )	.134	12-24 x 1/2	8	3 ea.	48 ea.
4.5 X 4.5	( 450 )	.134	12-24 x 1/2	8	3 ea.	48 ea.

#### **STANDARD WEIGHT - LUBE BEARING - SLIP IN**

For medium weight doors / average frequency. Used for aluminum doors and frames. Hinge leaves slip into a slot in the door and/or frame.

#### LB8050 STEEL

with steel pin ANSI A8112

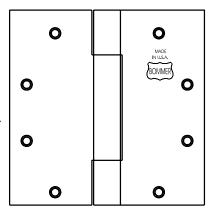
LB8051 BRASS

with stainless steel pin ANSIA2112

LB8052 STAINLESS STEEL

with stainless steel pin ANSI A5112

- TEMPLATE
- LUBE BEARING
- •THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



When ordering please specify the following:

- 1. Both leaves tapped with .3125 swage.
- 2. One leaf tapped with .1875 swage.

SIZE OPEN HEIGHT & WIDTH		GAUGE	SCREW SIZE	NUMBER OF HOLES	QUANTITY	
			MACHINE		BOX	CASE
4.5 X 4	(454)	.134	12-24 x 1/2	8	3 ea.	48 ea.
4.5 X 4.5	(450)	.134	12-24 x 1/2	8	3 ea.	48 ea.



## **Full Mortise Electric Hinges**

#### **STANDARD WEIGHT - BALL BEARING - ELECTRIC HINGE**

#### BB5060 STEEL

with steel pin ANSI A8112

#### BB5061 BRASS

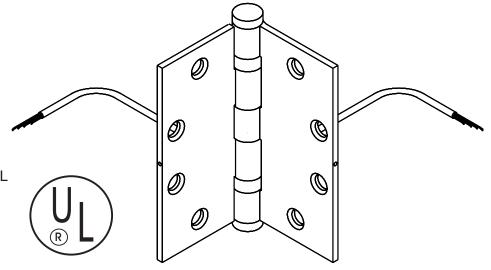
with stainless steel pin ANSIA2112

#### BB5062 STAINLESS STEEL

with stainless steel pin ANSIA5112

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- 12 INCH WIRE LEAD PER SIDE

ELECTRIC HINGES MUST BE NON-LOAD BEARING. MOUNT IN CENTER POSITION ONLY.



#### POWER TRANSFER OPTIONS

- Concealed electric thru-wires (2,4,6,8,10)
- · Concealed electric monitor
- Concealed electric thru-wires (4,6,8) with monitor
- Concealed air transfer
- Exposed electric contacts
- · Exposed electric switch

SIZE ( HEIGHT (	GAUGE	
4.5 X 4	(454)	.134
4.5 X 4.5	(450)	.134
5 X 4	( 504 )	.146
5 X 4.5	( 545 )	.146
5 X 5	(500)	.146

#### STANDARD WEIGHT - LUBE BEARING - ELECTRIC HINGE

#### LB8060 STEEL

with steel pin ANSI A8112

### LB8061 BRASS

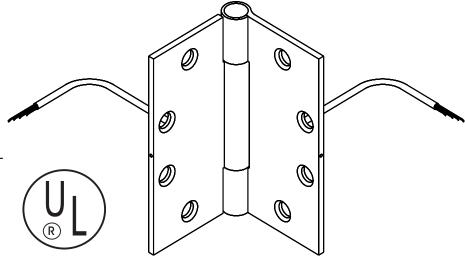
with stainless steel pin ANSI A2112

## LB8062 STAINLESS STEEL

with stainless steel pin ANSI A5112

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- 12 INCH WIRE LEAD PER SIDE

ELECTRIC HINGES MUST BE NON-LOAD BEARING. MOUNT IN CENTER POSITION ONLY.



#### POWER TRANSFER OPTIONS

- Concealed electric thru-wires (2,4,6,8,10)
- · Concealed electric monitor
- Concealed electric thru-wires (4,6,8) with monitor
- Concealed air transfer
- Exposed electric contacts
- Exposed electric switch

SIZE OPEN HEIGHT & WIDTH		GAUGE
4.5 X 4	(454)	.134
4.5 X 4.5	( 450 )	.134
5 X 4	(504)	.146
5 X 4.5	( 545 )	.146
5 X 5	( 500 )	.146



## **Full Mortise Electric Hinges**

#### **HEAVY WEIGHT - BALL BEARING - ELECTRIC HINGE**

#### BB5064 STEEL

with steel pin ANSI A8111

BB5065 BRASS

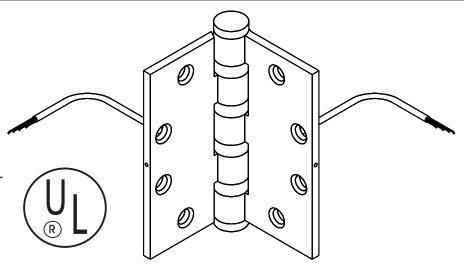
with stainless steel pin ANSI A2111

## BB5066 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- 12 INCH WIRE LEAD PER SIDE

ELECTRIC HINGES MUST BE NON-LOAD BEARING. MOUNT IN CENTER POSITION ONLY.



#### POWER TRANSFER OPTIONS

- Concealed electric thru-wires (2,4,6,8,10)
- · Concealed electric monitor
- Concealed electric thru-wires (4,6,8) with monitor
- · Concealed air transfer
- Exposed electric contacts
- Exposed electric switch

SIZE OPEN HEIGHT & WIDTH		GAUGE
4.5 X 4	(454)	.180
4.5 X 4.5	(450)	.180
5 X 4	(504)	.190
5 X 4.5	( 545 )	.190
5 X 5	(500)	.190

#### **HEAVY WEIGHT - LUBE BEARING - ELECTRIC HINGE**

#### LB8064 STEEL

with steel pin ANSI A8111

#### LB8065 BRASS

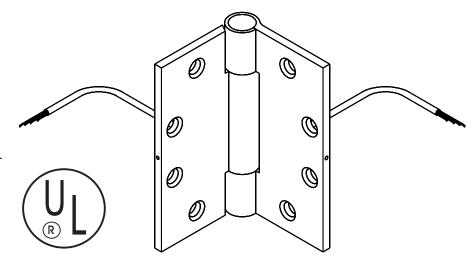
with stainless steel pin ANSI A2111

## LB8066 STAINLESS STEEL

with stainless steel pin ANSI A5111

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- 12 INCH WIRE LEAD PER SIDE

ELECTRIC HINGES MUST BE NON-LOAD BEARING. MOUNT IN CENTER POSITION ONLY.



#### POWER TRANSFER OPTIONS

- Concealed electric thru-wires (2,4,6,8,10)
- · Concealed electric monitor
- Concealed electric thru-wires (4,6,8) with monitor
- Concealed air transfer
- Exposed electric contacts
- Exposed electric switch

SIZE O	GAUGE	
4.5 X 4	(454)	.180
4.5 X 4.5	(450)	.180
5 X 4	(504)	.190
5 X 4.5	(545)	.190
5 X 5	(500)	.190

AH-22



## Full Mortise Electric Hinges

## **Mortar Box for Electric Hinges**

#### BB5060-MB-1 GALVANIZED STEEL

- SHIELDS ELECTRIC FITTINGS FROM MORTAR
- FOR USE WITH BOMMER 5000 & 8000 SERIES ELECTRIC HINGES
- FITS HINGE REINFORCEMENTS FOR 4 1/2" OR 5" CONTRACT GRADE HINGES
- SERVICED THROUGH REMOVABLE BACK
- TOP & BOTTOM KNOCKOUTS FOR STANDARD CONDUITS
- INSTALLED ON THE JOB PRIOR TO SETTING JAMB OR AT HOLLOW METAL MANUFACTURERS

### **Notes for Electric Hinges**

CONSULT FACTORY ON HALF MORTISE, SWING-CLEAR, WIDE THROW HINGES, OR OTHER ELECTRICAL INFORMATION.

## Full Surface Anchor Pivot HEAVY WEIGHT - LUBE BEARING - ANCHOR PIVOT

7004 STEEL with steel pin

7006 STAINLESS STEEL

with stainless steel pin

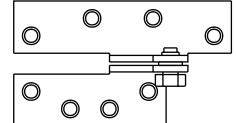
- NON-TEMPLATE
- LUBE BEARINGS
- HEX HEAD THREADED PIVOT PIN STANDARD
- STANDARD SCREW PACK OF:

8ea. MACHINE SCREWS ( 1/4"-20 x 3/4" FHMS ) 8ea. WOOD SCREWS ( 8ea. #14 x 1 1/4" FHSMS )

4ea. SLEEVE BOLTS FOR 1/4"-20 THREAD TO FIT 1 3/4" DOORS

• SHIMS MAY BE USED IF NEEDED

For medium and heavy weight doors subject to high frequency service and abuse, Anchor pivots provide increased reinforcement at the top corner on the hinge side of the door and jamb where stress can occur.



ITEM NUMBER	HANDING OF DOOR	GAUGE	BUTT HINGE WIDTH	PROJECTION	QUANTITY PER CASE	AVERAGE WEIGHT PER CASE	DOOR THICKNESS
7004-045L	LH	.187	4 1/2"	3/4"	12	19 lbs.	1 3/4
7004-045R	RH	.187	4 1/2"	3/4"	12	19 lbs.	1 3/4
7004-050L	LH	.187	5 "	1"	12	19 lbs.	1 3/4
7004-050R	RH	.187	5 "	1"	12	19 lbs.	1 3/4
7006-045L	LH	.187	4 1/2"	3/4"	12	22 lbs.	1 3/4
7006-045R	RH	.187	4 1/2"	3/4"	12	22 lbs.	1 3/4
7006-050L	LH	.187	5 "	1"	12	22 lbs.	1 3/4
7006-050R	RH	.187	5 "	1"	12	22 lbs.	1 3/4

This Anchor Pivot is surface applied with no special frame or door preparation. This pivot will help overcome field problems such as bent hinge leaves, loose hinge renforcements and loose screws.



## **Half Mortise Hinges**

#### **STANDARD WEIGHT - PLAIN BEARING**

For medium weight doors / low frequency. Normally used when door is hung in a channel iron jamb.

5100 STEFL

with steel pin **ANSI A8233** 

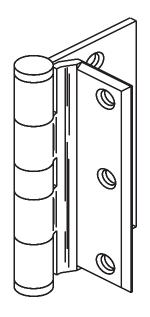
**5101** BRASS

with stainless steel pin ANSI A2233

5102 STAINLESS STEEL

with stainless steel pin **ANSI A5233** 

- •TEMPLATE
- PLAIN BEARING
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



ШМ	IGE SIZE	CALICE	DOOR LEAF	JAMB LEAF	I FAF NUMBER				QUAI	NTITY
	IGE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.062	1.500	.438	12-24FH x 1/2	12-24OH x 1/2	7	3 ea.	24 ea.

#### **STANDARD WEIGHT - PLAIN BEARING**

8100 STEEL

with steel pin **ANSI A8133** 

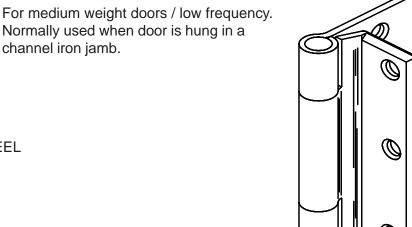
**8101** BRASS

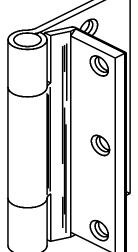
with stainless steel pin **ANSI A2133** 

8102 STAINLESS STEEL

with stainless steel pin **ANSI A5133** 

- •TEMPLATE
- PLAIN BEARING
- THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG





ымс	SE SIZE	GAUGE	DOOR LEAF	JAMB LEAF	JAMB MACHINE SCREW SIZE NUMBER				QUAI	NTITY
HINC	SE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.062	1.500	.438	12-24FH x 1/2	12-24OH x 1/2	7	3 ea.	24 ea.



## **Half Mortise Hinges** STANDARD WEIGHT - BALL BEARING

For medium weight doors / average frequency. Normally used when door is hung in a channel iron jamb.

#### BB5100 STEFL

with steel pin ANSI A8212

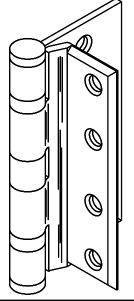
#### BB5101 BRASS

with stainless steel pin **ANSI A2212** 

## BB5102 STAINLESS STEEL

with stainless steel pin ANSI A5212

- •TEMPLATE
- BALL BEARING
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



LIINI	CE 817E	CALICE	DOOR LEAF	JAMB LEAF	JAMB LEAF	MACHINE SO	CREW SIZE	NUMBER	QUAI	YTITY
יאווח	GE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.062	1.500	.438	12-24FH x 1/2	12-24OH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.146	2.062	1.500	.438	12-24FH x 1/2	12-24OH x 1/2	8	3 ea.	24 ea.

For medium weight doors / average frequency. Normally used when door is

hung in a channel iron jamb.

#### STANDARD WEIGHT - LUBE BEARING

LB8100 STEEL

with steel pin **ANSI A8212** 

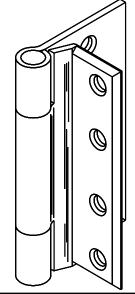
#### LB8101 BRASS

with stainless steel pin ANSI A2212

## LB8102 STAINLESS STEEL

with stainless steel pin

- **ANSI A5212**
- •TEMPLATE • LUBE BEARING
- THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



ШМ	CE 817E	CALICE	DOOR LEAF	JAMB LEAF	JAMB LEAF	MACHINE SO	CREW SIZE	NUMBER	QUAI	YTITY
ППИ	GE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.062	1.500	.438	12-24FH x 1/2	12-24OH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.146	2.062	1.500	.438	12-24FH x 1/2	12-24OH x 1/2	8	3 ea.	24 ea.



### **Half Mortise Hinges**

#### **HEAVY WEIGHT - BALL BEARING**

BB5104 STEEL

with steel pin ANSI A8211

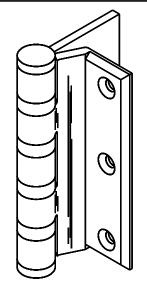
BB5105 BRASS

with stainless steel pin ANSI A2211

BB5106 STAINLESS STEEL

with stainless steel pin ANSI A5211

- •TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



Г	INGE SIZE	GAUGE	DOOR LEAF	JAMB LEAF	JAMB LEAF	MACHINE SO	CREW SIZE	NUMBER	QUAI	NTITY
Ľ	INGE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	5 (045)	.180	2.125	1.500	.500	12-24FH x 1/2	12-24OH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.190	2.125	1.500	.500	12-24FH x 1/2	12-24OH x 1/2	8	3 ea.	24 ea.
6	( 060 )	.203	2.125	1.500	.500	12-24FH x 1/2	12-24OH x 1/2	9	3 ea.	24 ea.

For heavy weight doors / high frequency.

nel iron jamb.

Normally used when door is hung in a chan-

#### **HEAVY WEIGHT - LUBE BEARING**

LB8104 STEEL

with steel pin ANSI A8211 For heavy weight doors / high frequency. Normally used when door is hung in a channel iron jamb.

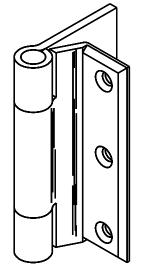
LB8105 BRASS

with stainless steel pin ANSI A2211

LB8106 STAINLESS STEEL

with stainless steel pin ANSIA5211

- •TEMPLATE
- LUBE BEARING
- •THREE KNUCKLES
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



[_	NGE SIZE	GAUGE	DOOR LEAF	JAMB LEAF	JAMB LEAF	MACHINE SO	CREW SIZE	NUMBER	QUAI	NTITY
	NGE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.180	2.125	1.500	.500	12-24FH x 1/2	12-24OH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.190	2.125	1.500	.500	12-24FH x 1/2	12-24OH x 1/2	8	3 ea.	24 ea.
6	( 060 )	.203	2.125	1.500	.500	12-24FH x 1/2	12-24OH x 1/2	9	3 ea.	24 ea.



## Half Mortise Hinges

#### **HEAVY WEIGHT - BALL BEARING - SWING CLEAR**

BB5124 STEEL

with steel pin ANSI A8221

BB5125 BRASS

with stainless steel pin ANSI A2221

BB5126 STAINLESS STEEL

with stainless steel pin ANSI A5221

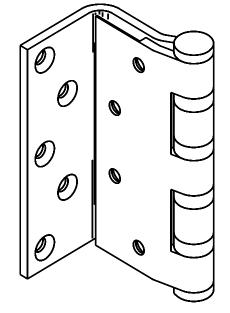
- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG



For heavy weight doors / high frequency. Used where conditions

at 90 degrees.

require the door to clear the opening



ſ	HINGE S	175	GAUGE	DOOR LEAF	JAMB LEAF	JAMB LEAF	MACHINE SO	CREW SIZE	NUMBER OF	QUAI	NTITY
ı	HINGE 3		GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	HOLES	вох	CASE
4	5 (0	50)	.190	2.125	1.515	.500	12-24FH x 1/2	12-24OH x 1/2	9	3 ea.	24 ea.



### **Full Surface Hinges**

**STANDARD WEIGHT - BALL BEARING**For medium weight doors / average frequency. Normally used on composite core doors with channel iron jambs. Thru-bolts and grommet nuts supplied for door leaf.

BB5200 STEEL

with steel pin **ANSI A8312** 

BB5201 BRASS

with stainless steel pin **ANSI A2312** 

BB5202 STAINLESS STEEL

with stainless steel pin **ANSI A5312** 

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG

F			
	0	<u></u>	0
			MADE IN U.S.A. BOMMER
L			

	NOE SIZE	CALICE	DOOR	DOOR	JAMB LEAF	JAMB	SCREV	V SIZE	NUMBER	QUAI	YTITV
	NGE SIZE	GAUGE	LEAF WIDTH	LEAF OFFSET	WIDTH	LEAF OFFSET	DOOR THRU BOLTS	JAMB MACHINE SCREWS	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.562	.562	1.500	.438	1/4-20OH x 2	12-24OH x 1/2	7	3 ea.	48 ea.
5	( 050 )	.146	2.875	.562	1.500	.438	1/4-20OH x 2	12-24OH x 1/2	8	3 ea.	24 ea.

#### **STANDARD WEIGHT - LUBE BEARING**

For medium weight doors / average frequency. Normally used on composite core doors with channel iron jambs. Thru-bolts and grommet nuts supplied for door leaf.

LB8200 STEFL

with steel pin **ANSI A8312** 

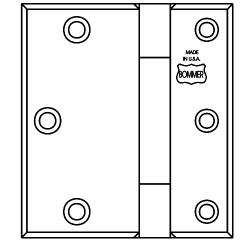
LB8201 BRASS

with stainless steel pin **ANSI A2312** 

LB8202 STAINLESS STEEL

with stainless steel pin **ANSI A5312** 

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG



Г.,	NOT CIZE	CALICE	DOOR	DOOR	JAMB LEAF	JAMB	SCREV	V SIZE	NUMBER	QUAI	YTITY
	NGE SIZE	GAUGE	LEAF WIDTH	LEAF OFFSET	WIDTH	LEAF OFFSET	DOOR THRU BOLTS	JAMB MACHINE SCREWS	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.562	.562	1.500	.438	1/4-20OH x 2	12-24OH x 1/2	7	3 ea.	48 ea.
5	( 050 )	.146	2.875	.562	1.500	.438	1/4-20OH x 2	12-24OH x 1/2	8	3 ea.	24 ea.



## **Full Surface Hinges**

#### **HEAVY WEIGHT - BALL BEARING**

For heavy weight doors / high frequency. Normally used on composite core doors with channel iron jambs. Thru-bolts and grommet nuts supplied for door leaf.

BB5204 STEEL with steel pin ANSI A8311

BB5205 BRASS

with stainless steel pin ANSI A2311

BB5206 STAINLESS STEEL

with stainless steel pin ANSI A5311

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG

	1	
		MADE NUSA
0		(BOMMER)
0		0

	105 0175	CALICE	DOOR	DOOR	JAMB	JAMB	SCREV	V SIZE	NUMBER	QUAI	YTITY
HIN	NGE SIZE	GAUGE	LEAF WIDTH	LEAF OFFSET	LEAF WIDTH	LEAF OFFSET	DOOR THRU BOLTS	JAMB MACHINE SCREWS	OF HOLES	вох	CASE
4.5	( 045 )	.180	2.562	.625	1.500	.500	1/4-20OH x 2	12-24OH x 1/2	6	3 ea.	36 ea.
5	( 050 )	.190	2.875	.625	1.500	.500	1/4-20OH x 2	12-24OH x 1/2	8	3 ea.	24 ea.
6	( 060 )	.203	3.250	.625	1.500	.500	1/4-20OH x 2	1/4-20OH x 1/2	9	3 ea.	18 ea.

#### **HEAVY WEIGHT - LUBE BEARING**

LB8204 STEEL

with steel pin ANSI A8311

LB8205 BRASS

with stainless steel pin ANSI A2311

LB8206 STAINLESS STEEL

leaf.

with stainless steel pin ANSI A5311

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG

0	MADE NUSA
	BOMMER
	0

For heavy weight doors / high frequency. Normally used on composite core doors with channel iron jambs. Thru-bolts and grommet nuts supplied for door

	IOE 017E	CALICE	DOOR	DOOR	JAMB	JAMB	SCREV	V SIZE	NUMBER	QUAI	YTITY
HIN	IGE SIZE	GAUGE	LEAF WIDTH	LEAF OFFSET	LEAF WIDTH	LEAF OFFSET	DOOR THRU BOLTS	JAMB MACHINE SCREWS	OF HOLES	вох	CASE
4.5	( 045 )	.180	2.562	.625	1.500	.500	1/4-20OH x 2	12-24OH x 1/2	6	3 ea.	36 ea.
5	( 050 )	.190	2.875	.625	1.500	.500	1/4-20OH x 2	12-24OH x 1/2	8	3 ea.	24 ea.
6	( 060 )	.203	3.250	.625	1.500	.500	1/4-20OH x 2	1/4-20OH x 1/2	9	3 ea.	18 ea.



## Full Surface Hinges HEAVY WEIGHT - BALL BEARING - SWING CLEAR

For heavy weight doors / high frequency. Used where conditions require the door to clear the opening at 90 degrees.

BB5224 STEEL

with steel pin ANSI A8321

BB5225 BRASS

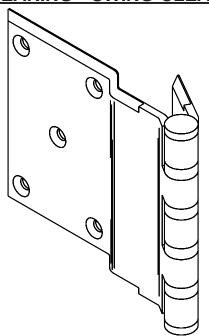
with stainless steel pin ANSI A2321

BB5226 STAINLESS STEEL

with stainless steel pin ANSIA5321

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLES
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG





	NGE SIZE	CALICE	DOOR LEAF	JAMB LEAF	SCREV	V SIZE	NUMBER OF	QUAI	YTITY
	NGE SIZE	GAUGE	WIDTH	WIDTH	DOOR THRU BOLTS	JAMB MACHINE SCREWS	HOLES	вох	CASE
5	( 050 )	.190	5.546	1.515	1/4-20OH x 2	12-24OH x 1/2	9	3 ea.	24 ea.



## Half Surface Hinges STANDARD WEIGHT - PLAIN BEARING

5300 STEEL with steel pin ANSI A8433

For medium weight doors / low frequency. Normally used on composite core doors with hollow metal jambs.

**5301** BRASS

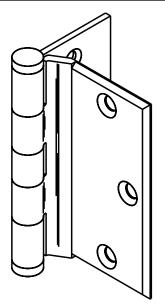
with stainless steel pin ANSI A2433

5302 STAINLESS STEEL

with stainless steel pin

**ANSI A5433** 

- TEMPLATE
- PLAIN BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF



HIN	GE SIZE	GAUGE			REW SIZE	NUMBER OF	QUA	NTITY		
	OL OIZL	OAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	HOLES	вох	CASE
3.5	( 045 )	.123	2.062	1.500	.438	10-24OH x 1 3/4	10-24FH x 1/2	6	3 ea.	48 ea.
4	( 040 )	.130	2.250	1.812	.500	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	48 ea.
4.5	( 045 )	.134	2.562	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.146	2.875	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	8	3 ea.	24 ea.

#### **STANDARD WEIGHT - PLAIN BEARING**

 $8300\,\text{STEEL}$ 

with steel pin

For medium weight doors / low frequency. Normally used on composite core doors

with hollow metal jambs.

**8301** BRASS

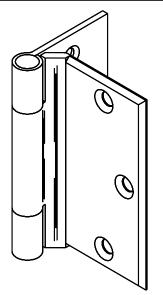
with stainless steel pin ANSI A2433

8302 STAINLESS STEEL

with stainless steel pin

**ANSI A5433** 

- TEMPLATE
- PLAIN BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF



	HINGE SIZE GAUG		DOOR JA		DOOR	MACHINE SCREW SIZE NUMBER		NUMBER	QUANTITY	
ППІМ	GE SIZE	GAUGE	WIDTH	LEAF WIDTH	LEAF OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.562	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.146	2.875	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	8	3 ea.	24 ea.



## **Half Surface Hinges**

#### STANDARD WEIGHT - BALL BEARING

BB5300 STEEL with steel pin ANSI A8412

For medium weight doors / average frequency. Normally used on composite core doors with hollow metal jambs.

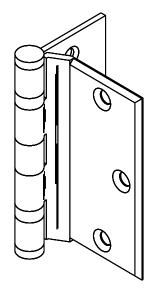
BB5301 BRASS with stainless steel pin ANSI A2412

BB5302 STAINLESS STEEL

with stainless steel pin

**ANSI A5412** 

- TEMPLATE
- BALL BEARING
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF



ни	GE SIZE			REW SIZE	NUMBER OF	QUA	NTITY			
	OL OIZL	OAUUL	WIDTH	WIDTH	OFFSET	DOOR	JAMB	HOLES	вох	CASE
3.5	( 045 )	.123	2.062	1.500	.438	10-24OH x 1 3/4	10-24FH x 1/2	6	3 ea.	48 ea.
4	( 040 )	.130	2.250	1.812	.500	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	48 ea.
4.5	( 045 )	.134	2.562	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.146	2.875	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	8	3 ea.	24 ea.

For medium weight doors / average fre-

quency. Normally used on

composite core doors with

hollow metal jambs.

#### **STANDARD WEIGHT - LUBE BEARING**

LB8300 STEEL

with steel pin ANSI A8412

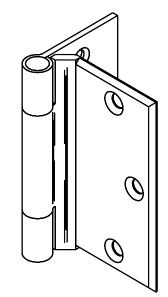
LB8301 BRASS

with stainless steel pin ANSI A2412

LB8302 STAINLESS STEEL

with stainless steel pin ANSI A5412

- TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF



	HINGE SIZE GA		DOOR	JAMB	DOOR LEAF	MACHINE SC	MACHINE SCREW SIZE NUMBER		QUANTITY	
HIN	GE SIZE	GAUGE	LEAF WIDTH	LEAF WIDTH	OFFSET	DOOR	JAMB	OF HOLES	вох	CASE
4.5	( 045 )	.134	2.562	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.146	2.875	2.062	.562	1/4-20OH x 2	12-24FH x 1/2	8	3 ea.	24 ea.



### **Half Surface Hinges HEAVY WEIGHT - BALL BEARING**

BB5304 STEEL with steel pin

**ANSI A8411** 

BB5305 BRASS

**ANSI A2411** 

For heavy weight doors / high frequency. Normally used on composite core doors with hollow metal jambs.

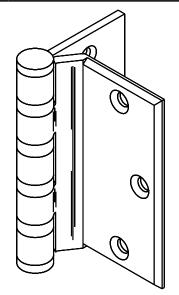
#### with stainless steel pin

BB5306 STAINLESS STEEL with stainless steel pin

**ANSI A5411** 

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF

with hollow metal jambs.



Г	NGE SIZE	GAUGE	DOOR LEAF	JAMB LEAF	DOOR	DOOR MACHINE SCREW SIZE		NUMBER OF	QUANTITY	
["	NOL OIZL	CAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	HOLES	вох	CASE
4.5	( 045 )	.180	2.562	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.190	2.875	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
6	( 060 )	.203	3.250	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	8	3 ea.	18 ea.

#### LB8304 STEEL

with steel pin ANSI A8411

LB8305 BRASS

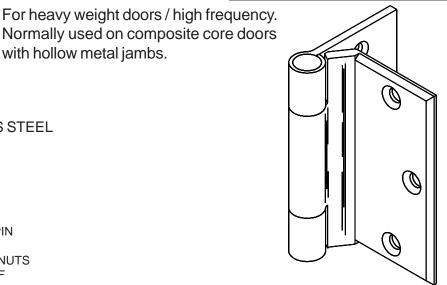
with stainless steel pin **ANSI A2411** 

LB8306 STAINLESS STEEL

with stainless steel pin **ANSI A5411** 

- •TEMPLATE
- LUBE BEARING
- THREE KNUCKLE
- NON-RISING REMOVABLE PIN
- FLUSH TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF

#### **HEAVY WEIGHT - LUBE BEARING**



	NGE SIZE	GAUGE	DOOR LEAF	JAMB LEAF	DOOR LEAF	MACHINE SCREW SIZE		NUMBER OF	QUA	NTITY
Ľ	NGL SIZL	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	HOLES	вох	CASE
4.5	( 045 )	.180	2.562	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
5	( 050 )	.190	2.875	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	7	3 ea.	24 ea.
6	( 060 )	.203	3.250	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	8	3 ea.	18 ea.



## Half Surface Hinges HEAVY WEIGHT - BALL BEARING - SWING CLEAR

BB5324 STEEL

with steel pin ANSI A8421 For heavy weight doors / high frequency. Used where conditions require the door to clear the opening at 95 degrees.

BB5325 BRASS

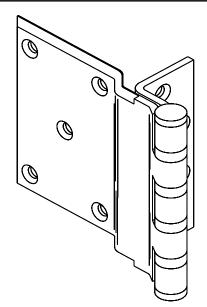
with stainless steel pin ANSI A2421

BB5326 STAINLESS STEEL

with stainless steel pin ANSI A5421

- TEMPLATE
- FOUR BALL BEARINGS
- FIVE KNUCKLE
- NON-RISING REMOVABLE PIN
- BUTTON TIP PIN & PLUG
- THRU-BOLTS & GROMMET NUTS SUPPLIED FOR DOOR LEAF





Ľ	HINGE SIZE	CALICE	DOOR LEAF			CREW SIZE	NUMBER OF	QUANTITY		
Ľ	IINGE SIZE	GAUGE	WIDTH	WIDTH	OFFSET	DOOR	JAMB	HOLES	вох	CASE
5	( 050 )	.190	5.456	2.125	.625	1/4-20OH x 2	12-24FH x 1/2	9	3 ea.	24 ea.





LUBE BEARING LB4300 SERIES
PATENT 6,460,220

# CULUS LISTED GRADE 1 UNITED STATES AND CANADA BHMA Certified GRADE 1 For 1 Million Cycles

Bommer Industries New Lube Bearing LB4300 Series Single Acting Spring Hinge is Listed by Underwriters Laboratories to meet ANSI A156.17 Grade 1 for self closing hinges (approved for fire door applications). Also BHMA Certified to conform to all ANSI A156.17 Grade 1 standards for 1 million cycles.

#### **Uses for Single Acting Spring Hinge**

Minimizes cost of installing a door closing device on industrial, commercial, institutional and residential applications. Used to convert doors to self-closing in existing buildings. For use in hotels, motels, apartments, dormitories, residences, etc., where doors are required to be self closing. (always verify local fire code requirements)

<u>Labeled Doors</u> - Maximum door sizes and number of hinges required is based on limits set forth in NFPA #80. NFPA #80 requires a minimum of two (2) spring hinges on labeled fire door applications. LB4300 Series hinges are listed by UL for fire rated openings up to and including 3 hour, <u>A label</u> openings.

Wind conditions, excessive air pressure on side of opening, or other adverse job conditions may require the use of all spring hinges. For maximum versatility use all spring hinges. UL listed spring hinges are not available with reverse springs.

Maximum Labeled Door Size - 3'-0" wide x 7'-0" high x 1 3/4" thick as set in NFPA #80.

**PLEASE NOTE**: Always verify local fire code requirements.

**Non-Labeled Doors** - Maximum door width - 4'-0". For doors over 7'-6" in height, use an additional hinge for each additional 30" of height or fraction thereof.

#### HINGE SELECTION FOR MAXIMUM DOOR SIZE

Maximum	Labeled Doo	r Size Recom	mended 3'-0" Wid	e x 7'-0" High
4	4300 SERIES	3	HINGE S	SELECTION
	nmended Max r Weight ( LB		SPRING	BUTT
350 3 1/2" X 3 1/2"	400 4" X 4"	450 4 1/2" X 4 1/2"	HINGES	HINGES
70	85	115	2 Each	1 Each
90	110	150	3 Each	NONE

#### \*NOTES:

When Installing a Bommer LB4300 Series Spring Hinge with a butt hinge the following guidelines should be followed:

3 1/2" and 4" .096 Gage Spring Hinge with 3 1/2" and 4" Residential butt hinge gage .085 to .109 3 1/2" and 4" .130 Gage Spring Hinge with 3 1/2" and 4" light Commercial butt hinge gage .123 to .130 4 1/2" .134 Gage Spring Hinge with 4 1/2" Commercial butt hinge gage .134



LUBE BEARING LB4300 SERIES
PATENT 6,460,220

## **Installation Instructions**

<u>CAUTION:</u> Do not exceed three (3) holes tension for 180 degrees door opening, or four (4) holes tension for 90 degrees door opening.

#### WORK SAFELY USE PROPER SAFETY PROTECTION.

- Hinge Installation: Install Hinge in normal manner with tension adjustment up as shown.
- 2. Adjusting Spring Torque:
  - (A) Place the door in the closed position.
  - (B) Insert Tension Lever in right hand hole in the adjustment slot see figure 1.
  - (C) Rotate Tension Lever to the left and insert Tension Pin loosley in hole to the right of Tension Lever as shown in figure 2.
  - (D) Release Tension Lever until Tension Pin contacts the right hand side of the Adjustment Slot.
  - (E) Remove Tension Lever and check the door for closing force, if desired closing force is not achieved, repeat steps A to E until closing force is satisfactory.
  - (F) When the hinges have been adjusted to close the door properly, drive the Tension Pin flush with the hinge tube.

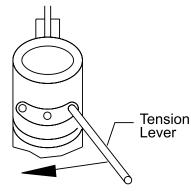
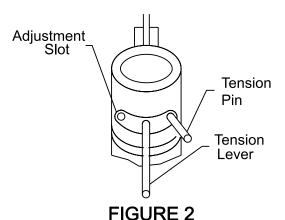


FIGURE 1



<u>CAUTION:</u> Always Install hinges with tension adjustment slot up as shown, always rotate tension lever to the left regardless of right or left hand door applications.



BOMMER'S numbering system is easy to understand. Product numbers are built from LEFT to RIGHT with each character relating to a specific hinge feature.

BP 652	PACKAGING BHMA/BOMMER FINISH SYMBOL  FINISH SYMBOL  EXAMPLES  EXAMPLES  Bodo = Prime Coat on Steel ( USP )  632 = Bright Brass Plated Cleas Coated ( US3 )  633 = Satin Brass Plated Cleas Coated ( US4 )  630 = Satin Chrome on Steel ( US22D )  652 = Satin Chrome on Steel ( US22D )	No Designation = Standard Packing BP = Builders Pack B = Bulk Pack S = Single Pack
400	SIZE PA(	
		• 10 = Template Hole Pattern Square Corner 11 = Template Hole Pattern 1/4" Radius 12 = Template Hole Pattern 1/4" Radius 13 = Half Surface Template Hole Pattern on Jamb Leaf - Special Hole Pattern Door Leaf 21 = 1/4" Radius Perma - Door 22 = 5/8" Radius Perma - Door 33 = 5/8" Radius Pease 60 = 5/8" Radius Reachtree 60 = 5/8" Radius Aguare Johnson / Integrity 61 = 5/8" Radius & Square Castigate 62 = Square Castigate 63 = Square Castigate 64 = 5/8" Radius & Square Johnson / Integrity 81 = 5/8" Radius & Square Stanley Door Systems 82 = 5/8" Radius & Square Products 90 = Stanless Steel Template Hole Pattern Square Corner
O	STYLE   No Designation = .096" Residential  C = .130 / .134" Commercial	•  10 = Template Hole Pattern Square Corner 11 = Template Hole Pattern 1/4" Radius 12 = Template Hole Pattern 1/4" Radius 13 = Half Surface Template Hole Pattern on Jamb Leaf 21 = 1/4" Radius Perma - Door 22 = 5/8" Radius Perma - Door 33 = 5/8" Radius Perma - Door 33 = 5/8" Radius Pease 42 = 5/8" Radius Pease 60 = 5/8" Radius Acorn 61 = 5/8" Radius Acorn 61 = 5/8" Radius & Square Castlgate 62 = Square Castlgate 76 = 5/8" Radius & Square Johnson / Integrity 81 = 5/8" Radius & Square Stanley Door Systems 90 = Stanless Steel Template Hole Pattern Square Corner 90 = Stanless Steel Template Hole Pattern Square Corner
12	¥	10 = Template Hole Pattern Square Corner 11 = Template Hole Pattern 1/4" Radius 12 = Template Hole Pattern 1/4" Radius 13 = Half Surface Template Hole Pattern of 22 = 5/8" Radius Perma - Door 22 = 5/8" Radius Perma - Door 33 = 5/8" Radius Perma - Door 40 = 5/8" Radius Perma - Door 60 = 5/8" Radius Pease 50 = Square Peachtree 60 = 5/8" Radius Acorn 61 = 5/8" Radius Acorn 61 = 5/8" Radius & Square Castlgate 62 = Square Castlgate 76 = 5/8" Radius & Square Johnson / Integ 81 = 5/8" Radius & Square Stanley Door S 82 = 5/8" Radius & Square Stanley Door S 90 = Stanless Steel Template Hole Pattern
43	SEARING SERIES  43 = Single Acting Spring Hinge  1B = LUBRICATED BEARING	0 1 1 2 2 3 2 3 3 5 4 5 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
<u>B</u>	BEARING	

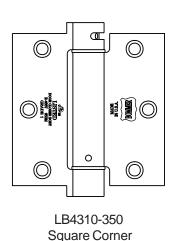
92 = Stainless Steel Template Hole Pattern 5/8" Radius

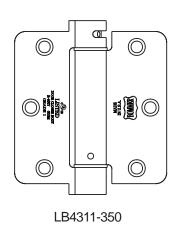


LUBE BEARING LB4300 SERIES
PATENT 6,460,220

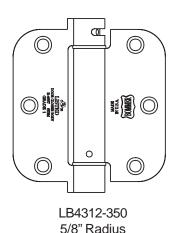


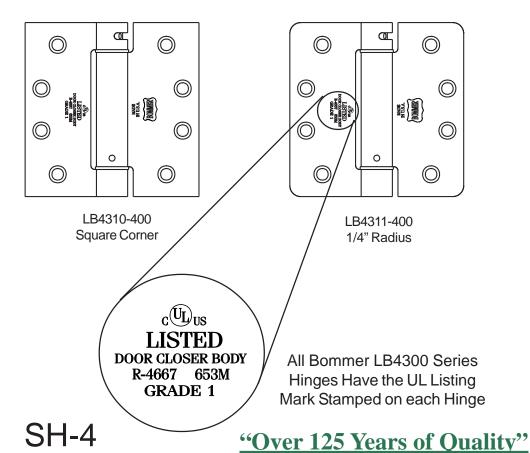
BHMA Certified Grade 1 For 1 MILLION CYCLES

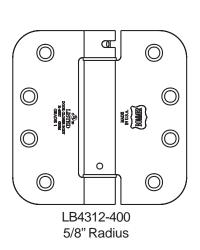




1/4" Radius









## LUBE BEARING LB4300 SERIES PATENT 6,460,220

LB4310 STEEL
FULL MORTISE - ANSI K81071F
LB4311 STEEL
FULL MORTISE - ANSI K81071F
LB4312 STEEL
FULL MORTISE - ANSI K81071F



For 1 MILLION CYCLES

- ULLISTED FOR FIRE DOOR APPLICATIONS
- NON-HANDED
- STEEL MATERIAL
- SELF LUBRICATING BEARINGS
- EASILY ADJUSTABLE SPRING TENSION
- ANSI TEMPLATED SCREW HOLE PATTERN
- PIVOT POINT ALIGNS WITH RESIDENTIAL BUTT HINGES GAGE .085 TO .109

			Gauge	Hole	Number of	Screw Size & Quantity Per Hinge			nge antity	Average Case
Item no.	Hinge Size	Corners	Metal	Pattern	Holes	Wood	Machine	Box	Case	Weight
LB4310-350	3 1/2" x 3 1/2"	Square	.096	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	27 lbs.
LB4311-350	3 1/2" x 3 1/2"	1/4" Radius	.096	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	27 lbs.
LB4312-350	3 1/2" x 3 1/2"	5/8" Radius	.096	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	27 lbs.
LB4310-400	4" x 4"	Square	.096	Template	8	(8) #10 x 3/4"	( 8 ) #10-24x 1/2"	2	40ea.	32 lbs.
LB4311-400	4" x 4"	1/4" Radius	.096	Template	8	(8) #10 x 3/4"	(8) #10-24x 1/2"	2	40ea.	32 lbs.
LB4312-400	4" x 4"	5/8" Radius	.096	Template	8	(8) #10 x 3/4"	(8) #10-24x 1/2"	2	40ea.	32 lbs.



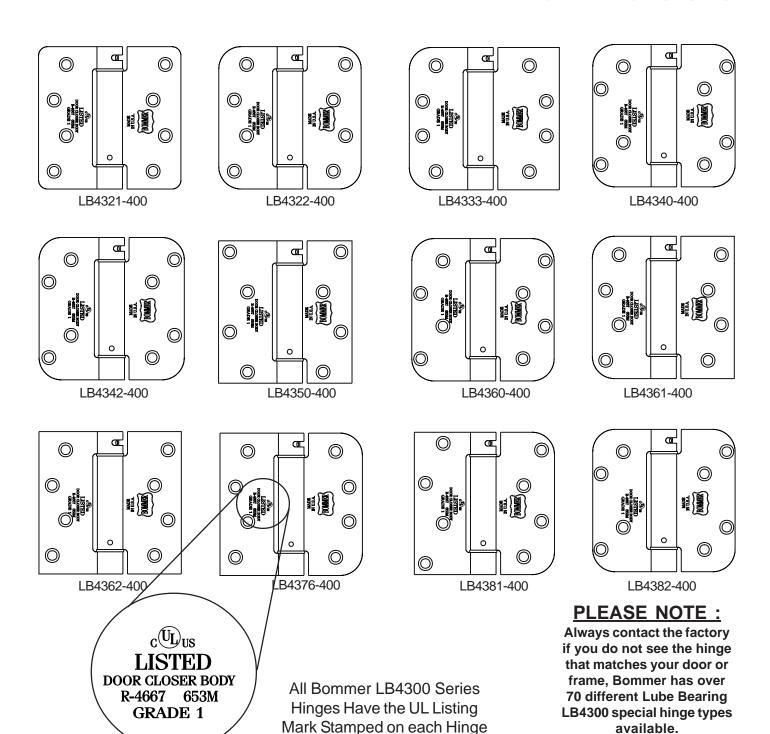
LUBE BEARING LB4300 SERIES

SPECIAL HINGE TYPES

PATENT 6,460,220



BHMA Certified Grade 1 For 1 MILLION CYCLES



SH-6

"Over 125 Years of Quality"



LUBE BEARING LB4300 SERIES
SPECIAL HINGE TYPES
PATENT 6,460,220

## SPECIAL LB4300 SERIES STEEL FULL MORTISE - ANSI K81071F

- •UL LISTED FOR FIRE DOOR APPLICATIONS
- NON-HANDED
- SPECIAL TEMPLATE HOLE LOCATION
- DESIGNED TO FIT STANDARD HINGE PREPARATION OF DOOR AND FRAME MANUFACTURERS LISTED
- STEEL MATERIAL
- EASILY ADJUSTABLE SPRING TENSION
- PIVOT POINT ALIGNS WITH RESIDENTIAL BUTT HINGES GAGE .085 TO .109

BHMA Certified Grade 1
For 1 MILLION CYCLES

<u>PLEASE NOTE</u>: Always contact the factory for the hinge that matches your door or frame, Bommer has over 70 different special hinge types available.

<u>PLEASE NOTE</u>: Always request a current template from the factory to assure you are ordering the correct hinge.

			Gauge of	Door / Frame	Number of	Screw Size & Q	uantity Per Hinge		nge antity	Average Case
Item no.	Hinge Size	Corners	Metal	Manufacturer	holes	Wood	Machine	Вох	Case	Weight
LB4321-400	4" x 4"	1/4" Radius	.096	Perma-Door	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4322-400	4" x 4"	5/8" Radius	.096	Perma-Door	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4333-400	4" x 4"	5/8" Radius Leaf Square Leaf	.096	Johnson	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4340-400	4" x 4"	5/8" Radius	.096	Pease	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4342-400	4" x 4 5/64"	5/8" Radius	.096	Pease	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4350-400	4" x 3 3/4"	Square	.096	Peachtree	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4360-400	4" x 4"	5/8" Radius	.096	Acorn	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4361-400	4" x 4"	5/8" Radius Leaf Square Leaf	.096	Castlgate	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4362-400	4" x 4"	Square	.096	Castlgate	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4376-400	4" x 4"	5/8" Radius Leaf Square Leaf	.096	Johnson Integrity	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4381-400	4" x 4"	5/8" Radius Leaf Square Leaf	.096	Stanley Door System	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.
LB4382-400	4" x 4"	5/8" Radius	.096	General Products	8	(8) #10 x 3/4"	(8)#10-24x 1/2"	2	40ea.	32 lbs.

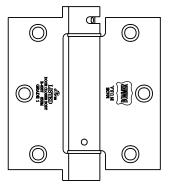


**LUBE BEARING LB4300C SERIES** 

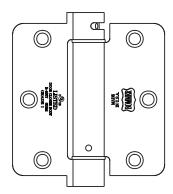
## UL US LISTED GRADE 1

CONTRACT GRADE PATENT 6,460,220

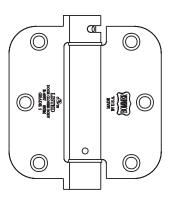
BHMA Certified Grade 1 For 1 MILLION CYCLES



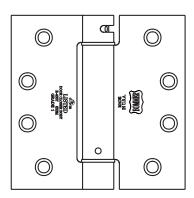
LB4310C-350 Square Corner



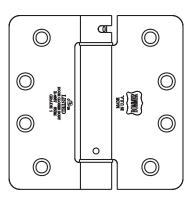
LB4311C-350 1/4" Radius



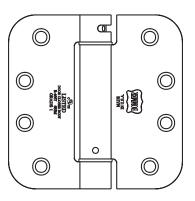
LB4312C-350 5/8" Radius



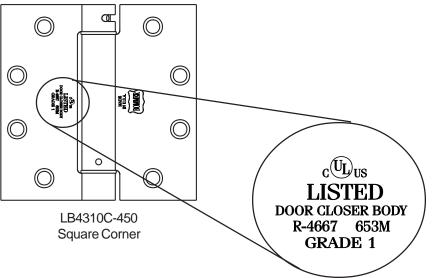
LB4310C-400 Square Corner



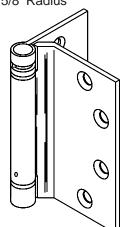
LB4311C-400 1/4" Radius



LB4312C-400 5/8" Radius



All Bommer LB4300 Series Hinges Have the UL Listing Mark Stamped on each Hinge



LB4313C-045 Half Surface



**Single Acting Spring Hinges LUBE BEARING LB4300C SERIES CONTRACT GRADE** PATENT 6.460.220

LB4310C STEEL FULL MORTISE - ANSI K81071F LB4311C STEEL FULL MORTISE - ANSI K81071F LB4312C STEEL FULL MORTISE - ANSI K81071F LB4313C STEEL

HALF SURFACE - ANSI K81081F

LB4390C STAINLESS STEEL FULL MORTISE - ANSI K51071F LB4391C STAINLESS STEEL FULL MORTISE - ANSI K51071F

LB4392C STAINLESS STEEL • NON-HANDED

FULL MORTISE - ANSI K51071F

- UL LISTED FOR FIRE DOOR APPLICATIONS
- STEEL & STAINLESS STEEL MATERIAL
- SELF LUBRICATING BEARINGS
- EASILY ADJUSTABLE SPRING TENSION
- ANSI TEMPLATED SCREW HOLE PATTERN
- PIVOT POINT ALIGNS WITH COMMERCIAL BUTT HINGES GAGE .123 TO .134



**BHMA Certified Grade 1** For 1 MILLION CYCLES

			Gauge of		Number		& Quantity Per inge	Hinge (	Quantity	Average Case
Item no.	Hinge Size	Corners	Metal	Hole Pattern	Holes	Wood	Machine	Box	Case	Weight
LB4310C-350	3 1/2" x 3 1/2"	Square	.130	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	37lbs.
LB4311C-350	3 1/2" x 3 1/2"	1/4" Radius	.130	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	37lbs.
LB4312C-350	3 1/2" x 3 1/2"	5/8" Radius	.130	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	37lbs.
LB4390C-350	3 1/2" x 3 1/2"	Square	.130	Template	6	( 6 ) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	37lbs.
LB4391C-350	3 1/2" x 3 1/2"	1/4" Radius	.130	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	37lbs.
LB4392C-350	3 1/2" x 3 1/2"	5/8" Radius	.130	Template	6	(6) #10 x 3/4"	( 6 ) #10-24x 1/2"	2	40ea.	37lbs.
LB4310C-400	4" x 4"	Square	.130	Template	8	(8) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	42lbs.
LB4311C-400	4" x 4"	1/4" Radius	.130	Template	8	(8) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	42 <b>l</b> bs.
LB4312C-400	4" x 4"	5/8" Radius	.130	Template	8	(8) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	42lbs.
LB4390C-400	4" x 4"	Square	.130	Template	8	(8) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	42lbs.
LB4391C-400	4" x 4"	1/4" Radius	.130	Template	8	(8) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	42lbs.
LB4392C-400	4" x 4"	5/8" Radius	.130	Template	8	(8) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	42lbs.
LB4310C-454	4 1/2" x 4"	Square	.134	Template	8	(4) #12 x 1 1/4"	( 8 ) #12-24x 1/2"	2	40ea.	42lbs.
LB4390C-454	4 1/2" x 4"	Square	.134	Template	8	( 4 ) #12 x 1 1/4"	( 8 ) #12 <b>-</b> 24x 1/2"	2	40ea.	42lbs.
LB4310C-450	4 1/2" x 4 1/2"	Square	.134	Template	8	(4) #12 x 1 1/4"	( 8 ) #12-24x 1/2"	2	40ea.	47lbs.
LB4390C-450	4 1/2" x 4 1/2"	Square	.134	Template	8	(4) #12 x 1 1/4"	(8) #12-24x 1/2"	2	40ea.	47lbs.
LB4313C-045 Half Surface	4 1/2"	Square	.134	Jamb-Template Door-Special	8		2 x 1 1/4" ) x 2" w/ nuts	2	40ea.	32lbs.



4010 STEEL NON-TEMPLATE ANSI K81011

4020 STEEL standard 4 1/2"MORTISE ANSI K81071

CL4010 STEEL CLASSIC BALL TIP ANSI K81011

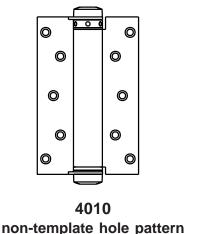
## CL4020 STEEL CLASSIC BALL TIP

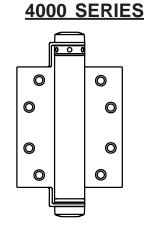
ANSI K81071

- NON-HANDED
- STEEL MATERIAL
- AVAILABLE WITH REVERSE SPRING
- CLASSIC MODELS AVAILABLE WITH BALL TIPS 6" & 7" ONLY
- EASILY ADJUSTABLE SPRING TENSION
- PIVOT POINTS DO NOT ALIGN WITH STANDARD FULL MORTISE HINGES

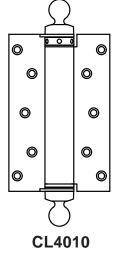
**PLEASE NOTE:** Always request a current template from the factory to assure you are ordering the correct hinge.

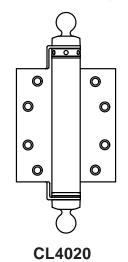
## **Single Acting Spring Hinges**





4020 4 1/2"template hole pattern





ball tip non-template hole pattern

ball tip
4 1/2"template hole pattern

#### HINGE SELECTION FOR MAXIMUM DOOR SIZE

ITEM	2 HIN	IGES	3 HIN	DOOR			/ SIZE & PER HINGE	QUAN	ITITY	AVERAGE WEIGHT
NUMBER	DOOR WEIGHT	DOOR WIDTH	DOOR WEIGHT	DOOR WIDTH	THICKNESS	WOOD SCREWS	MACHINE SCREWS	вох	CASE	PER CASE
4010-3	45	2'-4"	65	2'-8"	3/4" TO 1"	(8) 7 X 3/4"		2 ea.	48 Ea.	30 lbs.
4010-6 CL4010-6	125	3'-0"	155	4'-0"	1 3/4"	( 10 ) 10 X 1"	( 10 ) 10-24 X 1/2"	2 ea.	20 Ea.	53 lbs.
4010-7 CL4010-7	130	3'-6"	175	4'-6"	2"	( 10 ) 12 X1 1/4"	( 10 ) 12-24 X 1/2"	2 ea.	16 Ea.	50 lbs.
4020-6 CL4020-6	125	3'-0"	155	4'-0"	1 3/4"	( 10 ) 12 X1 1/4"	( 10 ) 12-24 X 1/2"	2 ea.	12 Ea.	53 lbs.

#### **NOTES:**

Reverse springs available, please specify R after item number when ordering

SH-10



4030 STEEL STANDARD 4 1/2" MORTISE ANSI K81071F

4040 STEEL NON-TEMPLATE ANSI K81011F

CL4030 STEEL CLASSIC BALL TIP ANSI K81011

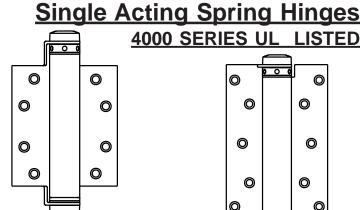
CL4040 STEEL CLASSIC BALL TIP **ANSI K81071** 



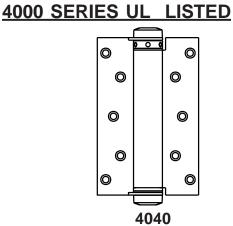
**BHMA Certified Grade 1** For 1 MILLION CYCLES

- NON-HANDED
- STEEL MATERIAL
- CLASSIC MODELS AVAILABLE WITH BALL TIPS
- UL LISTED FOR FIRE DOOR APPLICATIONS
- FACTORY SET SPRING TENSION
- PIVOT POINTS DO NOT ALIGN WITH STANDARD FULL MORTISE **HINGES**

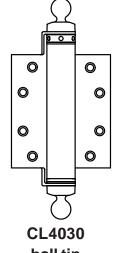
**PLEASE NOTE:** Always request a current template from the factory to assure you are ordering the correct hinge.

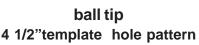


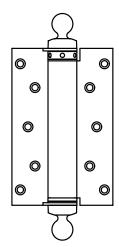




non-template hole pattern







ball tip non-template hole pattern

**CL4040** 

Labeled Doors - Maximum door sizes and number of hinges required is based on limits set by NFPA Standard # 80 ( 2 spring hinges minimum )

These hinges are listed by UL for fire rated openings up to and including 3 hour, A label openings. Maximum door size - 3'-0" x 7'-0" x 1 3/4" as set by NFPA Standard # 80

**PLEASE NOTE**: Always verify local fire code requirements

Non-Labeled Doors - Maximum door width - 4'-0". For doors over 7'-6" in height, use an additional hinge for each additional 30" of height or fraction thereof.

#### HINGE SELECTION FOR MAXIMUM DOOR SIZE

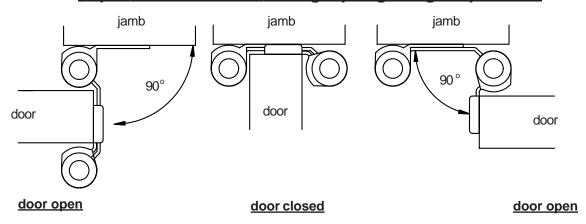
ITEM	2 HIN	IGES	3 HIN	IGES	DOOR		/ SIZE & PER HINGE	QUAN	ITITY	AVERAGE WEIGHT
NUMBER	DOOR WEIGHT	DOOR WIDTH	DOOR WEIGHT	DOOR WIDTH	THICKNESS	WOOD SCREWS	MACHINE SCREWS	вох	CASE	PER CASE
4030-6 CL4030-6	125	3'-0"	155	4'-0"	1 3/4"	(8) 12 x 1 1/4"	( 8 ) 12- 24 X 1/2"	2 ea.	12 ea.	53 lbs.
4040-6 CL4040-6	125	3'-0"	155	4'-0"	1 3/4"	( 10 ) 10 x 1"	( 10 ) 10-24 X 1/2"	2 ea.	12 ea.	53 lbs.
4040-7 CL4040-7	130	3'-6"	175	4'-0"	2"	( 10 ) 12 x 1 1/4"	( 10 ) 12-24 X 1/2"	2 ea.	8 ea.	50 lbs.



3000 Series

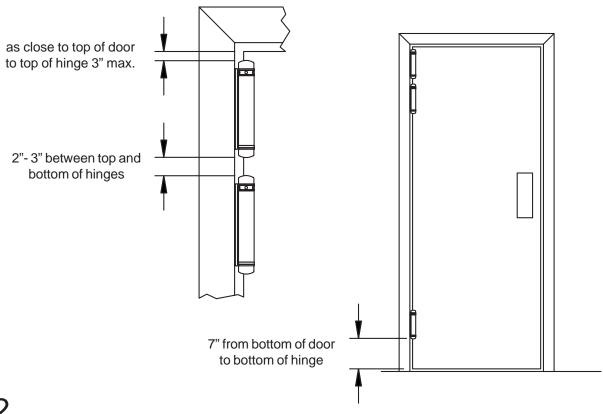
- Permits doors to open in either direction and automatically return to closed position.
- Provides maximum protection for doors subject to normal abuse of lift trucks, due to resiliency of spring support and shock absorbing reaction of flexible mounting.
- Available in size to accommodate a wide range of door sizes and weights.
- Adjustable spring tension permits power and speed adjustment of each size spring hinge.
- No hanging strip is required on frame.

#### Top View of Double Acting Spring Hinge Operation



#### **Guide Lines for Double Acting Hinge Locations on Doors**

It is advisable to use three hinges on a door. The center hinge should be installed as close as possible to the top hinge for maximum support.





## **Double Acting Spring Hinges**3000 Series

3029- 3" through 8" MORTISE

ANSI K81041

CL3029- 5", 6" & 7" BALL TIPS

#### **ANSI K81041**

- DOOR FLANGE IS MORTISED INTO EDGE OF DOOR
- CLASSIC MODELS AVAILABLE WITH BALL TIPS 5", 6" & 7" ONLY
- JAMB FLANGE IS SURFACE APPLIED TO JAMB
- STEEL MATERIAL
- NON-TEMPLATE
- NON-HANDED
- DO NOT USE ON DOORS WITH HINGE EDGE BEVELED
- ALL WOOD SCREWS

3029-5 x 3 1/2" MORTISE

3029-6 x 4 1/2" MORTISE

3029-8 x 4 1/2" MORTISE

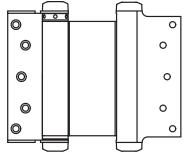
**ANSI K81151** 

CL3029- 5 x 3 1/2" BALL TIPS

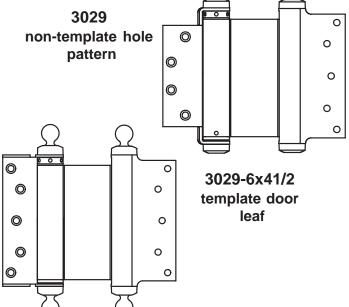
CL3029-6 x 4 1/2" BALL TIPS

#### **ANSI K81151**

- DOOR FLANGE IS MORTISED INTO EDGE OF DOOR
- CLASSIC MODELS AVAILABLE WITH BALL TIPS 5" & 6" ONLY
- JAMB FLANGE IS SURFACE APPLIED TO JAMB
- STEEL MATERIAL
- •TEMPLATE DOOR LEAF
- NON-HANDED
- DO NOT USE ON DOORS WITH HINGE EDGE BEVELED
- ALL MACHINE SCREWS



CL3029



## ball tips 3029 HINGE SELECTION FOR MAXIMUM DOOR SIZE

ITEM	2 HIN	IGES	3 HIN	IGES	DOOR	MINIMUM	QUA	YTITY	AVERAGE
NUMBER	DOOR WEIGHT	DOOR WIDTH	DOOR WEIGHT	DOOR WIDTH	1 111101(11200	DOOR HEIGHT	вох	CASE	WEIGHT PER CASE
3029-3	35	2'-0"	39	2'-8"	3/4" to 1"	5'-0"	2 ea.	40 ea.	50 lbs.
3029-4	60	2'-4"	75	3'-0"	7/8" to 1 1/4"	6'-8"	2 ea.	24 ea.	45 lbs.
3029-5 CL3029-5	65	2'-8"	93	3'-0"	1 1/8" to 1 1/2"	6'-8"	2 ea.	16 ea.	48 lbs.
3029-6 CL3029-6	75	2'-8"	107	3'-0"	1 1/4" to 1 3/4"	7'-0"	2 ea.	12 ea.	51 lbs.
3029-7 CL3029-7	82	3'-0"	120	3'-6"	1 3/8" to 2"	7'-0"	2 ea.	8 ea.	46 lbs.
3029-8	103	3'-6"	143	4'-0"	1 1/2" to 2"	7'-0"	2 ea.	6 ea.	54 lbs.
*3029-5x3.5 CL3029-5x3.5	65	2'-8"	93	3'-0"	1 3/8"	6'-8"	2 ea.	16 ea.	48 lbs.
*3029-6x4.5 CL3029-6x4.5	75	2'-8"	107	3'-0"	1 3/4"	7'-0"	2 ea.	12 ea.	50 lbs.
*3029-8x4.5	103	3'-6"	143	4'-0"	1 3/4"	7'-0"	2 ea.	6 ea.	52 lbs.

<sup>\*</sup> Hinges will fit into standard full mortise hinge cutout in hollow metal door; but if standard hinge locations are furnished on 1 3/4" hollow metal doors, we recommend using 3029-8 x 4 1/2 hinges for maximum support. Request template from factory for door and frame clearance required.

"Over 125 Years of Quality"



3000 Series

3023 top view

jamb

door

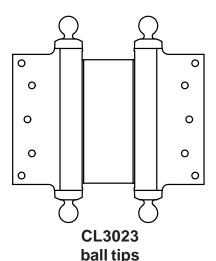
3023-3" through 8"HALF SURFACE

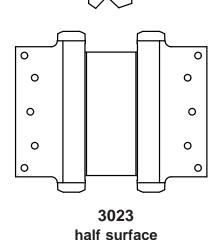
ANSI K81131

CL3023-5", 6" & 7"BALL TIPS

**ANSI K81131** 

- DOOR FLANGE IS SURFACE APPLIED TO FACE OF DOOR
- CLASSIC MODELS AVAILABLE WITH BALL TIPS 5", 6" & 7" ONLY
- JAMB FLANGE IS SURFACE APPLIED TO JAMB
- STEEL MATERIAL
- NON-TEMPLATE
- NON-HANDED
- DO NOT USE ON DOORS WITH HINGE EDGE BEVELED
- PACKED WITH ALL WOOD SCREWS





3023 HINGE SELECTION FOR MAXIMUM DOOR SIZE

ITEM	2 HIN	IGES	3 HIN	IGES	DOOR	MINIMUM	QUAN	YTITY	AVERAGE
NUMBER	DOOR WEIGHT	DOOR WIDTH	DOOR WEIGHT	DOOR THICKNESS WIDTH		DOOR HEIGHT	вох	CASE	WEIGHT PER CASE
3023-3	35	2'-0"	39	2'-8"	3/4" to 1"	5'-0"	2 ea.	40 ea.	50 lbs.
3023-4	60	2'-4"	75	3'-0"	7/8" to 1 1/4"	6'-8"	2 ea.	24 ea.	45 lbs.
3023-5 CL3023-5	65	2'-8"	93	3'-0"	1 1/8" to 1 1/2"	6'-8"	2 ea.	16 ea.	48 lbs.
3023-6 CL3023-6	75	2'-8"	107	3'-0"	1 1/4" to 1 3/4"	7'-0"	2 ea.	12 ea.	51 lbs.
3023-7 CL3023-7	82	3'-0"	120	3'-6"	1 3/8" to 2"	7'-0"	2 ea.	8 ea.	46 lbs.
3023-8	103	3'-6"	143	4'-0"	1 1/2" to 2"	7'-0"	2 ea.	6 ea.	54 lbs.



3000 Series

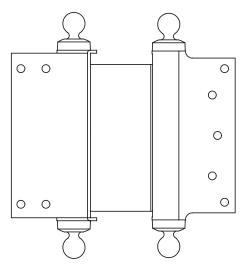
3024- 4" through 8" CLAMP FLANGE

**ANSI K81111** 

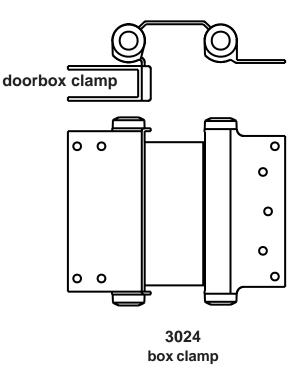
CL3024- 5", 6" & 7" BALL TIPS

**ANSI K81111** 

- BOX CLAMP TYPE DOOR FLANGE IS ATTACHED TO DOOR WITH THRU BOLTS AND NUTS
- CLASSIC MODELS AVAILABLE WITH BALL TIPS 5", 6" & 7" ONLY
- JAMB FLANGE IS SURFACE APPLIED TO JAMB
- STEEL MATERIAL
- NON-TEMPLATE
- NON-HANDED
- PACKED WITH THROUGH BOLTS AND MACHINE SCREWS
- CLAMP FLANGES ARE NOT ADJUSTABLE. THICKNESS OF THE DOOR MUST BE INCLUDED ON ORDER







CL3024 ball tips

#### 3024 HINGE SELECTION FOR MAXIMUM DOOR SIZE

ITEM	2 HIN	IGES	3 HIN	IGES		MINIMUM	QUAI	YTITY	AVERAGE	
NUMBER	DOOR WEIGHT	DOOR WIDTH	DOOR WEIGHT	DOOR WIDTH	DOOR THICKNESS	DOOR HEIGHT	вох	CASE	WEIGHT PER CASE	
3024-4	60	2'-4"	75	3'-0"	7/8", 1", 1 1/8"	6'-8"	2 ea.	16 ea.	38 lbs.	
3024-5 CL3024-5	65	2'-8"	93	3'-0"	1 1/8", 1 1/4"	6'-8"	2 ea.	16 ea.	56 lbs.	
3024-6 CL3024-6	75	2'-8"	107	3'-0"	1 1/4", 1 3/8", 1 1/2"	7'-0"	2 ea.	12 ea.	63 lbs.	
3024-7 CL3024-7	82	3'-0"	120	3'-6"	1 3/8", 1 1/2", 1 5/8"	7'-0"	2 ea.	8 ea.	58 lbs.	
3024-8	103	3'-6"	143	4'-0"	1 1/2", 1 5/8", 1 3/4", 1	7'-0"	2 ea.	4 ea.	46 lbs.	
6	-	-	-		7/8'				-	

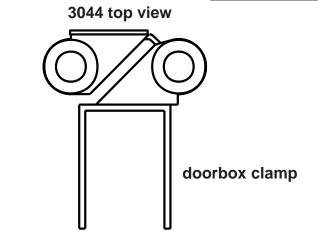


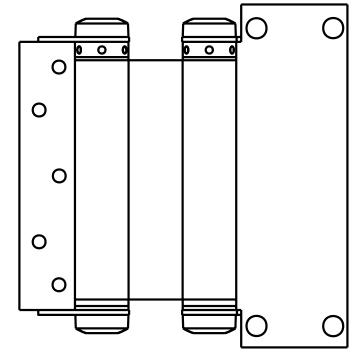
3000 Series

#### 3044-8" CLAMP FLANGE - INDUSTRIAL

#### **ANSI K81091**

- BOX CLAMP TYPE DOOR FLANGE IS ATTACHED TO DOOR WITH THRU BOLTS AND NUTS
- JAMB FLANGE IS SECURED TO FRAME WITH SCREWS
- •STEELMATERIAL
- NON-TEMPLATE
- NON-HANDED
- STANDARD SCREWS PACKED WITH HINGE
  - (4) 5/16"-18 x 2 1/2" HEX. HEAD THRU BOLTS AND NUTS
  - (5) 1/4-20 x 5/8" FLATHEAD CAP SCREWS
  - (5) 1/4" EXTERNAL TOOTH COUNTERSUNK LOCK WASHERS
- HINGE LOCATION
- 2 HINGES ONE AT TOP, ONE AT BOTTOM
- 3 HINGES TWO AT TOP, ONE AT BOTTOM
- 4 HINGES TWO AT TOP, ONE AT BOTTOM,
- ONE INTERMEDIATE
- CLAMP FLANGES ARE NOT ADJUSTABLE. THICKNESS OF THE DOOR MUST BE INCLUDED ON ORDER





3044 box clamp

## 3044 HINGE SELECTION FOR MAXIMUM DOOR SIZE & WEIGHTS FOR DOORS 7'-0" MINIMUM HEIGHT

ITEM	DOOR	2 HINGES	3 HINGES	4 HINGES	DOOR	QUAN	NTITY	AVERAGE
NUMBER	WIDTH	DOOR WEIGHT	DOOR WEIGHT	DOOR WEIGHT	THICKNESS	вох	CASE	WEIGHT PER CASE
	3'-0"	265	400	560	1 3/4"			
	3'-6"	245	360	500	1 7/8"			
3044-8	4'-0"	225	320	440	2 "	2 ea.	4 ea.	44 lbs.
	4'-6"	185	280	380	2 1/4"			
	5'-0"	165	240	320	2 1/2"			



## **Door Bumpers Heavy Duty**

170/175 Series

### 170 - 19

Door Bumper - Industrial Type Materials

Spring Steel

.125 Thick ANSI K87434

Stainless Steel

.109 Thick ANSI K57434

#### 170 - 32

Door Bumper - Industrial Type Materials

Spring Steel

.125 Thick ANSI K87434

Stainless Steel

.109 Thick ANSI K57434

#### 175 - 19

Door Bumper - Industrial Type Materials

Spring Steel

.125 Thick ANSI K87434

Stainless Steel

.109 Thick ANSI K57434

#### 175 - 32

Door Bumper - Industrial Type Materials

Spring Steel

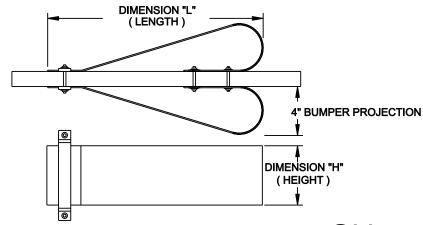
- .125 Thick ANSI K87434
- Stainless Steel
- .109 Thick ANSI K57434

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SERIES 170 AND 175 DOOR BUMPERS										
ITEM NUMBER	STANDARD PACKAGING	AVERAGE WEIGHT PER								
170-19 19" 8" (1) Bumper 12 lbs.										
170-32	32"	8"	(1) Back Plate	16 lbs.						
175-19 19" 10" (1) Mounting Bracket 14										
175-32	32"	10"	( 6 ) 5/16-18 thru bolts and nuts	20 lbs.						

- BACK PLATE PROTECTS
   FACE OF DOOR FROM WEAR
   CAUSED BY SLIDING MOTION
   OF BUMPER
- SPECIFY DOOR THICKNESS FOR PROPER THRU BOLT LENGTH
- AVAILABLE IN STAINLESS STEEL AND PRIME COAT ON STEEL

Below shows two (2) Bumpers installed back to back on one door. Check the "L" (length) of the bumper for the correct coverage required for door width.





## **Light Duty Double Acting Spring Hinges**

**Light Duty Series** 

## 1514 - LOUVER DOOR HINGE

Fits Louver Doors 7/8" to 1" Thick ANSI K81243

1514H - LOUVER DOOR HINGE WITH HOLD OPEN FEATURE

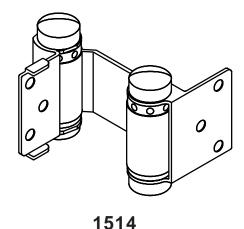
Fits Louver Doors 7/8" to 1" Thick ANSI K81243

1515 - LOUVER DOOR HINGE

Fits Louver Doors 1 1/8" to 1 1/2" Thick ANSI K81243

1515H - LOUVER DOOR HINGE WITH HOLD OPEN FEATURE

Fits Louver Doors 1 1/8" to 1 1/2" Thick **ANSI K81243** 



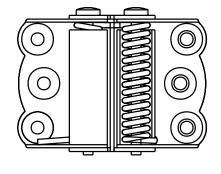
- NON-HANDED
- NON-TEMPLATE
- STEEL MATERIAL
- DOOR FLANGE SURFACE APPLIED OR MORTISED
- JAMB FLANGE SURFACE APPLIED
- EASILY ADJUSTABLE SPRING TENSION
- DOOR SIZES AND WEIGHTS MAXIMUM DOOR WIDTH - 18" MAXIMUM DOOR WEIGHT - 18 lbs. MINIMUM DOOR HEIGHT - 42"

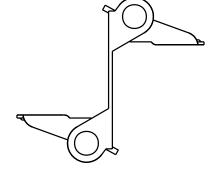
ITEM NUMBER	QUANTITY		WOOD	AVERAGE
	вох	CASE	SCREWS	WEIGHT PER CASE
1514	2 ea.	40 ea.	(6)7x3/4	20 lbs.
1514-H	2 ea.	40 ea.	(6)7x3/4 (4)6x3/4	20 lbs.
1515	2 ea.	40 ea.	(6)7x3/4	20 lbs.
1515-H	2ea.	40 ea.	(6)7x3/4 (4)6x3/4	20 lbs.

## 9700 - GATE HINGE

#### **ANSI K84243**

- NON-HANDED
- NON-ADJUSTABLE TENSION
- STEEL MATERIAL
- SURFACE APPLIED TO GATE **AND JAMB**
- FOR DOORS UP TO 1 1/8" THICK
- SIZE 2 3/4"
- (6) No. 7 x 3/4" WS, PER HINGE 12 HINGES PER CASE 8 lbs. AVERAGE WEIGHT PER CASE

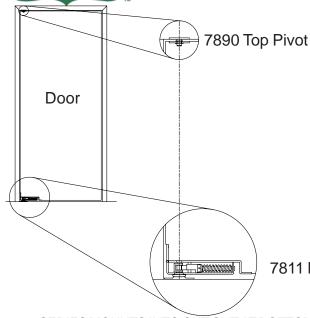


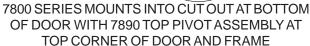


**Front View** 

**Top View** 

## Spring Pivots Horizontal Type 7800 SERIES



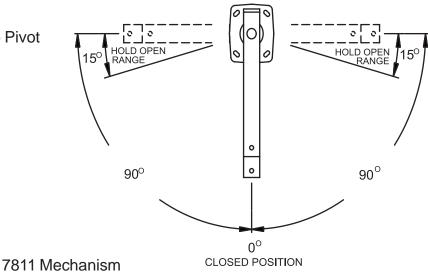


7801 - WITH FLOOR PLATE LIGHT DUTY MODEL FOR USE WITH DOORS UP TO 35 LBS. ANSI K82193

7802 - WITH JAMB BRACKET LIGHT DUTY MODEL FOR USE WITH DOORS UP TO 35 LBS.

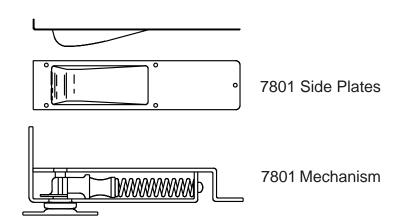
ANSI K82193

- MALLEABLE IRON AND STEEL MECHANISM
- STEEL TRIM
- ANTI FRICTION BEARING
- DOUBLE ACTING
- HOLD OPEN AT APPROXIMATELY 85 DEGREES
- NON-ADJUSTABLE SPRING TENSION
- PACKED ONE SET PER BOX WITH WOOD SCREWS
- NON-HANDED



#### 7800 SERIES RANGE OF MOTION

7801 HOLD OPEN FEATURE / 7802 HOLD OPEN FEATURE 7811 HOLD OPEN FEATURE / 7812 HOLD OPEN FEATURE 7813 NON-HOLD OPEN / 7814 NON-HOLD OPEN 7813HD NON-HOLD OPEN / 7814HD NON-HOLD OPEN 7821 HOLD OPEN FEATURE / 7822 HOLD OPEN FEATURE



ITEM SI	SIDE PLATE	DOOR	MAXIMUM DOOR		QUANTITY PER CASE	AVERAGE WEIGHT PER CASE
NUMBER MATERIAL		THICKNESS	WIDTH	WEIGHT		
7801	STEEL	1 3/8 TO 1 3/4	3'-0"	35 lbs.	8	25 lbs.
7802	STEEL	1 3/8 TO 1 3/4	3'-0"	35 lbs.	8	25 lbs.
7811	STEEL	1 3/8 TO 1 3/4	3'-0"	90 lbs.	8	32 lbs.
7812	STEEL	1 3/8 TO 1 3/4	3'-0"	90 lbs.	8	32 lbs.
7813	STEEL	1 3/8 TO 1 3/4	3'-0"	90 lbs.	8	32 lbs.
7814	STEEL	1 3/8 TO 1 3/4	3'-0"	90 lbs.	8	32 lbs.
7813HD	STEEL	1 3/8 TO 1 3/4	3'-6"	150 lbs.	8	36 lbs.
7814HD	STEEL	1 3/8 TO 1 3/4	3'-6"	150 lbs.	8	36 lbs.
7821	BRASS	1 3/8 TO 1 3/4	3'-0"	90 lbs.	8	32 lbs.
7822	BRASS	1 3/8 TO 1 3/4	3'-0"	90 lbs.	8	32 lbs.

# Bommer over 125 years of quality

## Spring Pivots Horizontal Type 7800 SERIES

7811 - WITH FLOOR PLATE HOLD OPEN IN BOTH DIRECTIONS MEDIUM DUTY MODEL FOR USE WITH DOORS UP TO 90 LBS. ANSI K82193

7812 - WITH JAMB BRACKET HOLD OPEN IN BOTH DIRECTIONS MEDIUM DUTY MODEL FOR USE WITH DOORS UP TO 90 LBS. ANSI K82193

7813 - WITH FLOOR PLATE
NON-HOLD OPEN MODEL
MEDIUM DUTY MODEL FOR USE WITH
DOORS UP TO 90 LBS.
ANSI K82193
7814 - WITH JAMB BRACKET
NON-HOLD OPEN MODEL
MEDIUM DUTY MODEL FOR USE WITH
DOORS UP TO 90 LBS.
ANSI K82193

HEAVY DUTY MODEL FOR USE WITH DOORS UP TO 150 LBS.

NON-HOLD OPEN MODEL

ANSI K82193

7814HD - WITH JAMB BRACKET

HEAVY DUTY MODEL FOR USE WITH

DOORS UP TO 150 LBS.

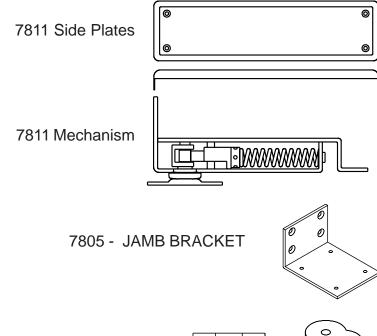
NON-HOLD OPEN MODEL

ANSI K82193

7813HD - WITH FLOOR PLATE

7821 - WITH FLOOR PLATE HOLD OPEN IN BOTH DIRECTIONS WITH BRASS TRIM MEDIUM DUTY MODEL FOR USE WITH DOORS UP TO 90 LBS. ANSI K82193

7822 - WITH JAMB BRACKET HOLD OPEN IN BOTH DIRECTIONS WITH BRASS TRIM MEDIUM DUTY MODEL FOR USE WITH DOORS UP TO 90 LBS. ANSI K82193



7890 - TOP PIVOT ASSEMBLY



NOTES: FOR THE 7813HD & 7814HD HEAVY DUTY PIVOT FITS INTO THE SAME CUT OUT AT BOTTOM OF DOOR AND USES THE SAME TOP PIVOT AS THE 7801, 7802, 7813 AND 7814 FOR EASY RETRO FIT, OR THE NEW 7890 TOP PIVOT ASSEMBLY CAN BE RETRO FITTED INTO THE TOP OF THE DOOR.

- STEEL MECHANISM
- 7811 & 7812 WITH STEEL TRIM
- 7821 & 7822 WITH BRASS TRIM
- ANTI FRICTION BEARING
- DOUBLE ACTING
- 7811, 7812, 7821 & 7822 HOLD OPEN AT APPROXIMATELY 85 to 90 DEGREES
- 7813, 7814, 7813HD & 7814HD ARE NON-HOLD OPEN
- 7813HD & 7814HD ARE FOR HEAVY DUTY APPLICATIONS
- ADJUSTABLE SPRING TENSION
- NON-HANDED
- PACKED ONE SET PER BOX WITH WOOD SCREWS



### Spring Pivots 7000 SERIES

#### NON-ADJUSTABLE SPRING TENSION

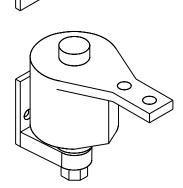
### 7012 SURFACE PIVOT

ANSI K63211

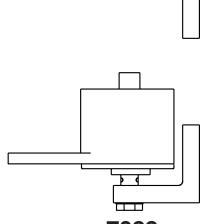
7022 MORTISE PIVOT

ANSI K63321

- CAST STEEL BASE
- DOUBLE ACTING
- BALL BEARING
- NON-ADJUSTABLE SPRING TENSION
- NON-HANDED
- MAXIMUM DOOR SIZE AND WEIGHT WIDTH - 36" THICKNESS - 2 1/2" WEIGHT - 75 lbs.
- FLAT DOOR BRACKET FOR DOORS NOT LESS THAN 1" THICK
- FLAT JAMB BRACKET 1 1/4" WIDE
- STANDARD PACKAGING PER BOX
  - (1) PIVOT
  - (1) EA. JAMB & DOOR BRACKET
  - (1) 7890 TOP PIVOT ASSEMBLY WITH JAMB BRACKET
  - (8) No. 12 x 1 1/4" FLAT HEAD WOOD SCREWS
  - (2) No. 10 x 1" FLAT HEAD WOOD SCREWS
- 8 PIVOTS PER CASE, AVERAGE WEIGHT PER CASE 26 lbs.







7022

#### **7100 SERIES**

7122

#### ADJUSTABLE SPRING TENSION

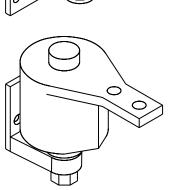
#### 7112 SURFACE PIVOT

ANSI K63201

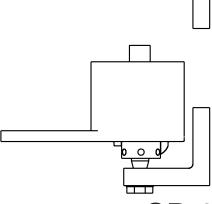
#### 7122 MORTISE PIVOT

ANSI K63311

- CAST STEEL BASE
- DOUBLE ACTING
- BALL BEARING
- ADJUSTABLE SPRING TENSION
- NON-HANDED
- MAXIMUM DOOR SIZE AND WEIGHT WIDTH - 36" THICKNESS - 2 1/2" WEIGHT - 75 lbs.
- FLAT DOOR BRACKET FOR DOORS NOT LESS THAN 1" THICK
- FLAT JAMB BRACKET 1 1/4" WIDE
- STANDARD PACKAGING PER BOX
  - (1) PIVOT
  - (1) EA. JAMB & DOOR BRACKET
  - (1) 7890 TOP PIVOT ASSEMBLY WITH JAMB BRACKET
  - (8) No. 12 x 1 1/4" FLAT HEAD WOOD SCREWS
  - (2) No. 10 x 1" FLAT HEAD WOOD SCREWS
- 8 PIVOTS PER CASE, AVERAGE WEIGHT PER CASE 28 lbs.





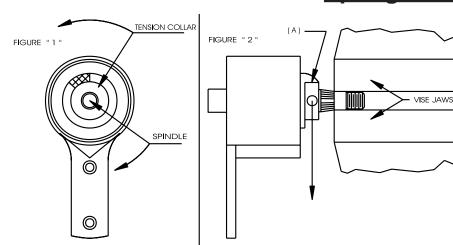




## INSTRUCTIONS TO REACTIVATE 7100 AND 7300 SERIES PIVOTS

If a pivot fails to close the door in one or both direction , the unit can be reactivated as follows:

- (1) Remove pin from tension collar.
- (2) Remove the pivot from the door and bracket.
- (3) Viewing the pivot from the threaded end, (see figure "1") and with the mounting bracket toward you, turn the tension collar to the left (counterclockwise) until it comes to a stop. Hold the tension collar in this position while turning the threaded spindle to the right (clockwise) until it comes to a stop.



- (4) Place the threaded spindle in a vise, gripping it on the 1/2" Dia. (see figure "2") so the spindle is horizontal and mounting bracket is still toward you.
- (5) Place the tension rod in tension collar hole near the cover plate stop (A) and turn the collar toward you (counterclockwise) until spring tension is felt.

Insert the tension pin into the hole in the tension collar close to the stop (A) on the cover plate. Pin must be inserted fully into the hole with the shoulder of the pin against the tension collar allow the spring tension to rotate the collar and tension pin toward the stop (A) until the pin contacts the stop. Reinstall on door.

**Spring Pivots** 

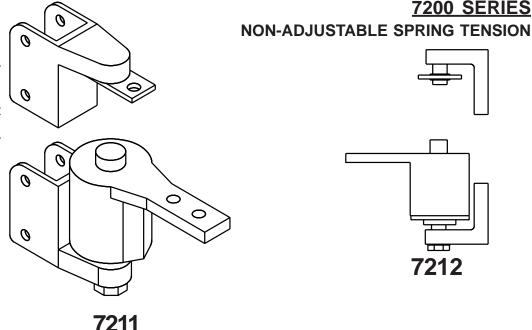
### 7211 SURFACE PIVOT

Flat Door Bracket Box Clamp Jamb Bracket

#### 7212 SURFACE PIVOT

Flat Door Bracket Flat Jamb Bracket

- BRASS
- DOUBLE ACTING
- NON-ADJUSTABLE SPRING TENSION
- NON-HANDED
- MAXIMUM DOOR SIZE AND WEIGHT WIDTH - 30" THICKNESS - 1 7/8" WEIGHT - 50 lbs.
- FLAT DOOR BRACKET FOR DOORS NOT LESS THAN 3/4" THICK
- FLAT JAMB BRACKET
   1 1/4" WIDE
- BOX CLAMP JAMB BRACKET FITS 1 1/8" AND 1 1/4" THICK JAMB ONLY



#### PLEASE SPECIFY STYLE THICKNESS

- STANDARD PACKAGING PER BOX
- (1) PIVOT
- (1) EA. JAMB & DOOR BRACKET
- (1) TOP PIVOT ASSEMBLY WITH JAMB BRACKET
- (8) No. 12 x 1 1/4" FLAT HEAD WOOD SCREWS
- (2) No. 10 x 1" FLAT HEAD WOOD SCREWS
- (4) THRU-BOLTS FOR BOX CLAMP
- (8) 7211 PIVOTS PER CASE AVERAGE WEIGHT PER CASE 26 lbs.
- (8) 7212 PIVOTS PER CASE AVERAGE WEIGHT PER CASE 20 lbs.



### 7312 SURFACE PIVOT

Flat Door Bracket Flat Jamb Bracket ANSI K13201

## 7313 SURFACE PIVOT

Box Clamp Door Bracket Box Clamp Jamb Bracket

#### 7314 SURFACE PIVOT

Box Clamp Door Bracket Flat Jamb Bracket

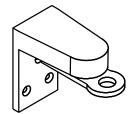
#### 7322 MORTISE PIVOT

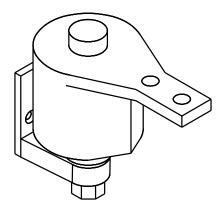
Flat Door Bracket Flat jamb Bracket ANSI K13311

- BRASS
- BALL BEARING
- DOUBLE ACTING
- ADJUSTABLE SPRING TENSION
- NON-HANDED
- MAXIMUM DOOR SIZE AND WEIGHT WIDTH - 36" THICKNESS - 2 1/2" WEIGHT - 75 lbs.
- FLAT DOOR BRACKET FOR DOORS NOT LESS THAN 1" THICK
- FLAT JAMB BRACKET 1 1/4" WIDE
- BOX CLAMP JAMB BRACKET FOR 1 1/8" AND 1 1/4" THICK JAMBS ONLY
- BOX CLAMP DOOR BRACKET FOR 1 1/8" THICK DOORS ONLY
- STANDARD PACKAGING PER BOX
  - (1) PIVOT
  - (1) EA. JAMB & DOOR BRACKET
  - (1) TOP PIVOT ASSEMBLY WITH JAMB

#### **BRACKET**

- (8) No. 12 x 1 1/4" FLAT HEAD WOOD SCREWS
- (2) No. 10 x 1" FLAT HEAD WOOD SCREWS
- (4) THRU-BOLTS AND NUTS
- (8) 7312 PIVOTS PER CASE AVERAGE WEIGHT PER CASE 36 lbs.
- (6) 7313 PIVOTS PER CASE AVERAGE WEIGHT PER CASE 46 lbs.
- (6) 7314 PIVOTS PER CASE AVERAGE WEIGHT PER CASE 44 lbs.
- (8) 7322 PIVOTS PER CASE AVERAGE WEIGHT PER CASE 36 lbs.

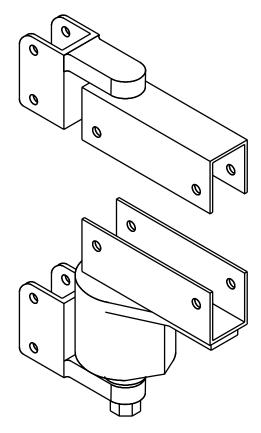




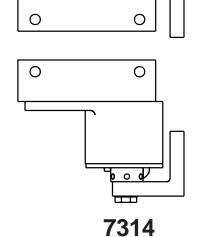
7312

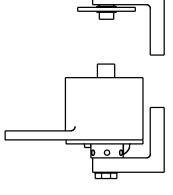
## Spring Pivots 7300 SERIES

#### ADJUSTABLE SPRING TENSION



7313





7322

SP-5



## **Gravity Pivots 7400 SERIES**

## 7411 SURFACE PIVOT

Flat Door Bracket

Box Clamp Jamb Bracket

#### 7412 SURFACE PIVOT

Flat Door Bracket

Flat Jamb Bracket

ANSI K22011

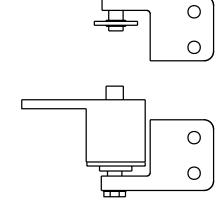
- BRASS
- DOUBLE ACTING
- DOOR WEIGHT CLOSES DOOR NO SPRING
- NON-HANDED
- MAXIMUM DOOR SIZE AND WEIGHT

WIDTH - 24"

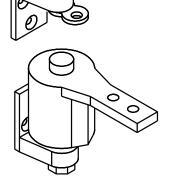
THICKNESS - 17/8"

WEIGHT - 35 lbs.

- FLAT DOOR BRACKET FOR DOORS NOT LESS THAN 3/4" THICK
- FLAT JAMB BRACKET 1 1/4" WIDE
- BOX CLAMP JAMB BRACKET FOR 1 1/8" AND 1 1/4" THICK JAMBS **ONLY**
- STANDARD PACKAGING PER BOX
  - (1) PIVOT
  - (1) EA. JAMB & DOOR BRACKET
  - (1) TOP PIVOT ASSEMBLY WITH JAMB BRACKET
  - (8) No. 10 x 1" FLAT HEAD WOOD SCREWS
- (4) THRU-BOLTS AND NUTS
- (8) 7411 PIVOTS PER CASE, AVERAGE WEIGHT PER CASE 26 lbs.
- (8) 7412 PIVOTS PER CASE, AVERAGE WEIGHT PER CASE 20 lbs.



7411



7412

#### **7500 SERIES 7512** PIVOT FOR LOUVER DOORS

#### Standard Non-Hold Open

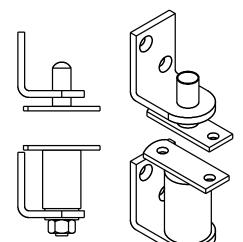
#### **7512-H** PIVOT

Hold Open at 90 Degrees

- STEEL
- DOUBLE ACTING
- DOOR WEIGHT CLOSES DOOR NO SPRING
- NON-HANDED
- MAXIMUM DOOR SIZE AND WEIGHT WIDTH - 30"

WEIGHT - 50 lbs.

- FLAT DOOR BRACKET FOR DOORS 7/8" TO 1 5/8" THICK
- FLAT JAMB BRACKET 1 1/4" WIDE
- STANDARD PACKAGING PER BOX
  - (1) PIVOT
  - (1) TOP PIVOT ASSEMBLY WITH JAMB BRACKET
  - (8) No. 10 x 1" FLAT HEAD WOOD SCREWS
- (20) PIVOTS PER CASE, AVERAGE WEIGHT PER CASE 25 lbs.





## Auxiliary Springs 2000 SERIES

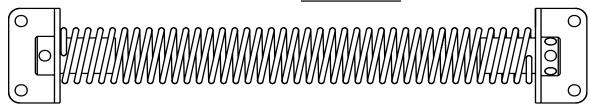


2400 STEEL 2410 STEEL

Wrought Steel Heads Adjustable Spring Tension Economical Closing Device ANSI K87444

ITEM	OVERALL	QUANTITY			AVERAGE
NUMBER	LENGTH	вох	CASE	WOOD SCREWS	WEIGHT PER CASE
2400	8 5/16"	12 ea.	72 ea.	(4)8 x 3/4 ROUND HEAD	35 lbs.
2410	9 5/16"	12 ea.	72 ea.	(4)8 x 3/4 ROUND HEAD	38 lbs.

NOTE: DO NOT APPLY MORE THAN 3 HOLES TENSION, MAXIMUM DOOR WEIGHT 50 lbs.

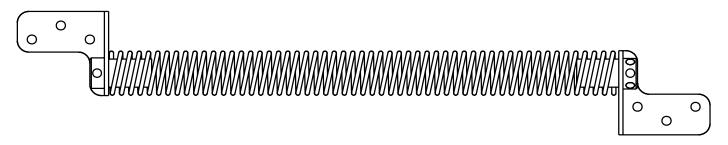


2430 STEEL 2440 STEEL

Wrought Steel Heads Adjustable Spring Tension Economical Closing Device ANSI K87444

ITEM	OVERALL	QUANTITY			AVERAGE	
NUMBER	LENGTH	вох	CASE	WOOD SCREWS	WEIGHT PER CASE	
2430	11 5/8"	6 ea.	24 ea.	(4)12x11/4 ROUND HEAD	32 lbs.	
2440	12 3/4"	6 ea.	24 ea.	( 4 ) 12 x 1 1/4 ROUND HEAD	42 lbs.	

NOTE: DO NOT APPLY MORE THAN 3 HOLES TENSION, MAXIMUM DOOR WEIGHT 50 lbs.



2500 STEEL2510 STEEL2520 STEEL

Wrought Steel Heads Adjustable Spring Tension Economical Closing Device ANSI K87454

ITEM	OVERALL QUANTITY		AVERAGE			
NUMBER	LENGTH	вох	CASE	WOOD SCREWS	WEIGHT PER CASE	
2500	10 7/16"	12 ea.	72 ea.	(6)8 x 3/4 ROUND HEAD	36 lbs.	
2510	13 7/16"	6 ea.	24 ea.	(6)12x11/4 ROUND HEAD	25 lbs.	
2520	14 5/8"	6 ea.	24 ea.	(6)12x11/4 ROUND HEAD	37 lbs.	

NOTE: DO NOT APPLY MORE THAN 3 HOLES TENSION, MAXIMUM DOOR WEIGHT 50 lbs.

# over 125 years of quality

## **Screen Door Spring Hinges**

## **2000 SERIES**

## 2100 FULL SURFACE, STEEL

Adjustable Tension

**Button Tip** 

Available with Reverse Spring

Size: 3" x 3"

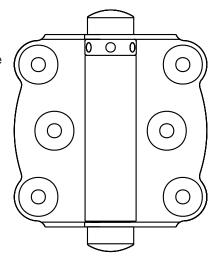
Standard Packaging (2) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 25 lbs.

**ANSI K84223** 



2100



2200

## 2200 HALF SURFACE, STEEL

Adjustable Tension

**Button Tip** 

Available with Reverse Spring

Size: 3"

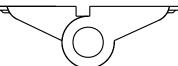
Standard Packaging (2) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 23 lbs.

ANSI K84233





## 2920 FULL SURFACE, STEEL

Adjustable Tension

Loose Pin

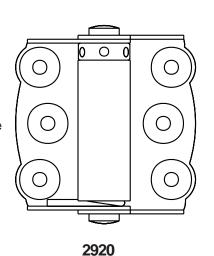
Size: 23/4" x 23/4"

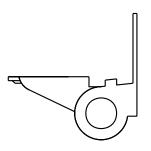
Standard Packaging (2) Per Box

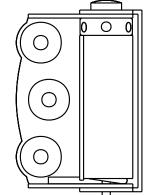
(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 15 lbs.







2930

## 2930 HALF SURFACE, STEEL

Adjustable Tension

Loose Pin Size: 23/4"

Standard Packaging (2) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 20 lbs.



## **Screen Door Spring Hinges**

2000 SERIES

## 2960 FULL SURFACE, STEEL

Non-Adjustable Tension

Loose Pin

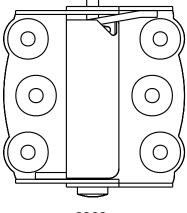
Size: 23/4" x 23/4"

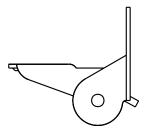
Standard Packaging (24) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 64 lbs.







## 2970 HALF SURFACE, STEEL

Non-Adjustable Tension

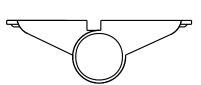
Loose Pin Size: 23/4"

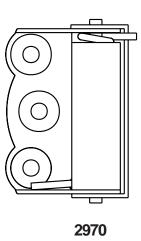
Standard Packaging (24) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 33 lbs.





## 2980 FULL SURFACE, STEEL

Adjustable Tension

**Button Tip** 

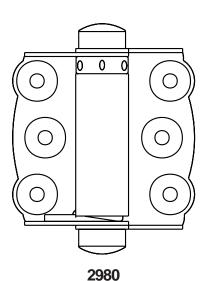
Size: 23/4" x 23/4"

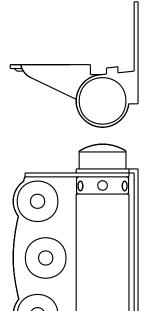
Standard Packaging (2) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 20 lbs.





## 2990 HALF SURFACE, STEEL

Adjustable Tension

**Button Tip** Size: 23/4"

Standard Packaging (2) Per Box

(6) No. 7 x 3/4" Wood Screws Per Hinge

(40) Hinges Per Case

Average Weight Per Case 20 lbs.

2990 SP-9



## **Lavatory Hardware - Door Latches and Bolts**

### **15000 SERIES**

## 15000 THROW LATCH and KEEPER

Wrought Brass

Base Plate - 1 1/2" wide x 2" high

Latch Bar - 3 1/4" long x 7/8" wide x 5/32" thick

Keeper - 1 1/2" wide x 2" high

Standard Packaging (One Set Per Box)

(8) No. 8 x 3/4" Wood Screws Per Set

(36) Per Case

Average Weight Per Case 23 lbs.

## 15001 THROW LATCH and KEEPER

Wrought Brass

Base Plate - 2" wide x 2" high

Latch Bar - 5" long x 1 1/4" wide x 1/4" thick

Keeper - 2" wide x 2" high

Standard Packaging (One Set Per Box)

(8) No. 8 x 3/4" Wood Screws Per Set

(12) Per Case

Average Weight Per Case 12 lbs.

## 15004 RIM BOLT and KEEPER

Wrought Brass

Base Plate - 2" long x 2" high

Latch Bolt - 9/16" wide x 5/32" thick x 3/4" throw

Keeper - 1/2" wide x 2' high

Standard Packaging (6 Sets Per Box)

(6) No. 8 x 3/4" Wood Screws Per Set

(12) Per Case

Average Weight Per Case 24 lbs.

## 15009 RIM BOLT and KEEPER

Cast Brass

Base Plate - 2 9/16" long x 2 1/2' high

Latch Bolt - 7/8" wide x 1/4" thick x 7/16" throw

Keeper - 1 1/4" wide x 2" high

Standard Packaging (One Set Per Box)

(6) No. 8 x 3/4" Wood Screws Per Set

(36) Per Case

Average Weight Per Case 27 lbs.

## 15009H RIM BOLT and KEEPER

#### Same as 15009 Except with Handicap Type Handle

## 15019 RIM BOLT and KEEPER

Same as 15009 Except with Extended Spindle

for use with 15015 or 15016 indicator

**Specify Door Thickness When Ordering** 

Standard Packaging (One Set Per Box)

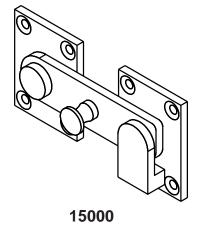
(6) No. 8 x 3/4" Wood Screws Per Set

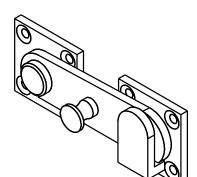
(20) Per Case

Average Weight Per Case 27 lbs.

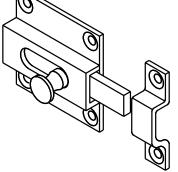
15019H RIM BOLT and KEEPER Same as 15009 Except with Handicap Type Handle

**Specify Door Thickness When Ordering** 

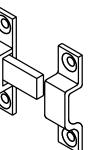


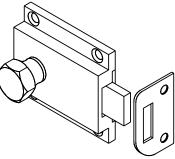


15001

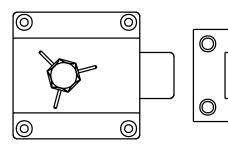


15004





15009



15009H





<u>Lavatory Hardware - Door Bolts, Indicators</u> and Miscellaneous Items

15015

## **15000 SERIES**

## 15015 INDICATOR

#### For use with 15019 and 15019H Only

Diameter - 2 13/16"

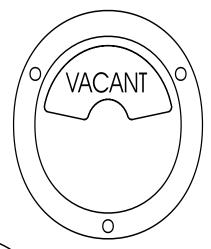
If a Foreign Language is Required the List Number will be 15016F

Standard Packaging

(3) No. 8 x 3/4" Wood Screws Per Indicator

(20) Per Case

Average Weight Per Case 3 lbs.



## 15016 INDICATOR

#### For use with 15019 and 15019H Only

**Brass** 

Diameter - 2 13/16"

Emergency Keyhole on Outside of Door

If a Foreign Language is Required the List Number will be 15016F

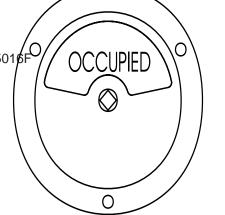
#### **Emergency Key Not Included**

Standard Packaging

(3) No. 8 x 3/4" Wood Screws Per Indicator

(20) Per Case

Average Weight Per Case 3 lbs.



#### 15016

## 15017 EMERGENCY KEY

#### For use with 15016 Indicator



**Cast Brass** 

Center to Center - 4"

Overall Length - 45/8"

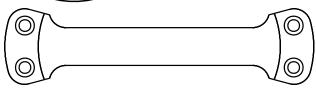
Projection - 1 1/8"

Standard Packaging

(4) No. 8 x 3/4" Wood Screws Per Pull

(48) Per Case

Average Weight Per Case 9 lbs.





#### 15020

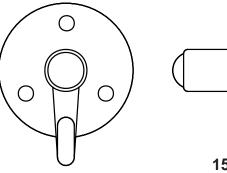
## 15030 COAT and HAT HOOK

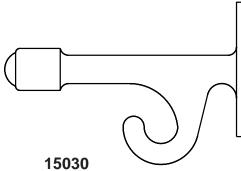
**Cast Brass** Rubber Bumper Base Diameter - 2" Projection - 3 3/4" Standard Packaging

(3) No. 8 x 3/4" Wood Screws Per Hook

(48) Per Case

Average Weight Per Case 21 lbs.





SP-11



## **Lavatory Hardware - Door Strikes and Keepers**

## 1055 DOOR STOP and **KEEPER**

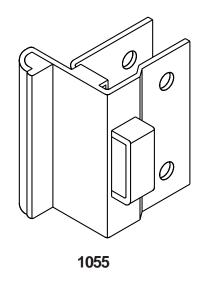
## 1055-P (PIVOT HUNG)

For Rim Bolt 15004 and 15009 For Inswinging Doors Only Wrought Brass Clamp Flange Jamb Bracket Rubber Bumper on Stop Non-Handed Standard Packaging (1) Per Box (2) Thru Bolts and Nuts Packed Per Order

## 1057 DOOR STOP and **KEEPER**

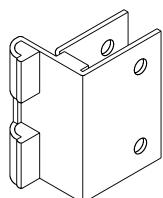
## **1057-P** (PIVOT HUNG)

For Rim Bolt 15004 and 15009 For Outswinging Doors Only Wrought Brass Clamp Flange Jamb Bracket Rubber Bumper on Stop Non-Handed Standard Packaging (1) Per Box (2) Thru Bolts and Nuts Packed Per Order



## **CLAMP TYPE 1050 SERIES**

When Ordering Please Specify **Door Thickness** Jamb Thickness Type Door Mounting (Pivot or Hinge) Type Door Bolt to be Used With Keeper



1057

DOOR	MINIMUM TO MAXIMUM JAMB THICKNESS						
THICKNESS	1055	1055-P	1057	1057-P			
3/4"	3/4" - 1 1/4"	3/4" - 7/8"	3/4" - 1 1/4"	3/4" - 7/8"			
7/8"	7/8" - 1 1/4"	7/8" - 1"	7/8" - 1 1/4"	7/8" - 1"			
1"	1" - 1 1/4"	1" - 1 1/8"	1" - 1 1/4"	1" - 1 1/8"			
1 1/8"	1 1/8" - 1 1/4"	1 1/8" - 1 1/4"	1 1/8" - 1 1/4"	1 1/8" - 1 1/4"			
1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"			

1072

#### 1070 DOOR STOP

Mounted on Door Face Door Stop Only No Keeper

#### 1072 DOOR STOP

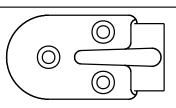
Mounted on Jamb Face Door Stop Only No Keeper

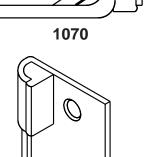
## 1074 DOOR STOP and KEEPER

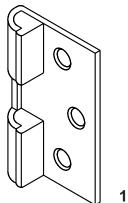
For Inswinging Doors Only Door Stops and Keepers are Available for Doors 3/4", 7/8", 1", 1 1/8", 1 1/4" Thick, and Are Used with Rim Bolt 15004 & 15009 Packed 6 Per Box

## 1075 DOOR STOP and KEEPER

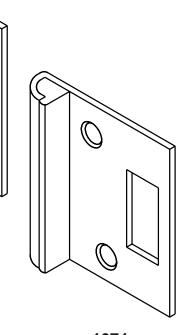
For Outswinging Doors Only Wrought Brass Rubber Bumper on Stop Non-Handed Standard Packaging (1) Per Box No. 8 x 3/4" Wood Screws Packed 6 Per Box







## **FLAT TYPE 1070 SERIES**



1075

1074

SP-12



## **Lavatory Hardware - Partition Mounting Brackets**

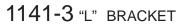
## 1141-1 DOUBLE FLANGE MOUNTING

**BRACKET** 

3/4" Thick Partition Only Standard Packaging (4) Thru Bolts and AJ"S



3/4" Thick Partition Only Standard Packaging (4) Thru Bolts and AJ"S

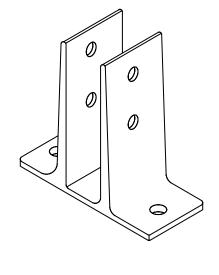


Standard Packaging (4) Thru Bolts and AJ"S

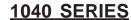
1141-4 "U" BRACKET

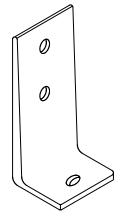
3/4" Thick Partition Only Standard Packaging (4) Thru Bolts and AJ"S

Cast Brass Height 1 1/2" Projection 3 5/16"

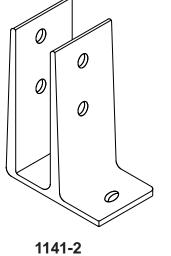


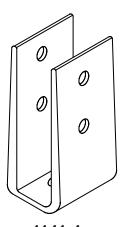
1141-1





1141-3





1141-4

**1142-3** PILASTER COVER & SHOE 3/4" Thick Partition Only

1142-6 PILASTER COVER & SHOE

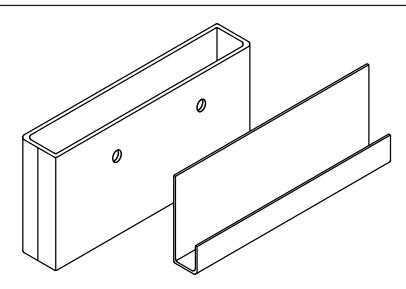
3/4" Thick Partition Only

**1142-8** PILASTER COVER & SHOE 3/4" Thick Partition Only

1142-12 PILASTER COVER & SHOE

3/4" Thick Partition Only Standard Packaging (1) Per Box Thru Bolts, Leveling Nuts and AJ"S

Wrought Brass Pilaster Cover Stainless Steel Shoe Height 3" Available for 3", 6", 8", & 12" Pilasters





## **Lavatory Hardware - Spring Hinges Single Acting**

#### 01000 & 1000 SERIES

#### 1002-4 x 4 FULL SURFACE

- BRASS
- NON-HANDED
- 1/4" RADIUS CORNERS
- ADJUSTABLE SPRING TENSION
- 2 BACKPLATES FURNISHED WITH EACH HINGE
- AVAILABLE WITH HOLD OPEN (1002-4 x 4-H)
- STANDARD PACKAGING (1) PER BOX (4) THRU BOLTS AND NUTS PER HINGE (20) HINGES PER CASE AVERAGE WEIGHT PER CASE 15 lbs.

#### 1001 CLAMP FLANGE FOR DOOR AND JAMB

- BRASS
- LENGTH OF FLANGE 4"
- ADJUSTABLE SPRING TENSION
- AVAILABLE WITH HOLD OPEN (1001-H)
- AVAILABLE FOR DOORS AND JAMBS 7/8" TO 1 3/4" THICK
- STANDARD PACKAGING (2) PER BOX (4) THRU BOLTS AND NUTS PER HINGE (16) HINGES PER CASE AVERAGE WEIGHT PER CASE 40 lbs.
- SPECIFY DOOR AND JAMB THICKNESS

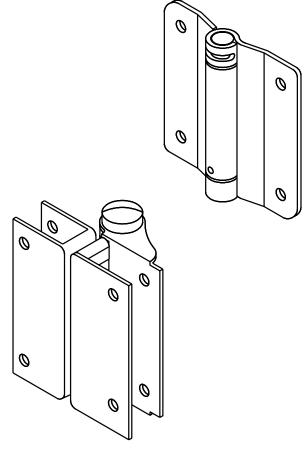
### 01001 CLAMP FLANGE FOR DOOR AND JAMB

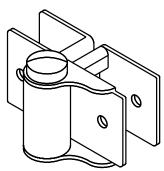
- BRASS
- NON-HANDED
- LENGTH OF FLANGE 2"
- SPRINGLESS HIINGE (NO SPRING)
- USE WITH 1001 SPRING HINGE ON LIGHT WEIGHT DOORS
- AVAILABLE FOR DOORS AND JAMBS 7/8" TO 1 3/4" THICK
- STANDARD PACKAGING (2) PER BOX (4) THRU BOLTS AND NUTS PER HINGE (16) HINGES PER CASE AVERAGE WEIGHT PER CASE 30 lbs.
- SPECIFY DOOR AND JAMB THICKNESS
- USE WITH TYPE 1001 SPRING HINGE ON LIGHT WEIGHT DOORS

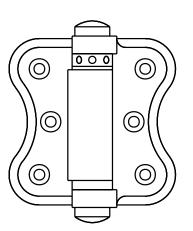
#### 1011 FULL SURFACE

- HEAVY DUTY BRASS CASTING
- LENGTH OF FLANGE 4"
- ADJUSTABLE SPRING TENSION
- AVAILABLE WITH HOLD OPEN (1011-H)
- STANDARD PACKAGING (2) PER BOX
   (6) 1/4 20 x 3/4" MACHINE SCREWS PER HINGE
   (16) HINGES PER CASE

AVERAGE WEIGHT PER CASE 30 lbs.









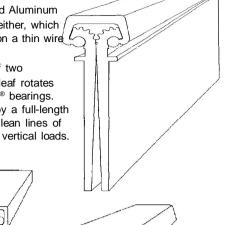


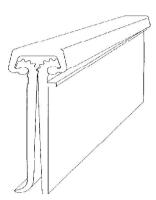
#### What Is a Continuous Geared Aluminum Hinge

 Unlike a conventional hinge, a Continuous Geared Aluminum Hinge has no pin. Also it is not like a piano hinge either, which has 50% of each knuckle cut away, and depends on a thin wire to hold each leaf together.

A Continuous Geared Aluminum Hinge consists of two full-height, paired and geared leafs. Each geared leaf rotates evenly from top to bottom, riding on Delrin® -Teflon® bearings. The geared leafs and bearings are held together by a full-length channel cap. This assembly retains the smooth, clean lines of the door and frame, while easily supporting heavy vertical loads.

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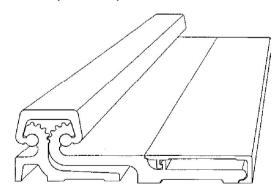


#### Security, Safety, Privacy, Low Wear & Tear

- Unlike conventional hinges, Continuous Geared Aluminum Hinges distribute load stress uniformly along the full length of the door and frame, diffusing wear and tear from closer kickback shock and eliminating door sag and binding.
- The gear design ensures identical operation of each leaf, therefore very little effort is required to open heavy commercial doors.
- The attaching screws for all hinges are located along the full length of each hinge. This prevents warpage of the door along the jamb.
- Continuous Geared Aluminum Hinges creates a high degree of security for any opening or restricted area. The geared construction and the full length channel cap seal the common gap between the door and frame provides security against prying.
- Also, closing the common gap between the door and frame provides safety against pinched fingers for doors in public areas, particularly those areas where children are present.
- The sightproof design of the Continuous Geared Aluminum Hinge provides privacy in lavatories, executives offices, exam rooms, and file rooms.
- Bommer Continuous Geared Aluminum Hinge products are GUARANTEED FOR THE LIFE OF THE OPENING against defects in material or workmanship.

#### **Cycle Tested**

Bommer's full line of Continuous Geared Aluminum
Hinges has completed testing using a standard duty hinge
and a 150 lb. door, and are now certified fully functional
after 1.5 million cycles. Some other manufacturers have
tested using a "heavy duty" hinge and a 75 lb. door for
certification of only 350,000 cycles.



#### **UL-Fire Labeled 3 Hour A-Label**

- Bommer's full line of Continuous Geared Aluminum
  Hinges are certified by Underwriters Laboratories Inc.<sup>®</sup>
  (U.S.A. and Canada) for up to a 3 Hour Fire Listing for all 4'-0" x 10'-0" and 8'-0" x 10'-0" door and frame assemblies.
- Special FirePins<sup>™</sup> may be required for some rated assemblies. Please refer to page 60,61 for illustrations and information regarding the application of FirePins.

## Bommer over 125 years of quality

## **Continuous Geared Aluminum Hinge**

#### **Full-Mortise Hinge**

 The full-mortise hinge is designed mainly for new door application, and is applied so as to conceal both leaves.

#### **Weight Bearing**

 Heaver weight can be carried, please contact Bommer's sales department for applications other than listed in the chart.

	Hinge	Number of	Heavy Door
	Size	Bearings	Weight
Standard	83" & 85"	14	280 lbs.
Duty ( none )	95"	16	320 lbs.
Hinges	120"	20	400 lbs.
Heavy	83" & 85"	27	540 lbs.
Duty ( HD )	95"	31	620 lbs.
Hinges	120"	39	780 lbs.

#### The Full-Mortise Applications

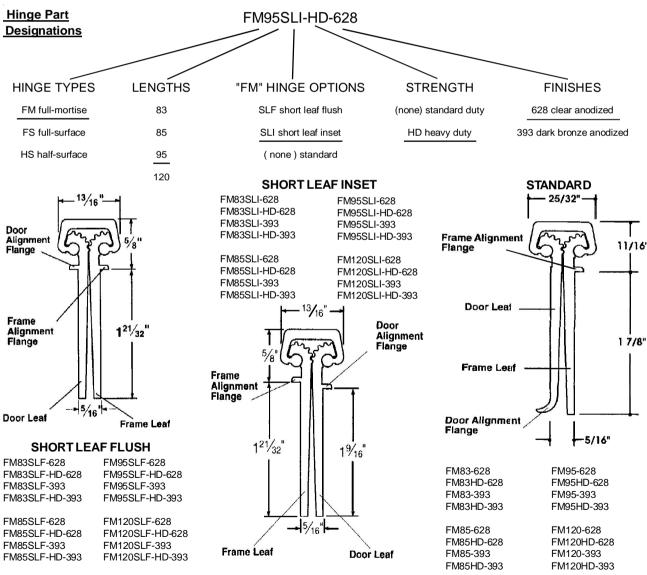
New Construction: New door and frame Renovations: (all full-mortise hinges will cover existing standard hinge preps)

- New door and frame
- New door with existing frame
- · Existing door with new frame

#### The Full Mortise Fasteners

All fasteners are  $\#12-24 \times 7/16$  Type C, FHUC screws (phillips, flat head, undercut screw, 7/16" long, that forms its own 12-24 thread).

- standard duty hinges 16 required each leaf
- heavy duty hinges 20 required each leaf
- WOOD SCREWS on request only (specify on order)





#### **Full Surface Hinge**

 The full surface hinge is designed mainly for retrofitting, and is applied to the exposed surface of the door and frame.

#### **The Full Surface Applications**

New Construction: New door and frame Renovations / Retrofit:

- New door and frame
- · New door with existing frame
- Existing door with new frame
- Existing door with existing frame

#### The Full Surface Fasteners

Frame Portion

Door Portion

All fasteners are  $\#12-24 \times 7/16$  Type C, FHUC screws (phillips, flat head, undercut screw, 7/16" long, that forms its own 12-24 thread).

- standard duty hinges 10 required
- heavy duty hinges 12 required
   WOOD SCREWS on request only (specify on order)

Thru-Bolts are 1/4 - 20 thread x 1 5/8" long, with a low profile

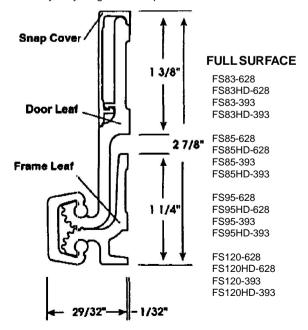
- standard duty hinges 6 required
- · heavy duty hinges 8 required

Shoulder Bolts, used in conjunction with the Thru-Bolts, are pancake head hex socket, 1/4 - 20 thread, 1" long. The hex socket allows for a certain degree of security.

- standard duty hinges 6 required
- heavy duty hinges 8 required

Pan Head Self Drilling Screws are # 12 x 3/4" long, and tap their own threads into the metal. The installation instructions fully describe their use for initially attaching the hinge to the door for clearance and alignment adjustments.

- standard duty hinges 4 required
- heavy duty hinges 4 required



#### Half-Surface Hinge

 The half surface hinge is designed mainly for retrofitting, the door leaf is applied to the exposed surface of the door, and the frame leaf is applied to the concealed surface of the frame rabbet.

#### The Half-Surface Applications

New Construction: New door and frame

Renovations / Retrofit: (all half surface hinges will cover existing standard hinge preps.)

- New door and frame
- · New door with existing frame
- Existing door with new frame
- · Existing door with existing frame

#### The Half-Surface Fasteners

Frame Portion

All fasteners are  $\#12-24 \times 7/16$  Type C, FHUC screws (phillips, flat head, undercut screw, 7/16" long, that forms its own 12-24 thread).

- standard duty hinges 16 required
- heavy duty hinges 20 required
- WOOD SCREWS on request only (specify on order)

#### Door Portion

Thru-Bolts are 1/4 - 20 thread x 1 5/8" long, with a very shallow head.

- standard duty hinges 6 required
- · heavy duty hinges 8 required

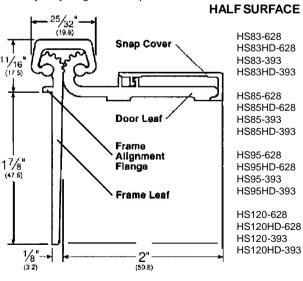
Shoulder Bolts, used in conjunction with the Thru-Bolts, are pancake head hex socket, 1/4 - 20 thread, 1" long.

The hex socket allows for a certain degree of security.

- standard duty hinges 6 required
- heavy duty hinges 8 required

Pan Head Self Drilling Screws are #12 x 3/4" long, and tap their own threads into the metal. The installation instructions fully describe their use for initially attaching the hinge to the door for clearance and alignment adjustments.

- standard duty hinges 4 required
- heavy duty hinges 4 required

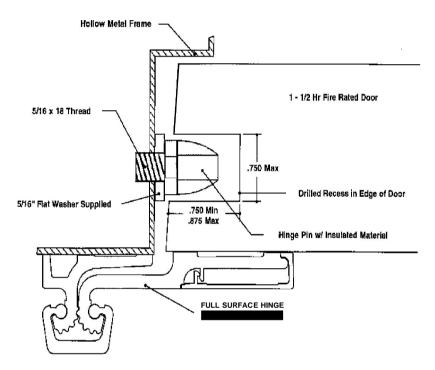


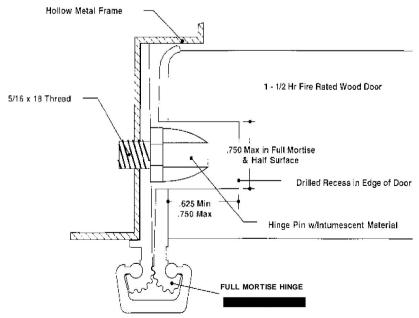
# Bommer over 125 years of quality

## **Continuous Geared Aluminum Hinge**

## FirePins ™ for use with Fire Rated Assemblies

- Although Bommer Continuous Geared Aluminun Hinges carry the UL Fire Rating, the highest in the industry, some applications may require the use of FirePins.™
- FirePin™ applications fall with in the UL guidelines for retrofitting assemblies in the field.
   Expensive shop modifications and door/frame reinforcements are not required.
- Intumescent material is encased in each FirePin<sup>™</sup> for wood door applications to insulate against charring the door edge via heat transfer from the frame.
   FirePins<sup>™</sup> also add extra security to a door assembly.

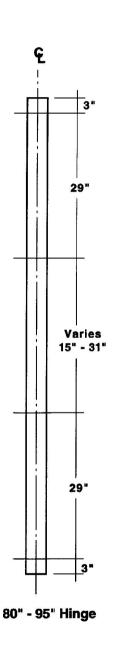


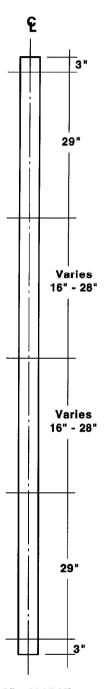




### **FirePins ™ Locations**

- The locations illustrated below indicate where holes should be drilled on the hinge edge of the door.
- These locations are appropriate for all hinge models (full-mortise, full-surface, and half-surface).







## Continuous Geared Aluminum Hinge Product Cross Reference Chart

## Fuir Mortise Hinges

BOMMER	Roton	Select	Markar	Stanley	Zero
FM83-628	780-224, 83" CL	SL24A-83	FM-611A, 83"	521	
FM83-393	780-224, 83" BRZ	SL24D-83	FM-611D, 83"	527	
FM83HD-628	780-224HD, 83"CL	SL24A-HD-83	FM-611A, HD-83"	521	
FM83HD-393	780-224HD, 83"BRZ	SL24D-HD-83	FM-611D, HD-83"	527	
FM85-628	780-224, 85" CL	SL24A-85	FM-611A, 85"		
FM85-393	780-224, 85" BRZ	SL24D-85	FM-611D, 85"		
FM85HD-628	780-224HD, 85" CL	SL24A-HD-85	FM-611A, HD-85"		
FM85HD-393	780-224HD,85" BRZ	SL24D-HD-85	FM-611D, HD-85"		
FM95-628	780-224, 95" CL	SL24A-95	FM-611A, 95"	523	
FM95-393	780-224, 95' BRZ	SL24D-95	FM-611D, 95"	528	
FM95HD-628	780-224HD, 95'CL	SL24A-HD-95	FM-611A, HD-95"	523	
FM95HD-393	780-224HD, 95"BRZ	SL24D-HD-95	FM-611D, HD-95"	528	
FM120-628	780-224, 120" CL	SL24A-120	FM-611A, 120"	525	
FM120-393	780-224, 120" BRZ	SL24D-120	FM-611D, 120"	529	
FM120HD-628	780-224HD, 120"CL	SL24A-HD-120	FM-611A, HD-120"	525	
FM120HD-393	780-224HD, 120"BRZ	SL24D-HD-120	FM-611D, HD-120"	529	

## Full Mortise Hinges Short Leaf Flush

BOMMER	Roton	Select	Markar	Stanley	Zero
FM83-SLF-628	780-112, 83" CL	SL11A-83	FM-600A, 83"	501	910A-83
FM83-SLF-393	780-112, 83" BRZ	SL11D-83	FM-600D, 83"	507	910D-83
FM83HD-SLF-628	780-112HD, 83"CL	SL11A-HD-83	FM-600A, HD-83"	501	910A-DB-83
FM83HD-SLF-393	780-112HD, 83"BRZ	SL11D-HD-83	FM-600D, HD-83"	507	910D-DB-83
FM85-SLF-628	780-112, 85" CL	SL11A-85	FM-600A, 85"		910A-85
FM85-SLF-393	780-112, 85" BRZ	SL11D-85	FM-600D, 85"		910D-85
FM85HD-SLF-628	780-112HD, 85" CL	SL11A-HD-85	FM-600A, HD-85"		910A-DB-85
FM85HD-SLF-393	780-112HD,85" BRZ	SL11D-HD-85	FM-600D, HD-85"		910D-DB-85
FM95-SLF-628	780-112, 95" CL	SL11A-95	FM-600A, 95"	503	910A-95
FM95-SLF-393	780-112, 95''' BRZ	SL11D-95	FM-600D, 95"	508	910D-95
FM95HD-SLF-628	780-112HD, 95"CL	SL11A-HD-95	FM-600A, HD-95"	503	910A-DB-95
FM95HD-SLF-393	780-112HD, 95"BRZ	SL11D-HD-95	FM-600D, HD-95"	508	910D-DB-95
FM120-SLF-628	780-112, 120" CL	SL11A-120	FM-600A, 120"	505	910A-120
FM120-SLF-393	780-112, 120" BRZ	SL11D-120	FM-600D, 120"	509	910D-120
FM120HD-SLF-628	780-112HD, 120"CL	SL11A-HD-120	FM-600A, HD-120"	505	910A-DB-120
FM120HD-SLF-393	780-112HD, 120"BRZ	SL11D-HD-120	FM-600D, HD-120"	509	910D-DB-120



## **Product Cross Reference Chart**

## Full Surface Hinges

BOMMER	Roton	Select	Markar	Stanley	Zero
FS83-628	780-210, 83" CL	SL21A-83	FS/SC-609A, 83"	511	930A-83
FS83-393	780-210, 83" BRZ	SL21D-83	FS/SC-609D, 83"	517	930D-83
FS83HD-628	780-210HD, 83" CL	SL21A-HD-83	FS/SC-609A, HD-83"	511	930A-DB-83
FS83HD-393	780-210HD, 83" BRZ	SL21D-HD-83	FS/SC-609D, HD-83"	517	930D-DB-83
FS85-628	780-210, 85" CL	SL21A-85	FS/SC-609A, 85"		930A-85
FS85-393	780-210, 85" BRZ	SL21D-85	FS/SC-609D, 85"		930D-85
FS85HD-628	780-210HD, 85" CL	SL21A-HD-85	FS/SC-609A, HD-85"		930A-DB-85
FS85HD-393	780-210HD,85" BRZ	SL21D-HD-85	FS/SC-609D, HD-85"		930D-DB-85
FS95-628	780-210, 95" CL	SL21A-95	FS/SC-609A, 95"	513	930A-95
FS95-393	780-210, 9'" BRZ	SL21D-95	FS/SC-609D, 95"	518	930D-95
FS95HD-628	780-210HD, 95" CL	SL21A-HD-95	FS/SC-609A, HD-95"	513	930A-DB-95
FS95HD-393	780-210HD, 95" BRZ	SL21D-HD-95	FS/SC-609D, HD-95"	518	930D-DB-95
FS120-628	780-210, 120" CL	SL21A-120	FS/SC-609A, 120"	515	930A-120
FS120-393	780-210, 120" BRZ	SL21D-120	FS/SC-609D, 120"	519	930D-120
FS120HD-628	780-210HD, 120" CL	SL21A-HD-120	FS/SC-609A, HD-120"	515	930A-DB-120
FS120HD-393	780-210HD, 120" BRZ	SL21D-HD-120	FS/SC-609D, HD-120"	519	930D-DB-120

## **Half Surface Hinges**

BOMMER	Roton	Select	Markar	Stanley	Zero
HS83-628	780-054, 83" CL	SL54A-83	HS-603A, 83"	551	920A-83
HS83-393	780-054, 83" BRZ	SL54D-83	HS-603D, 83"	557	920D-83
HS83HD-628	780-054HD, 83" CL	SL54A-HD-83	HS-603A, HD-83"	551	920A-DB-83
HS83HD-393	780-054HD, 83" BRZ	SL54D-HD-83	HS-603D, HD-83"	557	920D-DB-83
HS85-628	780-054, 85" CL	SL54A-85	HS-603A, 85"		920A-85
HS85-393	780-054, 85" BRZ	SL54D-85	HS-603D, 85"		920D-85
HS85HD-628	780-054HD, 85" CL	SL54A-HD-85	HS-603A, HD-85"		920A-DB-85
HS85HD-393	780-054HD,85" BRZ	SL54D-HD-85	HS-603D, HD-85"		920D-DB-85
HS95-628	780-054, 95" CL	SL54A-95	HS-603A, 95"	553	920A-95
HS95-393	780-054, 9'" BRZ	SL54D-95	HS-603D, 95"	558	920D-95
HS95HD-628	780-054HD, 95" CL	SL54A-HD-95	HS-603A, HD-95"	553	920A-DB-95
HS95HD-393	780-054HD, 95" BRZ	SL54D-HD-95	HS-603D, HD-95"	558	920D-DB-95
HS120-628	780-054, 120" CL	SL54A-120	HS-603A, 120"	555	920A-120
HS120-393	780-054, 120" BRZ	SL54D-120	HS-603D, 120"	559	920D-120
HS120HD-628	780-054HD, 120 "CL	SL54A-HD-120	HS-603A, HD-120"	555	920A-DB-120
HS120HD-393	780-054HD, 120" BRZ	SL54D-HD-120	HS-603D, HD-120"	559	920D-DB-120

