



Detention Hardware by BEST

Heavy Weight Concealed Bearing Prison Hinges

IHTCB1995R – (ANSI A8111) – 3 knuckle – full mortise – steel – phosphated and painted IHTCB1995R – (ANSI A5111) – 3 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- · Investment cast 304 stainless steel
- Available with or without shear resistant stud (SRS)
- Limited lifetime warranty
- · Concealed bearing for trouble free, long life no oil, no grease, no maintenance
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- · Stainless steel, hardened, free turning, completely concealed pin
- · Hinges can be furnished as follows:
- with concealed switch (CS)
- with shear resistant studs (SRS)





0	0
0	0
0	0
0	0

Size Open		Gauge of Metal		Number of Flat	Head Security	Ouantity	Ouantity	Case Weight		
Inches	(mm)	Inches	(mm)	Machine Screw		Per Box	Per Carton	Lbs.	(Kg)	
4-1/2" x 4-1/2"	[114 x 114]	.188	[4.8]	8 - 1/4-20 x 1/2	8-9 x 1	3 ea.	30 ea.	46	(20.9)	

Suggested Specifications

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

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

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

Heavy Weight Concealed Bearing Prison Hinges

IHTCB1901R – (ANSI A8111) – 3 knuckle – full mortise – steel – phosphated and painted IHTCB1961R – (ANSI A5111) – 3 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- · Limited lifetime warranty
- · Concealed bearing for trouble free, long life no oil, no grease, no maintenance
- · Sloped ends deter hangings
- · Stainless steel, hardened, free turning, completely concealed pin
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- · Hinges can be furnished as follows:
- with concealed switch (CS)
- with current conducting feature (CE)
- with shear resistant studs (SRS)
- with 1/4-20 punching



Shear Resistant Stud

	•
	•
•	0
•	•

Size Open		Gauge o	f Metal	Number of Flat	Head Security	Quantity	Ouantity	Case Weight		
Inches	(mm)	Inches	(mm)	Machine Screw		Per Box	Per Carton	Lbs.	(Kg)	
4-1/2" x 4-1/2"	[114 x 114]	.180	[4.6]	8 - 12-24 x 1/2	8 -12 x 1-1/4	3 ea.	36 ea.	54	[24.5]	
5" x 4-1/2"	(127 x 114)	.190	[4.8]	8 - 12-24 x 1/2	8 -12 x 1-1/4	3 ea.	24 ea.	42	(19)	

Suggested Specifications

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

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

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. [2712-J] of force delivered on the door within 6" (152m) of each hinge.

Heavy Weight Concealed Bearing Prison Hinges

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

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

- · Specially designed for detention facilities
- · Limited lifetime warranty
- · Concealed bearing for trouble free, long life no oil, no grease, no maintenance
- · Sloped ends deter hangings
- · Stainless steel, hardened, and completely concealed pin
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- · Steel based painted hinges and stainless steel hinges are fully welded
- Steel based plated hinges are cross pinned, top and bottom
- · Hinges can be furnished as follows:
- with concealed switch (CS)
- with current conducting feature (CE)
- with shear resistant studs (SRS)
- with 1/4-20 punching



Shear Resistant Stud

Size Open		Gauge o	f Metal	Number of Flat	Head Security	Ouantity	Ouantity	Case Weight	
Inches	(mm)	Inches	(mm)	Machine Screw		Per Box	Per Carton	Lbs.	(Kg)
4-1/2" x 4-1/2"	(114 x 114)	.180	[4.6]	8 - 12-24 x 1/2	8 -12 x 1-1/4	3 ea.	36 ea.	54	[24.5]
5" x 4-1/2"	(127 x 114)	.190	[4.8]	8 - 12-24 x 1/2	8 -12 x 1-1/4	3 ea.	24 ea.	42	(19)

Suggested Specifications

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

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

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. [2712-J] of force delivered on the door within 6" (152m) of each hinge.

Heavy Weight Concealed Bearing Prison Hinges

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

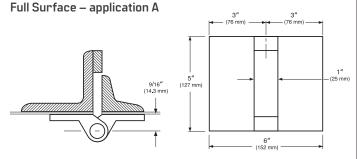
- For lead-lined doors to x-ray rooms and other exceptionally heavy doors
- Made of double weight steel capable of carrying doors weighing up to 800 lbs. (363 Kg) [Based on a 3' x 7' door with 3 hinges]
- Each of the 2 concealed hardened steel races contains sixteen 1/8" (3.2 mm) hardened and ground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



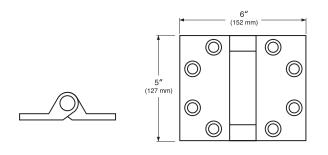
Provision has been made in the barrel of hinge for forced lubrication if further lubrication is necessary

Typical applications of BB855

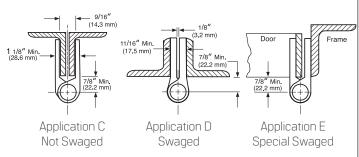
Regularly furnished blank no holes, not swaged for



Full Surface with holes to template - application B

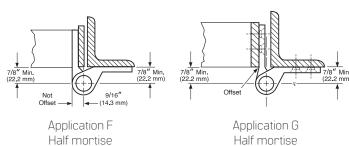


Full Mortise – applications



For all full mortise applications the center of barrel should be set 7/8" (22.2 mm) from door and frame so welded joints will clear. Leaves can be swaged apart any distance between 1/16" (1.6 mm) to 9/16" (14.3 mm)

Half Mortise



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

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

**Application H available as made to order

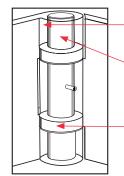
No holes not	Catalog Number	Catalog USP/EDP		Length of Joint Length of Joint		Gauge of Metal		Diameter of Pin		Ouantity	Case Weight		
swaged for		Number	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Per Carton	Lbs.	(Kg)
applications - "A" or "C"	BB855	02 9468	5	[127]	6	(152)	281	[7.1]	1/2	[12.7]	2 Ea.	7	[3.2]

Triple Weight Concealed Ball Bearing Prison Hinges

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

- · For lead-lined doors to x-ray rooms and extremely heavy doors and gates
- For hinged cell-front doors and grated steel doors of penitentiaries, jails, reformatories, etc.
- Made of triple weight steel capable of carrying doors weighing up to 1200 lbs. (544 Kg)
 (Based on a 3' x 7' door with 3 hinges)
- Each of the 2 concealed hardened steel races contains sixteen 3/16" (4.8 mm) hardened and ground steel balls which are assembled within a jacket
- Provision has been made in the barrel of the hinge for forced lubrication if further lubrication is necessary
- Typically made not swaged, no holes (application A) for full surface applications, or for full mortise (applications C) application.
 All other configurations are made to order





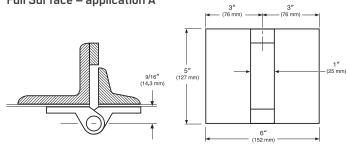
Rolled knuckles are welded and machined.

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

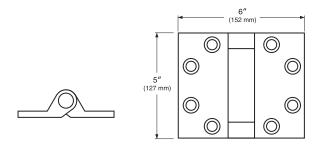
Two concealed bearing assemblies. Hardened raceways. Hardened and ground balls.

Typical applications of BB852

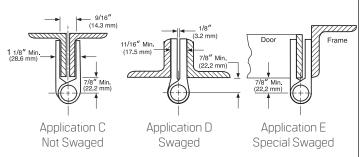
Regularly furnished blank no holes, not swaged for Full Surface – application A



Full Surface with holes to template - application B

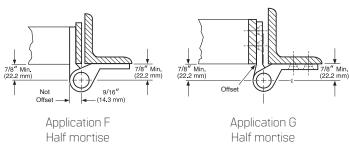


Full Mortise – applications



For all full mortise applications the center of barrel should be set 7/8" (22.2 mm) from door and frame so welded joints will clear. Leaves can be swaged apart any distance between 1/16" (1.6 mm) to 9/16" (14.3 mm)

Half Mortise



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

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

No holes, not Catalog		USP/EDP	Length	of Joint	Length	of Joint	Gauge	of Metal	Diamete	r of Pin	Ouantity	Case W	/eight
swaged for applications	Number	Number	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Per Carton	Lbs.	(Kg)
"A" or "C"	BB852	02 9388	5	[127]	6	(152)	375	(9.5)	3/4	(19.1)	2 Ea.	10	(4.5)

Notes:		



CORPORATE HEADQUARTERS

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For questions about ordering and to be sure you get the right configuration for your needs, contact your BEST dormakaba sales representative. 6161 East 75th Street, Indianapolis, IN 46250 USA | 855-365-2407 | bestaccess.com