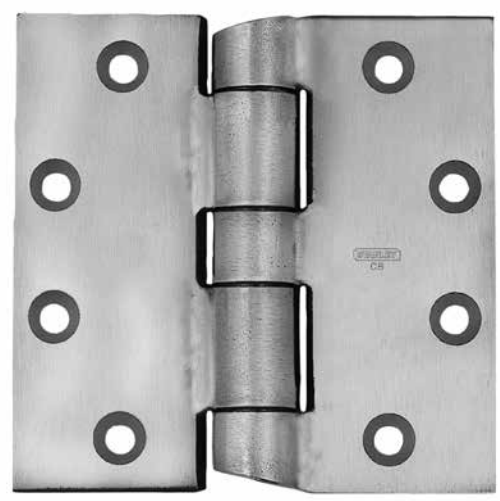
Detention Hardware

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

Suggested Specifications

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

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

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