

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

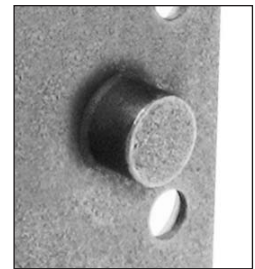
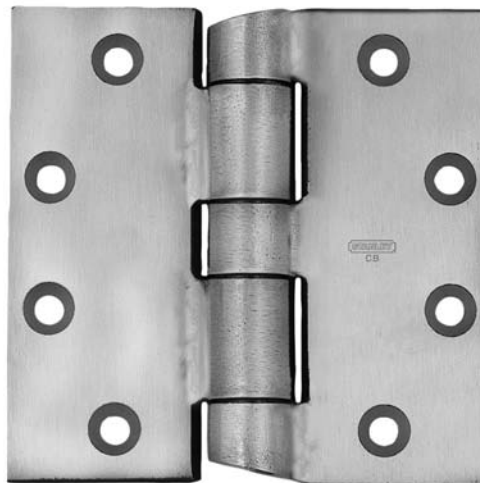
IHTCB168 – (ANSI A8111) – 5 knuckle – full mortise – steel – phosphated and painted, or polished and plated

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

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

Hinges can be furnished as follows:

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



Shear Resistant Stud

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

Suggested Specifications

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

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

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