



## **IS 205: 1992 - Specification for Non-Ferrous Metal Butt Hinges ( Fourth Revision )**

**Butt hinges** are essential building hardware to attach doors/ leaves to frames or jambs. The hinges can be made of non-ferrous or ferrous metals. This Indian Standard is the specification for **Non-Ferrous Metal Butt Hinges** made of four type of materials, namely, **Extruded aluminium alloy, Extruded brass, Cast brass and Sheet brass**. Non-ferrous butt hinges have superior aesthetic and resistance to corrosion than mild-steel butt hinges.

Based on the material and flap geometry, the hinges have been classified into 4 types:

- 1.Extruded aluminium alloy butt hinges- with flat flaps or tapered flaps
- 2.Extruded brass butt hinges – with flat flaps or tapered flaps
- 3.Cast brass butt hinges – with flat flaps or tapered flaps
- 4.Sheet brass butt hinges- with cranked flaps or uncranked flaps used for cabinets

**Materials for flaps and hinge pin** are required to conform to the stated designation in the relevant Indian Standard for materials. Brass hinges shall have satin finish and suitably protected against discolouration and aluminium alloy hinges shall be anodized.

**Number of knuckles and holes, size for holes to screw with countersunk wood screws, dimensions of flaps** (length, width and thickness) and **size of hinge pin** have been specified. Tolerances to the dimensions have been stated as hinges are the component join the door to frame to ensure smooth operation and coordinated fitting.

**Alpha numerical designations** have been stated (size of flaps, shutter thickness suitable to use with, heavy /light) to facilitate ease of selection of hinges.

IS 205 was first published in 1950 and the present version is fourth revision, revised in 1992.