

Stainless Steel Butt Hinges IS 12817: 2020

Door and butt hinges are used to attach doors to structures or surfaces and allow them to open and close. Two types of doors are Flush type and

Hinge type. The advantages of butt hinge doors are

- a) the door can heavy and thick
- b) better clearance with uneven floors
- c) automatic closing
- d) aesthetic appeal
- e) durable

The standard covers different types, requirements of materials, dimensions, manufacturing and finish of stainless steel butt hinges.

Door hinges are made from different materials like mild steel, brass, aluminium and stainless steel. Mild steel hinges begin to rust in locations where atmospheric moistures are high. In these location stainless hinges are corrosion resistant and hence preferred.

There are six types of stainless Steel Butt Hinges a) Light weight (narrow hinges) b) Light weight unequal flap hinges, c) Medium weight hinges, d) Medium weight (narrow hinges) e) heavy weight unequal flat hinges, f) heavy weight hinges

The standard specifies the dimensions and tolerances of the above types of stainless steel hinges. The requirements are length, breadth, thickness of flap, diameter of hinge pin, number of knuckles, number of screw holes and holes for screw number.

Materials Requirement

- Stainless steel for flap shall confirm to IS 6911
- Stainless steel for pin shall confirm to IS 6528

Stainless steel butt hinges work by providing a pivot point for moving part of door. They are attached to one part of the door and allows the other part to move back and forth without separating. Stainless steel butt hinges have a pin that fits into a hole on the other part of the door. The pin allows the two parts to move relative to each other while remaining attached.

Hinges shall be packed in cardboard boxes or any another approved packing with label showing the types of hinges , size of hinges, quantity of hinges and source of manufacture.