



## Bureau of Indian Standards

### IS 281: 2009 - Specification for Mild Steel Sliding Door Bolts for Use with Padlocks

**Sliding door bolts** are essential locking mechanisms widely used in building construction to **secure doors, gates**, and similar structures with **padlocks**. Their robust construction and ease of use make them popular in residential, commercial, and industrial applications where **durability and security** are required.

When purchasing these bolts, key concerns include **size, material strength, ease of operation, and durability**. You want the bolt to be **sturdy, corrosion-resistant**, and capable of **smooth sliding** to ensure it functions reliably over time. Additionally, the **finish** matters, as you want the bolt to resist **rust** and look good.

This Indian Standard **IS 281: 2009** specifies the requirements for such mild steel sliding door bolts. The standard covers **two main types: plate type and clip/bolt type**, with size options ranging from 150 mm to 450 mm. The sliding door bolts are required to be made from **robust materials** like mild steel sheets and rods, conforming to specific grades per IS 1079, IS 513, and IS 2062, and should pass prescribed **bend and tensile tests** to ensure durability and performance under stress.

**Dimensional specifications** are provided to ensure standardized **length, thickness, and fit** for both types. Design features such as **smooth sliding action, countersunk screw holes, and rounded edges** are mandated to avoid **sharp or harmful defects**. **Surface finishes**, including stove enamel, copper oxidizing, nickel, or chromium plating, are recommended for **corrosion resistance**, as per IS 1378 and IS 1068. **Safety mechanisms**, such as **securely riveted parts**, keep the locking mechanism safe from tampering.

**Manufacturing processes** ensure that parts like hasps and staples are firmly riveted or constructed to prevent slippage. Each bolt must be marked with the manufacturer's name or trademark.