

## **IS 550 (Part 1): 2022 - SAFES**

Security equipment plays a vital role in secured storage of valuables and important documents. They are used in a wide variety of establishments like banks, commercial organizations, hotels, shops, etc. One of the most common and important security equipment is safe, popularly used to store cash, valuables and important documents.

Safes should be strong, flameproof and durable. By using proper locking mechanisms, they should prevent burglary attempts to open the safe. IS 550 (Part 1): 2022 specifies the dimensions, general requirements and performance criteria for safes. Standard classifies Safes into ten different designations.

Dimensions (Height, Width, Depth, Internal volume, Thickness of outer body plate and inner body plates, as well as door outer plate and door Inner plate, Thickness of door slab, Thickness of door over bolt work, Depth of engagements), Minimum weight, Number of bolts, Number of key locks on the door and tolerances for each designation of safes are specified in the standard.

Standard mentions Materials for Outer body, inner body, back, door, hinge, bolt work, internal fixtures, etc. Drill resistant armour plate Handles and other fittings for general guidance. Standard mentions construction and workmanship requirements for Body, Anchoring Arrangement, Doors and Door fittings such as Hinges, Bolts, Handles and Locks.

Standard specified painting requirements for inside and outside surfaces of the safe. Cross hatch test procedure is detailed for testing adhesion of coating. Standard specifies Burglary resistance, Fire Endurance, Fire & Impact tests and mentions criteria for conformity. For test procedures, standard refers to other parts of IS 550.

Standard also mentions details of technical documentation to be provided by the manufacturer while offering samples for testing. The documentation on basis of which type approval is obtained, shall be authenticated by the certifying authority and the testing agency.