

IS 4992 : 2024 - Door Handles for Mortice Locks — Specification

This standard covers requirements of door handles that is lever door handle and door knobs for mortice locks used in doors, for operation of mortice locks (vertical type, sliding door locks and dead locks) covered in IS 16015 'Mortice locks and latches (mechanically operated) — Specification (first revision).

This standard includes the provision for use of extruded aluminium alloy section for the component door handle housing. The revision of this standard include various types of key hole profiles, typical designs of handle cover plates and rosesets and Coding system have been introduced.

Design of Lever Door Handle, Door knob, Handle cover plate and Roseset are covered under this standard. For the purpose of this standard, the door handles have been classified in accordance with the six-digit coding system namely Digit 1 for Category of Use, Digit 2 for Durability, Digit 3 for Test Door Mass, Digit 4 for Fire Resistance, Digit 5 for Corrosion Resistance and finally Digit 6 for Types of Operation.

These classifications have been subdivided into grades for based on their category of use, durability, fire resistance, corrosion resistance and types of operation. No classification has been proposed for Test Door Mass.

Performance test like axial strength test, durability test, salt spray test and fire resistance test have been introduced in the standard.

The spindle and fastening elements shall be supplied or specified by the manufacturer with every set of handle. The manufacturer shall state clearly the door thickness or range of door thicknesses for which the handle is suitable. The fastening elements supplied along with the product or specified by the manufacturer shall be used to mount the handle on the testing fixtures during all the tests.

When the lock or latch handle is fitted to the test block there shall be no sharp edges that can cause injury. The design of handle or knob after fitting shall ensure that, it is not possible for the fingers of the user to be trapped between lever handle or knob and cover plate or rose over the full range of rotation of the lever handle or knob.

This standard also stipulates the manufacturer to supply suitable fastener which are suitable for wooden/aluminium/metal doors along with the handles.