



उत्पाद मैनुअल

मोर्टिस लॉक के लिए दरवाजे के हैंडल्स,

आईएस ४९९२ : २०२४ के अनुसार

**PRODUCT MANUAL
DOOR HANDLES FOR MORTICE LOCKS,
ACCORDING TO IS 4992: 2024**

यह उत्पाद नियमावली सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसधारियों द्वारा विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना-I के अंतर्गत प्रमाणन के संचालन में एकरूपता और पारदर्शिता सुनिश्चित करने के लिए संदर्भ सामग्री के रूप में उपयोग की जाएगी। बीआईएस प्रमाणन प्राप्त करने के इच्छुक भावी आवेदक भी इस दस्तावेज़ का उपयोग कर सकते हैं।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification.

1.	मानक संख्या / IS No.	:	IS 4992 : 2024
	शीर्षक / Title	:	Door Handles for Mortice Locks
	संशोधनों की संख्या No. of amendments	:	1
2.	नमूनाकरण दिशानिर्देश / Sampling Guidelines		
a)	कच्चा माल Raw material	:	Nil <i>Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/Factory Surveillance.</i>
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer ANNEX – A
c)	नमूने का परिमाण Sample Quantity	:	8 door handles + spindles + fastening elements <i>Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (incase of market surveillance, effort may be made to procure therequired quantity of product sample, as far as possible since raw material sample may not be available in market)</i>
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test	:	Same as the scope of licence.

	Request		<i>Note: Apart from the above, any other requirements/ parameters may also be declared as per the standard, as applicable.</i>
3.	परीक्षण उपकरण की सूची List of Test Equipment	:	Please refer ANNEX – B
4.	निरीक्षण एवं परीक्षण योजना Scheme of Inspection and Testing	:	Please refer ANNEX – C
5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	i. Axial strength(CI 6.2), ii. Safety requirements (CI 6.3) <i>Note: This section is for the guidance of BIS Certification Officers/ Technical Auditors of BIS Authorized Outside Surveillance Agencies (OSAs) during factory inspection to provide ready reference regarding the tests which can be witnessed during the inspection in the factory by the officer/ auditor.</i>
6.	लाइसेंस का दायरा /Scope of the Licence:		
“License is granted to use Standard Mark as per IS 4992 : 2024 with the following scope:			
Name of the product		Door Handles for Mortice Locks	
Type of door handle		Lever door handle / door knob	
Category of Use		Grade 1, Grade 2, Grade 3, Grade 4	
Durability		Grade 4, Grade 5, Grade 6, Grade 7	
Test Door Mass		-	
Fire Resistance		Grade 0, Grade 1, Grade 2, Grade 3, Grade 4, Grade 5	
Corrosion Resistance		Grade 0, Grade 1, Grade 2, Grade 3, Grade 4, Grade 5	
Types of Operation		Grade A, Grade B, Grade U	

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ANNEX -A
Grouping Guidelines

1. Door Handles for Mortice Locks as per IS 4992 : 2024 is categorized as below:

Type of door handle	- Lever door handle - Door knob					
Six-digit Classification Code	Digit 1 (Category of Use)	Digit 2 (Durability)	Digit 3 (Test Door Mass)	Digit 4 (Fire Resistance)	Digit 5 (Corrosion Resistance)	Digit 6 (Types of operation)
	Grade 1,2,3,4	Grade 4,5,6,7	-	Grade 0,1,2,3,4,5	Grade 0,1,2,3,4,5	Grade A,B,U

2. Considering the above, the following grouping guidelines for GoL/ CSoL shall be followed:

- a) Door Handles for Mortice Locks of each Type shall be tested to cover that particular Type in the scope of licence.
- b) Each Type of door handles are further classified according to six-digit classification code. Following are the guidelines for coverage of the Grades of each Digits within the Six-Digit Classification Code under each Type of door handles :
 - Digit 1 (Category of Use): The highest grade shall be tested to cover all lower grades, including the tested grades.
 - Digit 2 (Durability) : The highest grade shall be tested to cover all lower grades, including the tested grades.
 - Digit 3 (Test Door Mass) : No Classification (-)
 - Digit 4 (Fire Resistance) : The highest grade shall be tested to cover all lower grades, including the tested grades.
 - Digit 5 (Corrosion Resistance) : The highest grade shall be tested to cover all lower grades, including the tested grades.
 - Digit 6 (Types of operation): Each grade of Digit 6 (Types of Operation) shall be tested to cover that particular grade for all such grades of Digit 1 to Digit 5 covered under the respective tested Six-Digit Classification Code.

For Example- If Six-Digit Classification code [3 6 - 2 4 A] & [2 5 - 5 3 U] is tested, then following verities will be covered under the scope of the license.

a) Digit 1- Grade 1 to 3, Digit 2- Grade 4 to 6, Digit 3- -, Digit 4- Grade 0 to 2, Digit 5- Grade 0 to 4, Digit 6- A &

b) Digit 1- Grade 1 to 2, Digit 2- Grade 4 to 5, Digit 3- -, Digit 4- Grade 0 to 5,
Digit 5- Grade 0 to 3, Digit 6- U

2. The firm shall declare the varieties of Door Handles for Mortice Locks they intend to cover in the Licence. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.
3. Firm shall submit the design of each door handle with following details:
 - Drawing
 - Major parameters as per Clause 4.1 of IS 4992
 - key hole profiles
 - Shapes of handle cover plates and rosette handles
 - Maximum angle of rotation
4. During the operation of the Licence, BO shall ensure that all the types and sizes covered in the Licence are tested in rotation, to the extent possible.

ANNEX- B**List of Test Equipments***(Indicative List, For Guidance Only)*

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	Axial Strength (Cl 6.2)	a) Axial strength test apparatus as per fig 9 of IS 4992 b) Angle protractor c) Vernier caliper d) Stop watch
2.	Durability of Mechanism (Cl 6.4)	a) Durability test apparatus as per fig 12 of IS 4992 b) Arrangement to count cycles of force application c) Vernier caliper
3.	Corrosion Resistance - Salt Spray Test (Cl 6.5)	a) Spray Cabinet, b) Means of supplying and controlling heat, c) Means for spraying the salt solution, d) weighing balance, e) PH meter, f) Sodium chloride
4.	Fire Resistance Test (Cl 6.6)	a) Test facilities as per IS/ ISO 3008 (Part 1)

The above list is indicative only and may not be treated as exhaustive.

ANNEX C

Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or sub-contracting/ sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 Recommended Levels of Control/ Control Unit:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: *All door handles for mortice lock of same Type of door handle, Six-digit Classification Code and Design Code manufactured from same materials under similar conditions in a day shall constitute a control unit.*

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in Table 1. Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING

The manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

- i) Shared testing resources like common facility,
- ii) Cluster based testing facility,
- iii) Sub-contracting to outside laboratories which may either be:
 - a) BIS recognised/ empanelled laboratories, or
 - b) Any accredited laboratory as per ISO/IEC 17025

2.1 Test Records- The manufacturers shall maintain test records for the tests carried out (either in-house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKING AND MARKING

The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each Door handles for mortice lock provided always that the material so marked conforms to all requirements of the specification.

3.1 Marking on each Door handles shall be done as per Cl. 8 of IS 4992: 2024

3.2 **Additional Marking requirements:** Each Door handles shall also be marked with the following additional requirement on each packing:

a) “For BIS certification details please visit www.bis.gov.in”

4. REJECTION

The production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE-1*(Recommended Levels of Control by BIS- for Guidance Only)*

(1)				(3)		
Test Details				Levels of Control		
Cl.	Requirement	Test Methods		No. of Sample	Frequency	Remarks
		Clause	Reference			
6.2	Axial Strength	6.2	IS 4992	One	Each control unit	
6.3	Safety Requirements	6.3	IS 4992	Firm to have adequate in-process controls to check compliance of this parameter. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
6.4	Durability of Mechanism	6.4	IS 4992	One	Once in three months	All varieties produced during the period shall be tested for this requirement
6.5	Corrosion Resistance	6.5	IS 4992	One	Once in three months	All varieties produced during the period shall be tested for this requirement
6.6	Fire Resistance Test	6.6	IS 4992	One	Every five years	Varieties shall be tested in rotation for this requirement