



**PRODUCT MANUAL FOR  
VAULT (STRONG ROOM) DOORS  
ACCORDING TO IS 11188 (PART 1): 2014**

*This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence 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 licence/certificate.*

|    |   |                           |   |
|----|---|---------------------------|---|
| 1. | <b>Product</b>  | :                         | IS 11188 (Part 1): 2014                             |
|    | <b>Title</b>  | :                         | Vault (Strong Room) Doors                           |
|    | <b>No. of Amendments</b>  | :                         | 2   |
| 2. | <b>Sampling Guidelines:</b>   |                           |   |
| a) | <b>Raw material</b>   | :                         | --  |
| b) | <b>Grouping guidelines</b>  | :                         | Please refer ANNEX – <a href="#">A</a>              |
| c) | <b>Sample Size</b>  | :                         | 3 Nos for Class B & C<br>1 No for Class A, AA & AAA |
| 3. | <b>List of Test Equipment</b>   | :                         | Please refer ANNEX – <a href="#">B</a>              |
| 4. | <b>Scheme of Inspection and Testing</b>   | :                         | Please refer ANNEX – <a href="#">C</a>              |
| 5. | <b>Possible tests in a day :</b>  |                           |   |
|    | (i) Dimensions as per clause 5 and Table 1  |                           |   |
|    | (ii) Construction and general requirements as per clause 8.1 to 8.3                               |                           |   |
|    | (iii) Door fittings as per clause 9.1 to 9.4  |                           |   |
|    | (iv) Finish and cross hatch as per clause 10.1 to 10.3  |                           |   |
| 6. | <b>Scope of the Licence :</b>   |                           |   |
|    | “Licence is granted to use Standard Mark as per IS 11188 (Part 1): 2014 with the following scope: |                           |   |
|    | Name of the product   | Vault (Strong Room) Doors |   |
|    | Class   | C, B, A, AA, AAA          |   |
|    | Type  | Main door, Emergency door |   |

**Annex A**

**Grouping Guidelines**

1. Vaults (Strong Room) Doors as per IS 11188 (Part 1): 2014 are classified into various Classes as given below:

|                  |
|------------------|
| <b>Class</b>     |
| C, B, A, AA, AAA |

2. As regards the 'Type' of Vault doors i.e Main doors and Emergency doors, there is change in dimensions only and not in any performance requirements.

3. Considering the above, sample from each class shall be tested for all requirements for considering GOL/Inclusion.

4. However, if Vault main doors are tested, corresponding Vault emergency doors may also be covered.

5. The manufacturer shall declare the various Classes of Vaults (Strong Room Doors) and the Type they intend to cover in the License.

6. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the manufacturer.

7. During the operation of Licence, it shall be ensured that all the varieties covered in the Licence are tested in rotation, to the extent possible.

**ANNEX B****List of Test Equipment***Major test equipment required to test as per the Indian Standard*

| <b>Sl. No.</b> | <b>Tests used in with Clause Reference</b>  | <b>Test Equipment</b>   |
|----------------|---|---|
| 1              | Dimensions, Cl 5 and table 1;<br>Construction and general requirements, Cl 8.1 to 8.3 | Steel Scale<br>Measuring Tape<br>Vernier Calliper<br>Degree Protector<br>Feeler gauge<br>micrometer                 |
| 2              | Tests for locks, Cl. 8.4  | Arrangement for cycle test of locks,<br>automated machine fitted with calibrated counter,<br>Salt spray arrangement |
| 3              | Finish ,Cl. 10.2  | Coating thickness meter   |
| 4              | Cross hatch test, Cl. 10.3  | Sharp Metal Pointer, transparent<br>adhesive tape not less than 20 mm width   |

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

**ANNEX C**

**Scheme of Inspection And Testing**

**1. LABORATORY** - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

**1.1** The manufacturer shall prepare a calibration plan for the test equipments.

**2. TEST RECORDS** – The manufacturer shall maintain test records for the tests carried out to establish conformity.

**3. LABELLING AND MARKING** – As per the requirement of IS 11180(Part 1): 2014.

**4. CONTROL UNIT** – The vault (strong room) doors of same class, manufactured in one week, shall constitute a control unit.

**5. LEVELS OF CONTROL** - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

**5.1** All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

**6. REJECTIONS** – 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**

| (1)          |                                       |                     |                   | (2)   | (3)   |                        |  |
|--------------|---------------------------------------|---------------------|-------------------|---|---|------------------------|--|
| Test Details |                                       |                     |                   | Test equipment requirement<br>R: required<br>(or)<br>S: Sub-contracting permitted | Levels of Control   |                        |  |
| Cl.          | Requirement                           | Test Method         |                   |   | No. of Sample   | Frequency              | Remarks  |
|              |                                       | Clause              | Reference         |   |   |                        |  |
| 6            | Material                              | 6, 8.2.1 & Table 2  | IS 11188 (Part 1) | S   | One   | Each Consignment       | Materials at Table 2 of Standard may be used for guidance. No testing will be required if the consignment is received with test certificate or ISI Marked. |
| 5            | Dimensions                            | 5 & Table 1         | IS 11188 (Part 1) | R   | One   | One control unit       |  |
| 8            | Construction and general requirements | 8.1 to 8.3          | IS 11188 (Part 1) | R   | One   | One control unit       |  |
|              | Tests for locks                       | 8.4                 | IS 11188 (Part 1) | R   | One sample out of every batch of lock manufactured or every consignment of locks received subject to minimum of 1 per month |                        | The lock drawn as a sample and tested shall not be used in the product after testing. Appropriate record of such lock shall be maintained.                 |
| 9            | Door fittings                         | 9.1-9.4             | IS 11188 (Part 1) | R   | One   | One control unit       |  |
| 10           | Finish                                | 10.1 to 10.2 & 10.4 | IS 11188 (Part 1) | R   | One   | One control unit       |  |
| 10.3         | Cross Hatch                           | 10.3                | IS 11188 (Part 1) | R   | One   | One month's production |  |

|    |                                |              |                   |   |            |         |   |
|----|--------------------------------|--------------|-------------------|---|------------|---------|---|
| 11 | Tests for conformity           | 11.1 to 11.3 | IS 11188 (Part 1) |   |            |         | These tests are considered as type tests and shall be carried out for initial approval of the design or at any subsequent changes in the design of the vault doors. These tests shall be conducted once in four years in such a way that entire product range covered in the licence is tested at least once in 4 years |
|    | a) Burglary Resistance         | 5            | IS 11188 (Part 2) | S | Three/One* | 4 years |   |
|    | b) fire endurance#             | 4.4          | IS 11188 (Part 3) | S | One#       | -do-    |   |
|    | c) Fire- Hose- Stream- Reheat# | 4.5          | IS 11188 (Part 3) | S | One#       | -do-    |   |

\* Three samples for Class B and C; One sample for Class A, AA and AAA.

# Applicable to only Class B and C.

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: The control unit and levels of control as decided by the Bureau are obligatory, to which the licensee shall comply with.