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Jawaharlal Nehru

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IS 7850 (1975): wooden box for microscope slides [CED 9: Timber and Timber Stores]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS: 7850-1975
(Reaffirmed 2010)

Indian Standard
SPECIFICATION FOR
WOODEN BOX FOR MICROSCOPE SLIDES

(First Reprint JANUARY 1998)

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR WOODEN BOX FOR MICROSCOPE SLIDES

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AMENDMENT NO. 1 SEPTEMBER 1977
TO
IS:7850-1975 SPECIFICATION FOR WOODEN
 BOX FOR MICROSCOPE SLIDES

Alteration

*(Page 4, Fig. 1) - Substitute '25 mm
BRASS HINGES' for 'HINGE'*

(BDC 33)

Reprography Unit, ISI, New Delhi

Indian Standard

SPECIFICATION FOR WOODEN BOX FOR MICROSCOPE SLIDES

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 11 November 1975, after the draft finalized by the Timber Stores Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 This standard covers the requirements of a wooden box intended for housing microscope slides to ensure their proper handling and keeping. A proper index on the inner side of the lid will also provide information regarding details of the corresponding slide.

0.3 In the formulation of this standard due weightage has been given to international co-ordination among the standards and practices prevailing in different countries in addition to relating it to the practices in the field in this country.

0.4 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard covers the requirements of a wooden box intended for keeping 100 microscope slides.

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS : 707-1968† shall apply.

*Rules for rounding off numerical values (*revised*).

†Glossary of terms applicable to timber and timber products (*first revision*).

3. MATERIAL

3.1 Timber — The frame and slide rack of the box shall be manufactured from any of the species of timber given in Appendix A. Only one species of timber shall be used for the manufacture of any one frame or slide rack in the box.

3.1.1 The timber shall be well seasoned to a moisture content not exceeding 12 percent and the inclination of grain shall not exceed 1 in 10. The timber shall be free from centre heart (pith), sapwood (except in case of coniferous timbers and Haldu), any kind of decay (rot), shakes, insect attack, knots, cracks, splits and warp.

3.2 Plywood — The bottom and top of the box shall be manufactured from 5 mm thick plywood conforming to Type BC, WWR Grade of IS : 303-1975*.

4. DIMENSIONS AND TOLERANCES

4.1 The box shall conform to the dimensions as shown in Fig. 1.

4.2 A tolerance of ± 1 mm may be permitted on the overall dimensions of the box.

5. MANUFACTURE

5.1 The box shall be rectangular having two slide racks fitted in the body and a hinged lid at the top. The two racks shall have 50 grooves equally spaced, 2.7 mm wide, each numbered 1 to 100 to accommodate 50 slides in each row. The bottom and top of the box (see 3.2) shall be fixed to the frame with brass pins. Two brass hooks on the front of the body shall be provided to enter the two corresponding eyes on the lid to ensure firm closure of the box. A paper index, which shall also be numbered 1 to 100 to carry necessary details of the corresponding slides, shall be pasted on the inside of the lid.

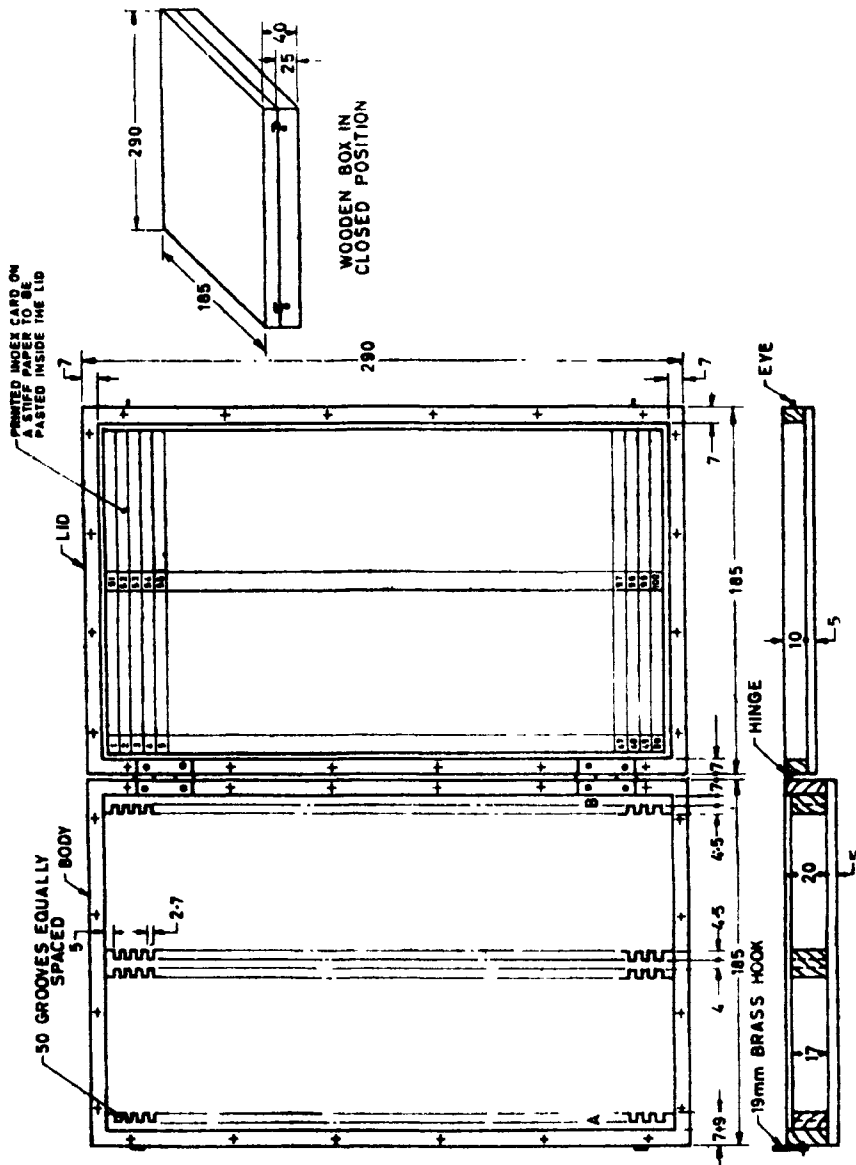
6. WORKMANSHIP AND FINISH

6.1 The box shall be smoothly finished. The paper index shall also be neatly pasted to the inside of the lid. The box shall be varnished on the outside with a waterproof clear varnish to impart a good finish.

7. SAMPLING

7.1 The method of drawing representative samples of boxes and the criteria for conformity shall be as prescribed in Appendix B.

*Specification for plywood for general purposes (second revision).



NOTE — Two stiff paper-strips one bearing printed numbers from 1 to 50 and the other from 51 to 100 corresponding to slide grooves to be pasted at *A* and *B*.

All dimensions in millimetres.

FIG. 1. WOODEN BOX FOR MICROSCOPE SLIDE

8. MARKING

8.1 Unless otherwise specified, each box shall be legibly and indelibly marked with the following information:

- a) Manufacturer's name or initials or recognized trade-mark, if any;
- b) Year of manufacture; and
- c) Species of timber (see **3.1** and Appendix A).

8.1.1 The wooden box may also be marked with Standard mark.

8.1.2 The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act, 1986 and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

9. PACKING

9.1 Packing shall be as agreed to between the purchaser and the supplier.

APPENDIX A

(Clause 3.1)

SPECIES OF TIMBER

A-1. SPECIES FOR FRAME WORK

TRADE NAME	BOTANICAL NAME	ABBREVIATION
Aini	<i>Artocarpus hirsutus</i> Lamk.	AIN
Amari	<i>Amoora</i> spp.	AMA
Badam	<i>Terminalia procera</i>	BAD
Banati	<i>Lophopetalum wightianum</i> Arn.	BAN
Benteak	<i>Lagerstroemia lanceolata</i> Wall.	BEN
Chaplash	<i>Artocarpus chaplasha</i> Roxb.	CHP
Chickrassy	<i>Chukrasia tabularis</i> A. Juss.	CHI
Chir	<i>Pinus roxburghii</i> Sargent	CHR
Cypress	<i>Cupressus torulosa</i> D. Don	CYP
Deodlar	<i>Cedrus deodara</i> D. Don	DEO

IS : 7850 - 1975

TRADE NAME	BOTANICAL NAME	ABBREVIATION
Fir	<i>Abies</i> spp.	FIR
Gamari	<i>Gmelina arborea</i> Roxb.	GAM
Hollock	<i>Terminalia myriocarpa</i> Heurck et Muell Arg.	HOL
Jarul	<i>Lagerstroemia speciosa</i> Pers.	JAR
Kail	<i>Pinus wallichiana</i> A. B. Jacks	KAL
Kaim	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	KAI
Khasi Pine	<i>Pinus insularis</i> Endl.	KPI
Lampati	<i>Duabanga grandiflora</i> Walp.	LAP
Sissoo	<i>Dalbergia sissoo</i> Roxb.	SIS
Spruce	<i>Picea smithiana</i> Boiss.	SPR
Teak	<i>Tectona grandis</i> Linn. f.	TEA

A-2. SPECIES FOR SLIDE RACK

Birch	<i>Betula</i> spp.	BIR
Bonsum	<i>Phoebe</i> spp.	BON
Boxwood	<i>Buxus sempervirens</i> Linn.	BOX
Champ	<i>Michelia champaca</i>	CHM
Ehony	<i>Diospyros</i> spp. (other 'than D. mar- morata Parker)	EBO
Gamari	<i>Gmelina arborea</i> Roxb.	GAM
Gardenia	<i>Gardenia</i> spp.	GAR
Haldu	<i>Adina cordifolia</i> (Roxb.) Hk. f.	HAL
Horse Chestnut	<i>Aesculus indica</i> Colebr.	HCH
Kaim	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	KAI
Maple	<i>Acer</i> spp.	MAP
Mullilam	<i>Zanthoxylum rhetsa</i> [(Roxb.) DC]	MUI
Parrotia	<i>Parrotiopsis jacquemontiana</i> (Deene.) Rehd. (Syn. <i>Parrotia jacquemontiana</i> Deene)	PAR
Randia	<i>Randia dumetorus</i>	—
Teak	<i>Tectona grandis</i> Linn. f.	TEA
Walnut	<i>Juglans</i> spp.	WAL
White Cedar	<i>Dysoxylum malabaricum</i> Bedd.	WCE
White Chuglam	<i>Terminalia bialata</i> Steud. (Sapwood)	WCH

APPENDIX B

(Clause 7.1)

SAMPLING OF WOODEN BOXES FOR MICROSCOPE SLIDES

B-1. SAMPLING AND TESTING

B-1.1 Lot — In any consignment, all the boxes manufactured under similar conditions of production shall be grouped together to constitute a lot.

B-1.2 Visual Examination — All the boxes in the lot shall be inspected for visual defects, workmanship and finish. Any box failing to satisfy the requirements for these characteristics shall be rejected. Those boxes which pass the visual examination shall be subjected to further tests.

B-1.3 Selection of Samples for Further Tests — The number of boxes to be selected for further testing from those accepted as in **B-1.2** shall be in accordance with col 1 and 2 of Table 1.

TABLE 1 SAMPLE SIZE AND CRITERIA FOR CONFORMITY

LOT SIZE	SAMPLE SIZE	PERMISSIBLE NO. OF DEFECTIVES
(1)	(2)	(3)
51 to 100	5	0
101 „ 150	8	0
151 „ 300	13	1
301 „ 500	20	2
501 „ 1 000	32	3
1 001 and above	50	5

NOTE — For the lot of 50 or less boxes, the sample size and the criteria for conformity shall be as agreed to between the purchaser and the supplier.

B-1.3.1 The samples shall be selected at random. In order to ensure the randomness of selection, the procedures given in IS : 4905-1968* may be followed.

B-1.3.2 All the boxes selected as in **B-1.3** shall be tested for dimension and tolerances (*see 4*), and manufacturing details (*see 6*).

B-2. CRITERIA FOR CONFORMITY

B-2.1 The lot shall be considered as conforming to the requirements of the standard if the number of boxes failing to satisfy any one or more of the requirements does not exceed the corresponding permissible number of defectives given in col 3 of Table 1.

*Method for random sampling.

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