भारतीय मानक Indian Standard

IS 2202 (Part 2): 2022

लकड़ी के सपाट दरवाजे के शटर (ठोस कोर प्रकार) — विशिष्टि

भाग 2 पार्टिकल बोर्ड, उच्च घनत्व फाइबर बोर्ड, मध्यम घनत्व फाइबर बोर्ड एवं फाइबर हार्डबोर्ड सतहयुक्त पल्ले

(चौथा पुनरीक्षण)

Wooden Flush Door Shutters (Solid Core Type) — Specification

Part 2 Particle Board, High Density Fibre Board, Medium Density Fibre Board and Fibre Hardboard Face Panels

(Fourth Revision)

ICS 91.060.50

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FOREWORD

This Indian Standard (Part 2) (Fourth Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Doors, Windows and Shutters Sectional Committee had been approved by the Civil Engineering Division Council.

This standard was first published in 1962 and subsequently revised in 1966, 1980 and 1983. During this period, the standard has undergone modifications relating to grade of doors, species of timbers, inclusion of tests, etc.

Wooden flush door shutters using particle board, high density fibre board (HDF), medium density fibre board (MDF) and hardboard for face panels are generally manufactured in the same way as the doors with plywood face panels. This standard, therefore, covers only the necessary requirements and provisions which are additional or alternative to those covered in IS 2202 (Part 1).

In this revision, considering the rapid changes in lifestyle as well as material availabilities and acceptance of ecofriendly options in door constructions during last for decades, number of improvements changes have been made.

In this revision, the following major modifications have been incorporated:

- a) Medium density fibre board (MDF) and high density fibre board (HDF) have been included as face panel materials and accordingly the title and scope of the standard has been modified.
- b) Wooden flush door shutters (solid core type) have been categorized in two grades that is BWP (Boiling Water Proof) Grade and MR (Moisture Resistance) Grade.
- c) Particle board with block board type core has been deleted.
- d) Thickness criteria for flush door shutter designations 8 DS 20 and 8 DS 21 have been revised.
- e) Raw materials requirements for face panel have been updated.
- f) All the amendments issued to the previous version of the standard have been absorbed, and the text of the standard has been suitably modified to make it more user friendly.

A scheme of labelling environment friendly products known as ECO-Mark has been instituted at the instance of the Ministry of Environment, Forests and Climate Change, Government of India. The ECO-Mark is administered by the Bureau of Indian Standards (BIS) under the Bureau of Indian Standards Act, 2016 as per the Resolution No. 71 dated 21 February 1991 and Resolution No. 425 dated 20 October 1992 published in the Gazette of the Government of India. For a product to be eligible for ECO-Mark, it shall also carry the Standard Mark (ISI mark) of BIS besides meeting additional environment friendly requirements. For this purpose, the Standard Mark of BIS would be a single mark being a combination of the ISI Mark and the Eco logo. Requirements to be satisfied for a product to qualify for the BIS Standard Mark for eco friendliness, will be optional. Manufacturing units will be free to opt for ISI Mark alone also.

The ECO mark criteria is based on the Gazette Notification No. 170 dated 16 May 1996 for wood substitutes as environment friendly products published in the Gazette of Government of India, as revised/amended from time to time.

The composition of the Committee responsible for the formulation of this standard is given at Annex B.

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: 2022 'Rules for rounding of numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

WOODEN FLUSH DOOR SHUTTERS (SOLID CORE TYPE) — SPECIFICATION

PART 2 PARTICLE BOARD, HIGH DENSITY FIBRE BOARD, MEDIUM DENSITY FIBRE BOARD AND FIBRE HARDBOARD FACE PANELS

(Fourth Revision)

1 SCOPE

This standard (Part 2) specifies the requirements for wooden flush door shutters of solid core type with face panels of particle board and high density fibre board (HDF), medium density fibre board (MDF) and hardboard face panels.

2 REFERENCES

The standards listed in Annex A contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A.

3 TERMINOLOGY

For the purpose of this standard, the definitions given in IS 10428, IS 707 and the following shall apply.

- **3.1 Type Tests** Tests carried out to prove conformity with the specification, which are intended for product/type approval of a given construction or a prototype of door shutters.
- **3.2 Acceptance Tests** Tests carried out on sample taken from a lot passing type tests for the purpose of acceptance of the lot on a batch to batch basis.

4 GRADE, TYPE AND CONSTRUCTION

- **4.1** Flush door shutters shall be of the following two grades:
 - a) BWP (Boiling Water Proof) Grade Such flush door shutters recommended to use at humid and dry locations.
 - b) MR (Moisture Resistance) Grade Such flush door shutters recommended to use at in dry locations only.
- **4.2** Each of the grades specified in **4.1** shall be of the different types and construction of the core as given in Table 1.

5 SIZES AND TOLERANCES

Sizes and thickness of the door shutters shall conform to the modular sizes specified in Table 2 (see Fig. 1). Sizes other than modular sizes, as agreed to between the manufacturer and the purchaser, may also be permitted; provided, the thickness of shutters in such cases shall be equal to that specified against the nearest higher modular size given in Table 2.

However, for sizes greater than 12 DT 21, the thickness of such shutters shall be greater than 35 mm and shall be as agreed to between the manufacturer and the purchaser.

6 MATERIAL

6.1 Timber

Any species of timber for may be used as stiles and rails in the flush door shutters. The species of timber suitable for use in the stiles, rails and lipping core of flush door shutters for guidance purpose as specified in IS 2202 (Part 1). Moisture content and permissible defects therein and preservative treatment required for use in the core and lipping shall conform to the relevant requirements laid down in IS 2202 (Part 1).

6.2 Alternative Materials

Laminated veneer lumber (LVL) conforming to IS 14616, veneer laminated lumber (VLL) conforming to IS 16171, medium density fibre board (MDF) conforming to Grade 1 of IS 12406, high density fibre board (HDF), plywood conforming to IS 710 and IS 303 for BWP grade flush door shutter and MR grade flush door shutter respectively, may also be used for stiles and rails.

6.3 Face Panels: Particle Board/HDF/MDF/Fibre Hardboard

6.3.1 Particle board used for face panel of flush door shutters of B N P, P N P and M N P types shall conform to FPT-1 designation of IS 3087.

Table 1 Designation of Wooden Flush Door Shutters, Solid Core Type with Particle Board, HDF, MDF and Fibre Hardboard Face Panels

[Clauses 4.2 and 13.1 (c)]

Sl No.	Core	Туре	Abbreviation
(1)	(2)	(3)	(4)
i)	Blockboard	Decorative with skins of decorative veneered/prelaminated particle board/HDF/MDF	BDPV
		Non-decorative with skins of particle board/MDF/HDF unveneered	BNP
		Non-decorative with skins of particle board/HDF/MDF veneered with commercial veneers	BNPV
ii)	Particle board	Decorative with skins of decorative veneered/prelaminated particle board/HDF/MDF	PDPV
		Non-decorative with skins of particle board/HDF/MDF unveneered	PNP
		Non-decorative with skins of particle board/HDF/MDF veneered with commercial veneers	PNPV
iii)	Medium density fibre board	Decorative with skins of decorative veneered/prelaminated particle board/HDF/MDF	MDPV
		Non-decorative with skins of particle board/HDF/MDF unveneered	MNP
		Non-decorative with skins of particle board/HDF/MDF veneered with commercial veneers	MNPV

Table 2 Dimensions of Flush Door Shutters

[Clauses 5 and 13.1 (e)]

Sl No.	Designation of Door Shutters	Width mm	Height mm	Thickness mm
(1)	(2)	(3)	(4)	(5)
i)	8 DS 20	700	1 905 (1 945)	25 20
ii)	8 DS 21	700	2 005 (2 045)	25 or 30
iii)	9 DS 20	800	1 905 (1 945)	20
iv)	9 DS 21	800	2 005 (2 045)	30
v)	10 DS 20	900	1 905 (1 945)	25
vi)	10 DS 21	900	2 005 (2 045)	35
vii)	12 DT 20	1 100*	1 905 (1 945)	25
viii)	12 DT 21	1 100*	2 005 (2 045)	→ 35

NOTES

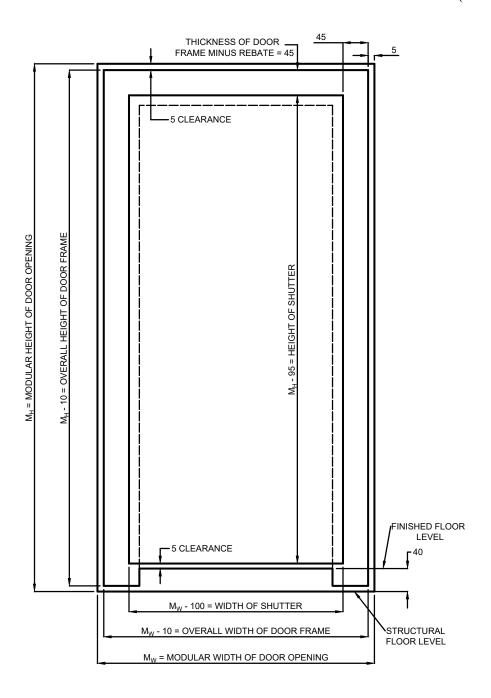
¹ D = Door, S = Single Shutter, and T = Double Leaf Shutter.

² The designation indicates the size of door opening, the first number referring to width in modules of 100 mm and the last number the height in modules of 100 mm.

³ Standard sizes of door frames are covered in IS 4021 and 4351.

⁴ In arriving at the standard widths and heights of flush door shutters, allowance have been made as given in Fig. 1. In case, the modular height of door opening is taken from finished floor level, the height of the flush door shall be the one given in the bracket. In case of double shutters, the rebate shall be as given in 7.7 of IS 2202 (Part 1).

^{*} Combined width of two shutters in closed position.



All dimensions in millimetres
Fig. 1 Sketch Illustrating Dimensions of Shutter

- **6.3.2** MDF board and HDF board used for face panel of flush door shutters of B N P, P N P and M N P types shall conform to requirements of Grade 1 of IS 12406 and except the density of HDF shall be more than 900 kg/m³.
- **6.3.3** For B D P V, P D P V and M D P V types of flush door shutters, face panel of veneered particle board of SO D-I type conforming to IS 3097, prelaminated particle board of Grade I conforming to IS 12823, prelaminated MDF board of Grade I conforming to IS 14587 and HDF conforming to requirements of Grade 1 of IS 12406 and except the density of HDF shall be more than 900 kg/m³.
- **6.3.4** For flush door shutters of B N P V, P N P V and M N P V, the face panel of veneered particle board of SO GP-I type conforming to IS 3097, particle board of FPT-I conforming to IS 3087, MDF board and HDF board conforming to requirements of Grade 1 of IS 12406 except density of HDF board shall be more than 900 kg/m³, with commercial veneers conforming to IS 14315 shall be used.
- **6.3.5** For shutters with fibre hardboard face, tempered hardboard conforming to IS 1658 shall be used.

6.4 Adhesive

Adhesives used for bonding particle board or HDF or MDF or fibre hardboard face panels to the core shall be synthetic resin conforming to BWP grade specified in IS 848 for BWP grade flush door shutter and MR grade specified in IS 848 for MR grade flush door shutter.

6.5 The swelling in thickness of the particle board, MDF and HDF board for core when tested in accordance with IS 2380 (Part 17) shall not exceed 5 percent.

7 CONSTRUCTION

7.1 The construction of flush door shutters shall be in accordance with the relevant requirements laid down in IS 2202 (Part 1) with modification as given in **7.2** and **7.3**.

7.2 Face Panel

The face panel shall be formed by gluing by the hot or cold or high frequency press process on both faces of the core particle board or HDF board or MDF board or fibre hardboard. In any case, the thickness of each of the face panels shall not be less than 3 mm.

7.3 Flush doors with particle board or MDF board or HDF board or fibre hardboard face panels shall have their edges lipped by timber external lipping of any of the species mentioned in Annex B of IS 2202 (Part 1) for guidelines or by any other edge banding (as agreed to

between the manufacturer and the purchaser) and shall be glued using a moisture resistant glue.

8 FITTINGS

8.1 Locks

Shutters shall be shop-prepared for taking mortice locks or latches as may be ordered. Shop preparing the door with morticed holes for lock fixing shall be done only when desired by the purchaser. Where the purchaser so desires, suitable blocks of wood or LVL or VLL may be provided for fixing the hardware. In the absence of specific requirements, block preferably correspond to the maximum size of lock covered in IS 16015.

8.2 Other fittings such as pull bolt, tower bolt, door handle, etc, may be provided as agreed to between the purchaser and the manufacturer.

9 WORKMANSHIP AND FINISH

- **9.1** All the four edges of the door shutter shall be square.
- **9.2** When face panels are unfinished, both faces of the door shutter shall be smooth even texture. If required by the purchaser, all surfaces of shutters which are required to be painted ultimately shall be covered evenly by brush painting with suitable priming coat as may be ordered by the purchaser, *see* also IS 2338 (Part 1).
- **9.3** Workmanship and finish of face panels shall conform to the requirements of respective grades/types as mentioned in **6.3** and also, if desired, as agreed to between the manufacturer and the purchaser.

10 TESTS

10.1 The tests for flush door shutters shall be as laid down in 10 and 11 of IS 2202 (Part 1) except knife test and with the modification in the two tests as given in 10.2 and 10.3.

10.2 End Immersion Test

When tested in accordance with IS 4020 (Part 13), there shall be no delamination at the end of the test. Glue lines in between the face panels and the stile and rail shall be examined for delamination. The immersion cycles for MR grade door shutter shall however be three.

10.3 Glue Adhesion Test

Door shutters, when tested in accordance with IS 4020 (Part 15), door shutters shall be considered to have passed the test if no delamination occurred between the face panels and the stile and rail. Delamination at

a knot, knot hole, a pitch pocket and wormhole or other permissible wood defects shall not be considered in assessing the sample. A door shutter shall be deemed to have passed the test if both the specimen tested passed the test. However, in the test for MR grade door shutter, the water with submerged specimens shall be bought to (60 ± 2) °C in the place of boiling water.

11 SAMPLING AND CRITERIA FOR CONFORMITY

The sampling and criteria for conformity for flush door shutters shall be as laid down in 12 of IS 2202 (Part 1).

12 ADDITIONAL REQUIREMENTS FOR ECO MARK

Door shutters shall be manufactured from wood from sources other than natural forests, such as timber from industrial and social forestry plantations, shade trees from tea and coffee estates, etc, as specified in IS 2202 (Part 1) and such doors shutters shall conform to the requirements of quality and performance as specified in this standard as well as the requirements of ECO Mark for all the referred standards.

NOTES

- 1 The manufacturers shall provide documentary evidence by way of certificate or declaration to Bureau of Indian Standards which applying for ECO Mark.
- 2 The manufacturers shall provide BIS environmental consent clearance from the concerned State Pollution Control Board as per the provisions of the *Water (Prevention and Control of Pollution) Act*, 1974 and *Air (Prevention and Control of Pollution) Act*, 1981 along with the authorization, if required under the *Environment (Protection) Act*, 1986, while applying for ECO Mark.

13 MARKING

- **13.1** Each shutter shall be legibly and indelibly marked on any of its edges with the following information:
 - a) Name of the manufacturer or trade-mark, if any;
 - b) Grade of door shutter;
 - c) Abbreviation indicating the nature of construction of the shutter (see Table 1);
 - d) Whether the size of the shutter is 'Modular' or 'Non-modular';
 - e) Designation as specified in Table 2 of the standard for modular sizes; or the actual sizes (width and height) for non-modular sizes along with appropriate symbols for door shutters as given in Table 2;
 - f) Thickness of door shutter;
 - g) Species of timber, in case of ECO Mark; and
 - h) The criteria for which the shutter has been labelled as ECO Mark (in case the flush door shutter has been marked with ECO Mark).

13.2 BIS Certification Marking

The shutters conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the shutters may be marked with the Standard Mark.

ANNEX A

(Clause 2)

LIST OF REFERRED INDIAN STANDARDS

Sl No.	Title	Sl No.	Title	
303 : 1989	Plywood for general purposes — Specification (<i>third revision</i>)	3097 : 2006	Veneered Particle Boards — Specification (second revision)	
707 : 2011	Timber technology and utilization of wood, bamboo and cane — Glossary of terms	4020 (Parts 1 to 16): 1998 4021: 1995	Door shutters — Methods of tests (third revision) Timber door, window	
710 : 2010	(third revision) Marine plywood — Specification	1021 . 1993	and ventilator frames — Specification (third revision)	
848 : 2006	(second revision) Synthetic resin adhesives	4351 : 2003	Steel door frames — Specification (second revision)	
040.2000	for plywood (phenolic and aminoplastic) — Specification	10428 : 1983/ ISO 1804 : 1972	Glossary of terms relating to doors	
1658 : 2006	(second revision) Fibre hardboards — Specification (third revision)	12406 : 2021	Medium density fibre boards for general purpose — Specification (second revision)	
2202 (Part 1): 2022	Wooden flush door shutters (solid core type) — Specification: Part 1 Plywood face panels (seventh revision)	12823 : 2015	Prelaminated particle boards from wood and other lignocellulosic material — Specification (first revision)	
2338 (Part 1): 1967	Code of practice for finishing of wood and wood based materials: Part 1 Operations and workmanship Methods of test for wood particle boards and boards from other lignocellulosic materials: Part 17 Determination of swelling in water (first revision) Particle boards of wood and other lignocellulosic materials (medium density) for general purposes — Specification (second revision)	14315 : 1995	Commercial veneers — Specification	
2200 (B. + 17)		14587 : 1998	Prelaminated medium density fibre board — Specification	
2380 (Part 17) : 1977		14616 : 1999	Laminated veneer lumber — Specification	
		16015 : 2013	Mortice locks with lever mechanism (vertical type, sliding	
3087 : 2005			door locks and dead locks) — Specification	
		16171 : 2014	Veneer laminated lumber — Specification	

ANNEX B

(Foreword)

COMMITTEE COMPOSTION

Doors, Windows and Shutters Sectional Committee, CED 11

Organization Representative(s)

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Delhi Development Authority, New Delhi

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