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Jawaharlal Nehru

“Step Out From the Old to the New”

IS 12680 (1989): Wooden sofa-cum-bed- [CED 35: Furniture]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS 12680 : 1989
Reaffirmed 2007

Indian Standard

WOODEN SOFA-CUM-BED — SPECIFICATION

UDC 684.433.3.041

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

November 1989

Price Group 1

**AMENDMENT NO. 1 SEPTEMBER 1993
TO
IS 12680 : 1989 WOODEN SOFA-CUM-BED —
SPECIFICATION**

(*Page 1, clause 4.5*) — Add the following new clause after 4.5 and renumber the subsequent clauses:

“4.6 Medium Density Fibreboard (MDF)

MDF used for the manufacture of wooden sofa -cum -bed shall conform to IS 12406 : 1988 ‘Specification for medium density fibreboard for general purposes’.”

(*Page 1, clause 6.1, line 5*) — Insert ‘or MDF’ after the words ‘block board’.

(CED 35)

Reprography Unit, BIS, New Delhi, India

**AMENDMENT NO. 2 FEBRUARY 1997
TO
IS 12680 : 1989 WOODEN SOFA-CUM-BED —
SPECIFICATION**

(*Second cover page, foreword*) — Insert the following after second para:

'A scheme of labelling environment friendly products to be known as ECO Mark is being introduced at the instance of the Ministry of Environment and Forests (MEF), Government of India. The ECO Mark shall be administered by the Bureau of Indian Standards (BIS) under the *BIS Act*, 1986 as per the Regulation No.71 dated 21 February 1991 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 of the BIS besides meeting additional optional environment friendly requirements.'

(*Page 1, clause 4.1*) — Substitute the following for the existing clause:

"4.1 Timber — Any species of timber specified in IS 13622 : 1993 'Indian timber for furnitures and cabinets — Classification' shall be used in the manufacture of wooden sofa-cum-bed.

4.1.1 For ECO Mark, only species of timber as specified in IS 13622 : 1993 from sources other than natural forests such as timber from industrial and social forestry plantations, shade trees from tea and coffee estates, etc, shall be used for the manufacture of wooden sofa-cum-bed."

(*Page 1, clause 4.2*) — Insert the following at the end of the clause:

'For ECO Mark, the particle board shall conform to the requirements specified in IS 3087:1985 for ECO Mark purposes.'

(*Page 1, clause 4.3*) — Insert the following at the end of the clause:

'For ECO Mark, the veneered particle board shall conform to the requirements specified in IS 3097 : 1980 for ECO Mark purposes.'

(*Page 1, clause 4.4*) — Insert the following at the end of the clause:

'For ECO Mark, the blockboard shall conform to the requirements specified in IS 1659 : 1990 for ECO Mark purposes.'

(*Page 1, clause 4.5*) — substitute the following for the existing clause:

"4.5 Plywood — Plywood used shall conform to IS 303 : 1989 'Specification for plywood for general purposes (*third revision*)'.

Amend No.2 to IS 12680 : 1989'

4.5.1 For ECO Mark the plywood shall conform to the requirements specified in IS 303 : 1989 for ECO Mark purposes."

[Page 1, clause 4.6 (see also Amendment No.1)] - Insert the following at the end of the clause:

'For ECO Mark, the medium density fibreboard shall conform to the requirements specified in IS 12486 : 1988 for ECO Mark purposes:

(Page 2, clause 7) - Insert the following new clause after 7 and renumber the subsequent clause:

'8. ADDITIONAL REQUIREMENTS FOR ECO MARK

8.1 General Requirements

8.1.1 The product shall conform to the requirements of quality and performance as specified in the standard.

8.1.2 The manufacturer shall produce to 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* alongwith the authorization, if required under the *Environment (Protection) Act, 1986*, while applying for ECO Mark.

8.2 Specific Requirements

The product shall conform to the specific requirements given for ECO Mark under relevant clauses of this standard.

NOTE - The manufacturer shall provide documentary evidence by way of certification or declaration to this effect to the Bureau of Indian Standards while applying for ECO Mark.

[Page 2, clause 8.1 (renumbered as 9.1)] - Insert the following new clause after renumbered clause '1:

'9.2 The criteria for which the product has been labelled as ECO Mark.'

(CEO 35)

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards on 23 May 1989, after the draft finalized by the Furniture Sectional Committee had been approved by the Civil Engineering Division Council.

Wooden furniture is being made in the country over a number of years. However, the sizes, finish and functions of furniture items as made by various manufacturers require to be co-ordinated. This standard is being issued with a view to rationalize the sizes, the type and functional requirements and finishes of wooden sofa-cum-bed in the interest of the manufacturers and the consumer.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the results of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. 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 SOFA-CUM-BED — SPECIFICATION

1 SCOPE

1.1 This standard lays down requirements of materials, functional dimensions and finishes of wooden sofa-cum-bed used as domestic furniture.

2 REFERENCES

2.1 The Indian Standards listed in Annex A are necessary adjuncts to this standard.

3 TERMINOLOGY

3.0 For the purpose of this standard, the following definitions shall apply.

3.1 Hard Seat

A seat without cushioning material.

3.2 Seat Height

The height of the seat means the distance of the top of the seat from the floor surface. In case of cushion seats or seats with springs, the height shall be measured after applying a uniform load of 70 kg on the entire seating surface meant for sitting/sleeping one person.

3.3 Sofa-cum-Bed

A form of sitting room furniture capable of being used for sitting, relaxing, sleeping, etc.

3.4 Sofa Seat

A seat provided or covered with cushioning material.

4 MATERIALS

4.1 Timbers

Timbers to be used for making wooden frames, etc, for sofa-cum-bed shall be well seasoned as given in IS 1141 : 1973. When timbers are used, sap-wood of durable species and timbers of non-durable species shall be given preservative treatment in accordance with IS 401 : 1982. The moisture content of timber shall conform to IS 287 : 1973.

4.2 Particle Board

Wood particle boards required for manufacture of wooden sofa-cum-bed shall conform to IS 3087 : 1986, and shall be of type FPT, that is, flat-pressed-three-layer type.

4.3 Veneered Particle Board

Veneered particle board used for the manufacture of wooden sofa-cum-bed shall conform to IS 3097 : 1980.

4.4 Block Boards

Block boards used for the manufacture of wooden sofa-cum-bed shall conform to IS 1659 : 1979.

4.5 Plywood

Plywood required for the manufacture of wooden sofa-cum-bed shall conform to IS 303 : 1975. Any of the three grades of plywood, that is, BWR, WWR and CWR can be used where air-drying paints, enamel or varnishes are to be used or where the plywood is to be covered with decorative laminates. Where finishing is to be done with suitable over-drying paints, enamels or varnishes, only BWR grade of plywood shall be used. The plywood used shall not be inferior to Type B.

4.6 Screws

Screws shall conform to IS 1365 : 1978 or IS 6760 : 1972.

4.7 Adhesives

Adhesive used for joining shall conform to IS 848 : 1974, IS 851 : 1978, IS 852 : 1969 or IS 4835 : 1979.

4.8 Decorative Plastic Laminates

Decorating plastic laminates required for the manufacture of sofa-cum-bed shall conform to IS 2046 : 1969 and shall be of the design and finish as prescribed by the purchaser.

4.9 Paint

Enamel, polish and varnish shall be in accordance with the schedule given in IS 2338 (Part 2) : 1967.

5 DIMENSIONS AND TOLERANCES

5.1 The overall dimensions of sofa-cum-bed shall be as follows (see Fig. 1)

- a) Seat height : 380 to 400 mm,
- b) Clear seat depth : 550 to 600 mm, and
- c) Height of back above the seat : 400 to 450 mm.

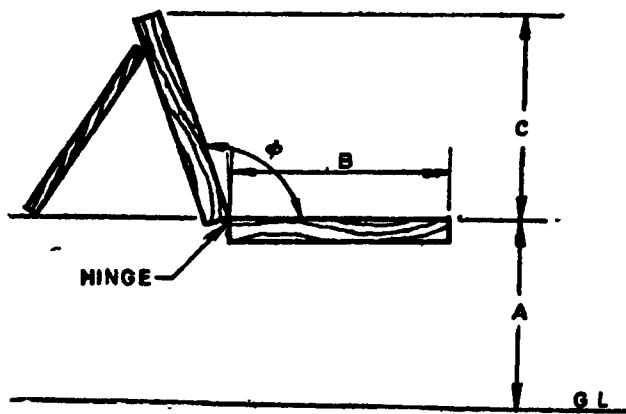
5.2 Tolerances

The overall dimensions specified in 5.1 shall not vary by more than ± 5 mm.

6 FABRICATION

6.1 Components

The wooden sofa-cum-bed may be made in component form and then assembled. The



- A = Seat height
 B = Seat depth
 C = Height of back surface above seat
 ϕ = Included angle (110 to 115°)

FIG. 1 SOFA-CUM-BED

sides shall be made from wood particle board or veneered particle board or plywood or block board with thickness 20 mm with a tolerance of 1 mm. Joinery shall be generally as described in IS 3845 : 1965.

7 PERFORMANCE REQUIREMENTS OF FINISH

7.1 Every sofa-cum-bed shall be checked for good workmanship and free from any stain and warp.

7.2 Resistance to Dry Heat

The test sample surface shall be tested for resistance to dry heat in accordance with IS 5807 (Part 1) : 1975. The minimum qualifying average ratings shall conform to 7 of IS 5807 (Part 1) : 1975.

7.3 Resistance to Wet Heat

The test sample surface shall be tested for resistance to wet heat in accordance with IS 5807 (Part 2) : 1975. The minimum qualifying average rating shall conform to 7 of IS 5807 (Part 2) : 1975.

7.4 Resistance to Marking by Oils and Fats

The test sample surface shall be tested for resistance to marking by oils and fats in accordance with IS 5807 (Part 3) : 1971. The test result should conform to 5 and 6 of IS 5807 (Part 3) : 1971.

7.5 Resistance to Marking by Liquids

The test sample surface shall be tested for resistance to marking by liquids in accordance with IS 5807 (Part 4) : 1975. The minimum qualifying average rating shall conform to 8 of IS 5807 (Part 4) : 1975.

8 MARKING

8.1 All wooden sofa-cum-bed shall be marked with a suitable mark identifying the manufacturer.

ANNEX A (Clause 2.1)

LIST OF REFERRED INDIAN STANDARDS

IS No.	Title	IS No.	Title
IS 287 : 1973	Recommendations for maximum permissible moisture content for timber used for different purposes (<i>second revision</i>).	IS 2338	Code of practice for finishing of wood and wood based materials: Part 2 Schedules.
IS 303 : 1975	Plywood for general purposes (<i>second revision</i>).	IS 3087 : 1986	Wood particle boards (<i>first revision</i>).
IS 401 : 1982	Code of practice for preservation of timber (<i>third revision</i>).	IS 3097 : 1980	Veneered particle boards (<i>first revision</i>).
IS 848 : 1974	Synthetic resin adhesives for plywood (phenolic and amino-plastic) (<i>first revision</i>).	IS 3845 : 1965	Code of practice for joints used in wooden furniture.
IS 851 : 1978	Synthetic resin adhesives for construction work (non-structural) in wood (<i>first revision</i>).	IS 4835 : 1979	Polyvinyl acetate dispersion-based adhesives for wood (<i>first revision</i>).
IS 852 : 1969	Animal glue for general wood working purposes (<i>first revision</i>).	IS 5807	Method of test for clear finishes for wooden furniture.
IS 1141 : 1973	Code of practice for seasoning of timber (<i>first revision</i>).	Part 1 : 1975	Resistance to dry heat (<i>first revision</i>).
IS 1365 : 1978	Slotted countersunk head screws (dia range 1.6 to 20 mm) (<i>third revision</i>).	Part 2 : 1975	Resistance to wet heat (<i>first revision</i>).
IS 1659 : 1979	Block boards (<i>second revision</i>).	Part 3 : 1971	Resistance to marking by oils and fats.
IS 2046 : 1969	Decorative thermosetting synthetic resin bonded laminated sheets (<i>first revision</i>).	Part 4 : 1975	Resistance to marking by liquids.
		IS 6760 : 1972	Slotted countersunk wood screws.

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