



भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI 110002

व्यापक परिचालन मसौदा

हमारा संदर्भ: सीईडी 20/टी-11

27/01/2025

तकनीकी समिति : लकड़ी और अन्य लिग्नोसेल्युलॉसिक उत्पाद अनुभागीय समिति , सीईडी 20

प्राप्तकर्ता :

- सिविल इंजीनियरी विभाग परिषद्, सीईडीसी के सभी सदस्य
- लकड़ी और अन्य लिग्नोसेल्युलॉसिक उत्पाद अनुभागीय समिति , सीईडी 20 के सभी सदस्य
- रूचि रखने वाले अन्य निकाय

महोदय/महोदया,

निम्नलिखित मानक का मसौदा संलग्न है:

प्रलेख संख्या	शीर्षक
सीईडी 20(27134)WC	ब्लॉकबोर्ड - विशिष्टि (चौथा पुनरीक्षण) (IS 1659:2004 का तीसरा संशोधन का मसौदा) (ICS 79.060.01)

कृपया इस मानक के मसौदा संशोधन का अवलोकन करें और अपनी सम्मतियों यह बताते हुए भेजे कि यदि यह मानक के तीसरा संशोधन के रूप में प्रकाशित हो तो इस पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती हैं ।

सम्मतियों भेजने की अंतिम तिथि : **27 फ़रवरी 2025**

सम्मति यदि कोई हो तो कृपया अधोहस्ताक्षरी को ई-मेल द्वारा pradeepshekhawat@bis.gov.in पर या उपरलिखित पते पर, संलग्न फ़ॉर्मेट में भेजें। सम्मतियाँ बीआईएस ई-गवर्नेंस पोर्टल, www.manakonline.in के माध्यम से ऑनलाइन भी भेजी जा सकती हैं।

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा सम्बन्धी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दिया जाएगा। यदि सम्मित तकनीकी प्रकृति की हुई विषय समिति के अध्यक्ष के परामर्श से अथवा उनकी इच्छा पर आगे की कार्यवाही के लिए विषय समिति को भेजे जाने के बाद प्रलेख को अंतिम रूप दे दिया जाएगा ।

यह प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध हैं।

धन्यवाद ।

भवदीय,

(द्वैपायन भद्रा.)
प्रमुख (सिविल इंजीनियरी)

संलग्नक : उपरलिखित

**भारतीय मानक ब्यूरो**
BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI 110002

DRAFT IN WIDE CIRCULATION

Our Ref: CED 20/T- 11

27/01/2025

**TECHNICAL COMMITTEE: WOOD AND OTHER LIGNOCELLULOSIC PRODUCTS
SECTIONAL COMMITTEE, CED 20****ADDRESSED TO:**

- All Members of Civil Engineering Division Council, CEDC
- All Members of Wood And Other Lignocellulosic Products Sectional Committee, CED 20 and its Subcommittees
- All others Interests

Dear Sir(s),

Please find enclosed the following document:

Doc No.	Title
CED 20(27134) WC	IS 1659: 2004 — Block Boards –Specification (Fourth Revision) (Draft Third Amendment of IS 1659:2004) (ICS 79.060.01)

Kindly examine the draft amendment to the Indian standard and forward your views stating any difficulties which you are likely to experience in your business or profession, if this is finally adopted as Third Amendment to the Indian Standard.

Last Date for comments: **27 February 2025**

Comments if any, may please be made in the enclosed format and emailed at pradeepshekhawat@bis.gov.in or sent at the above address. Additionally, comments may be sent online through the BIS e-governance portal, www.manakonline.in.

In case no comments are received or comments received are of editorial nature, you will kindly permit us to presume your approval for the above document as finalized. However, in case of comments of technical in nature are received then it may be finalized either in consultation with the Chairman, Sectional Committee or referred to the Sectional Committee for further necessary action if so desired by the Chairman, Sectional Committee.

The document is also hosted on BIS website www.bis.gov.in.

Thanking you,

Yours faithfully,

(Dwaipayan Bhadra)**Head (Civil Engg.)**

Encl: as above

FORMAT FOR SENDING COMMENTS ON THE DOCUMENT

[Please use A4 size sheet of paper only and type within fields indicated. Comments on each clause/sub-clause/ table/figure, etc, be stated on a fresh row. Information/comments should include reasons for comments, technical references and suggestions for modified wordings of the clause. Comments through e-mail to pradeepshekhawat@bis.gov.in shall be appreciated.]

Doc. No.: CED 20(27134)WC

BIS Letter Ref: CED 20/T-11

Title: Block Boards –Specification (*Fourth Revision*) (Draft Third Amendment of IS 1659:2004) (ICS 79.060.01)

Last date of comments: 27 February 2025

Name of the Commentator/ Organization: _____

SI No.	Clause/ Para/ Table/ Figure No. commented	Type of Comment (General/ Technical/ Editorial)	Comments/ Modified Wordings	Justification of Proposed Change

NOTE- Kindly insert more rows as necessary for each clause/table, etc

DRAFT FOR COMMENTS ONLY

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Wood and Other Lignocellulosic Products
Sectional Committee, CED 20

Last Date of comments
27 February 2025

DRAFT AMENDMENT NO. 3
TO
IS 1659: 2004 – BLOCK BOARDS – SPECIFICATION
(Fourth Revision)

(Page 1, clause 4.3) – Insert the following new clause 4.4 after 4.3:

‘4.4 In terms of bending class, each grade and type of block board shall be further classified in bending classes as follows:

- a) Bending Class F30; and
- b) Bending Class F50.’

(Page 1, clause 4.4) – Insert the following new clause 4.5 after 4.4:

‘4.5 In terms of formaldehyde class, each grade and type of block board shall be further classified in bending classes as follows:

- a) Formaldehyde Class E_1 ; and
- b) Formaldehyde Class E_2 .’

(Page 3, clause 9.2.4, (see also Amendment No. 1)] – Substitute the following for the existing clause:

‘9.2.4 *Mycological Test.*

Block board specimens, when tested according to Annex J shall show no visible signs of separation at the edges.’

(Page 3, clause 9.2.5) – Substitute the following for the existing clause:

‘9.2.5 *Modulus of Rupture and Modulus of Elasticity.*

The modulus of rupture and modulus of elasticity when tested according to the method given in Annex K, block boards shall have average values as given in Table 1. Also, no individual value shall be less than 10 percent of the specified value of the respective bending class.

Table 1 Average Values of Modulus of Elasticity (MoE) and Modulus of Rupture (MoR)
(Clause 9.2.5)

Sl. No.	Properties	Bending Class (F)	Requirements
(1)	(3)	(2)	(4)
i)	Modulus of Elasticity (MoE), N/mm ² , Avg., Min.	Bending Class, F30	3000
ii)	Along (direction parallel to the grain direction of the top veneer) and Across (direction perpendicular to the grain direction of the top veneer)	Bending Class, F50	5000
iii)	Modulus of Rupture (MoR), N/mm ² , Avg., Min.	Bending Class, F30	30
iv)	Along (direction parallel to the grain direction of the top veneer) and Across (direction perpendicular to the grain direction of the top veneer)	Bending Class, F50	50

[Page 3, clause 9.2.6, (see also Amendment No. 1 and 2)] – Insert the following new clause 9.2.7 after 9.2.6:

‘9.2.7 Formaldehyde Content Test

Test of free formaldehyde content in the sample shall be done by perforator method as per IS 13745 and test results of drawn sample shall meet the requirements of formaldehyde content as follows:

- a) Formaldehyde Class, $E_1 < 8$ mg/ 100 g of oven dry sample; and
- b) Formaldehyde Class, $E_2 > 8$ mg/100 g of oven dry sample and < 30 mg/100 g of oven dry sample.’

(Page 3, clause 9.2.7) – Insert the following new clause 9.2.7 after 9.2.6:

‘9.2.7 Steady-State Formaldehyde Emission Test (Optional Test).

Manufacturer will offer a stack of block boards made under a batch (not less than 50 pieces) bearing the batch number and date of manufacture along with details of block board, that is, grade, size and thickness, adhesive used and any other (the manufacture wish to inform). After sampling, the sample shall immediately cover in airtight polythene with date of sampling on the block board.

Sample must be taken for test within 24 h of opening the airtight cover and within one month from the date of sampling, and test shall be done by the test method as given in IS/ISO 12460

(Part 1). The test results of drawn sample shall meet the requirements of formaldehyde emission value as follows:

- a) Formaldehyde Class, $E_1 < 0.124 \text{ mg/m}^3$; and
- b) Formaldehyde Class, $E_2 > 0.124 \text{ mg/m}^3$.’

(Page 3, clause 11) – Renumber the existing clause ‘11.1’ as ‘11.2’ and ‘11.1.1’ as ‘11.2.1’.

(Page 3, clause 11) – Insert new clause 11.1 under Marking clause and substitute the following for the existing 11.1 clause:

‘11.1 Each block board shall be legibly and indelibly marked or stamped with the following:

- a) Manufacturer’s name and his initials or his recognized trade-mark, if any;
- b) In words ‘BLOCK BOARD;
- c) The grade and type (see 4.3);
- d) Bending class (see 4.4);
- e) Formaldehyde class (see 4.5);
- f) Nominal length, width and thickness of block board;
- g) Month and year of manufacture;
- h) Batch No.; and
- j) Criteria for which the plywood has been labelled as ECO-Mark (if applicable).’

(CED 20)
