



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BHADUR SHAH ZAFAR MARG, NEW DELHI 110002

व्यापक परिचालन मसौदा

हमारा संदर्भ: सीईडी 20/टी-38

30/07/2024

तकनीकी समिति : लकड़ी और अन्य लिग्नोसेल्यूलोसिक उत्पाद विषय समिति, सीईडी 20

प्राप्तकर्ता :

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

महोदय/महोदया,

निम्नलिखित मानक का मसौदा संलग्न है:

प्रलेख संख्या	शीर्षक
सीईडी 20 (26258) WC	परफोरेटेड पद्धति नामक निष्कर्षण पद्धति द्वारा लकड़ी-आधारित पैनल में फॉर्मलडिहाइड का अंश ज्ञात करना (पहला पुनरीक्षण) (IS 13745:2020 का पहला संशोधन) (ICS 79.060)

कृपया इस मानक के मसौदे का अवलोकन करें और अपनी सम्मतियों यह बताते हुए भेजे कि यदि यह मानक 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 : **28 सितम्बर 2024**

सम्मति यदि कोई हो तो कृपया अधोहस्ताक्षरी को उपरिलिखित पते पर संलग्न फॉर्मेट में भेजें या ced20@bis.gov.in पर ईमेल कर दें।

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 : उपरिलिखित



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BHADUR SHAH ZAFAR MARG, NEW DELHI 110002

DRAFT IN WIDE CIRCULATION

Our Ref: CED 20/T- 38

30/07/2024

**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
- All others Interests

Dear Sir(s),

Please find enclosed the following document:

Doc No.	Title
CED 20(26258) WC	Method for Determination of Formaldehyde Content in Wood-Based Panels by Extraction Method Called Perforator Method (<i>First Revision</i>) (First Amendment of IS 13495:2020) (ICS 79.060)

Kindly examine the draft 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 National Standard.

Last Date for comments: **28 September 2024**

Comments if any, may please be made in the enclosed format and mailed to the undersigned at the above address or preferably through e-mail to ced20@bis.gov.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 ced20@bis.gov.in shall be appreciated.]

Doc. No.: CED 20(26258)WC

BIS Letter Ref: CED 20/T-38

Title: Method For Determination of Formaldehyde Content In wood-Based Panels By Extraction Method Called Perforator Method (*First Revision*)
(First Amendment of IS 13495:2020)
(ICS 79.060)

Last date of comments: 28 September 2024

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:
28 September 2024

DRAFT AMENDMENT NO. 1

To

**IS 13745: 2020 METHOD FOR DETERMINATION OF FORMALDEHYDE
CONTENT IN WOOD-BASED PANELS BY EXTRACTION METHOD CALLED
PERFORATOR METHOD**

(First Revision)

(Page 3, clause 5.1, first sentence, line 3) – Substitute ‘an either end’ for ‘a front side’.

(Page 3, clause 5.1, line 3) – Substitute ‘12’ for ‘18’.

(Page 3, clause 5.2, first sentence) – Insert ‘after cooling’ at the end of the sentence.

(Page 3, clause 5.2, line 6) – Substitute ‘72 h’ for ‘24 h’.

(Page 3, clause 5.3, first sentence) – Substitute ‘already installed or form site/market’ for ‘already installed’.

(Page 3, clause 5.3, last sentence) – Substitute the following for the existing:

‘Unless otherwise agreed, the test piece shall be conditioned to a constant mass at a temperature of 27 ± 2 °C and a relative humidity of 65 ± 5 percent. Constant mass is considered to have been reached when the results of two successive weighing carried out at intervals of not less than 24 h do not differ by more than 0.1 percent of the mass of the test pieces.’

(Page 4, clause 6.4) – Insert the following Note at the end of the sentence:

‘NOTE – The quality of toluene is checked by this test. If the blank value of formaldehyde is higher than 1 mg/600 ml of toluene, the toluene shall be rejected.’

(Page 4, clause 8.1, line 2) – Substitute ‘6.3’ for ‘7.3’.

(Page 5, clause 8.2.2, last paragraph, second sentence) – Insert the following new sentence at the end:

‘A blank test with 20 ml distilled water is carried out in parallel.’

(Page 5, clause 8.2.3, line 6) – Substitute ‘15 µg’ for ‘15 mg’.

(Page 5, clause 8.2.5, formula for formaldehyde content) – Substitute the following for the existing:

$$\text{‘Perforator value} = \frac{(A_s - A_b) \times f \times (100 + H) \times V}{m_H} \text{ mg/100 g}$$

Where

A_s - Absorbance of the analysed extraction solution;

A_b - Absorbance of an analysis with distilled or demineralized water;

f - Slope of the standard curve, in milligrams per millilitre (mg/ml);

H - Moisture content of the wood-based panel as mass fraction, in percent;

m_H - Mass of test pieces, in grams (g);

V - Volume of the volumetric flask (2 000 ml).’

[Page 5, FIG. 2, a) and b)] – Substitute the following for the existing:

‘Key

X – Absorbance ($A_s - A_b$)

Y – Concentration of the diluted calibration solution ‘ c ’ 10^{-3} mg/ml.’

[Page 6, clause 9, b)] – Substitute ‘location (factory, installed at sites, market etc.)’ for ‘location’.

[Page 6, clause 9, e)] – Substitute ‘Density’ for ‘Bulk density’.