

**भारतीय मानक मसौदा**  
**कागज़ और संबद्ध उत्पादों के लिए नमूना चयन और परीक्षण**  
**पद्धतियाँ**

भाग 7 — बोर्ड के लिए परीक्षण पद्धतियाँ  
अनुभाग 1 — बोर्ड की फटने की शक्ति का निर्धारण  
( पहला पुनरीक्षण )

***Draft Indian Standard***

**Methods of Sampling and Test for Paper and Allied**  
**Products**

Part 7 — Methods of Test for Board  
Section 1 — Determination of Bursting Strength of Board  
( *First Revision* )

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ICS 85.060

Paper and its Products Sectional Committee,  
CHD 15

Last date of comments: 05<sup>th</sup> August 2024

**NATIONAL FOREWORD**

*(formal clauses added to be later)*

The bursting strength is a measure of the resistance of a material to rupture when pressure is applied to its surface. The bursting strength reflects the bond strength of paper and board.

This standard is applicable to boards with bursting strengths between 350 kPa (or 250 kPa for the components of combined materials) and 5 500 kPa. For all components of solid and corrugated fibreboard, irrespective of bursting strength, this method should be referred for testing.

For materials with bursting strengths less than 1400 kPa, an alternative method based on similar principles has been published as IS 1060 (Part 6/ Sec 2).

ISO has published test method standards related to paper, pulp and board under three broad categories namely 'Paper, board and pulps', 'Paper and board' and 'Pulps'. Related Indian Standards published in IS 1060 (Parts 1, 2 and 3) 'Methods of sampling and test for paper and allied products' and IS 6213 series of standards published for 'Methods of test for pulps' are widely recognized and used in India. To maintain consistency with the prevailing international practices and to retain the existing test methods series, the committee responsible for formulating this standard decided to harmonize the methods of tests prescribed in IS 1060 series and IS 6213 series with those published by ISO and publish these adopted test methods standards in subsequent parts/ sections of IS 1060 series or IS 6213 series.

Related Indian Standards on methods of test have been published in the following other parts of IS 1060 series on 'Methods of sampling and test for paper and allied products':

Part 4 Methods of test for paper, board and pulp

Part 5 Methods of test for paper and board

Part 6 Methods of test for paper

Part 7 Methods of test for board

This Section of IS 1060 (Part 7) specifies a method for measuring the bursting strength of board submitted to increasing hydraulic pressure having bursting strengths within the range 350 kPa to 5 500 kPa.

This standard was first published in 2014 by identical adoption of ISO 2759 : 2001 'Board — Determination of bursting strength' under dual numbering. As the relevant ISO standard has been revised in 2014, the committee decided to revise this standard by aligning it with ISO 2759 : 2014 'Board — Determination of bursting strength' under dual numbering. This revision has taken to include precision data.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'; and

- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 186 Paper and board — Sampling to determine average quality	IS 1060 (Part 5/Sec 1) : 2014/ISO 186 : 2002 Methods of sampling and test for paper and allied products: Part 5 Methods of test for paper and board, Section 1 Sampling to determine average quality.	Identical with ISO 186 : 2002
ISO 187 Paper, board and pulps — Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples	CHD 15 (22887) WC/ISO 187 : 2022 Methods of sampling and test for paper and allied products: Part 4 Methods of test for paper, board and pulp: Section 1 Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples. ( <i>Under development</i> )	Identical with ISO 187 : 2022
ISO 536 Paper and board — Determination of grammage	IS 1060 (Part 5/Sec 5) : 2021/ISO 536 : 2019 Methods of sampling and test for paper and allied products: Part 5 Methods of test for paper and board, Section 5 Determination of grammage ( <i>first revision</i> )	Identical with ISO 536 : 2019

In this adopted standard, reference appears to certain International Standards where the standard atmospheric conditions to be observed are stipulated which are not applicable to tropical/subtropical countries. The applicable standard atmospheric conditions for Indian conditions are  $(27 \pm 2)$  °C and  $(65 \pm 5)$  percent relative humidity and shall be observed while using this standard.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'.

**'FOR COMPLETE TEXT OF THE DOCUMENT, KINDLY REFER ISO 2759 : 2014**

**Note:** The technical content of the document has not been enclosed as these are identical with the corresponding ISO Standard. For obtaining the copy of the complete ISO Standard,

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