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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDRADS

भारतीय मानक मसौदा

भूकृत्रिम — गतिशील वेध परीक्षण (शंकु पाती परीक्षण)

Draft Indian Standard

GEOSYNTHETICS — DYNAMIC PERFORATION TEST (CONE DROP TEST)

ICS 59.080.70

Last date for receipt of comment is **30 May 2024**

NATIONAL FOREWORD

(*Formal clauses will be added later*)

This Indian Standard intended to be adopted is identical with ISO 13433 : 2006 'Geosynthetics Dynamic perforation test (cone drop test)' issued by the International Organization for Standardization (ISO).

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'.
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 the standard intended to be adopted, 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:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 554, Standard atmospheres for conditioning and/or testing — Specifications	IS 6359 : 2023 Method for conditioning of textiles (*first revision*)	Identical
ISO 9862, Geosynthetics — Sampling and preparation of test specimens	IS 14706 : 1999 Geotextiles — Sampling and preparation of test specimens	Identical
ISO 10320, Geosynthetics — Identification on site	IS 17421 : 2020 Geosynthetics – Identification on site	Identical

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 (*first revision*)'.

Extract of ISO 13433-4:2006 'Geosynthetics — Dynamic perforation test (Cone drop test)

Foreword

ISO 13433 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 189, Geosynthetics in collaboration with Technical Committee ISO/TC 221, Geosynthetics, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

1 Scope

This International Standard specifies a method to determine the resistance of geosynthetics to penetration by a steel cone dropped from a fixed height.

The degree of penetration is an indication of the behaviour of the geosynthetic when sharp stones are dropped on its surface.

The method is generally applicable to geosynthetics. However, the validity of this test for some types of products should be considered carefully, as the test principle may not be applicable.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the cited edition applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 554, Standard atmospheres for conditioning and/or testing — Specifications

ISO 9862, Geosynthetics — Sampling and preparation of test specimens

ISO 10320, Geosynthetics — Identification on site

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 Hole size

diameter of the hole made by the cone in penetrating the specimen
Note 1 to entry: The hole size is measured in millimetres.

FORMAT FOR SENDING COMMENTS ON BIS DOCUMENTS

(Please use A4 size sheet of paper only and type within fields indicated. Comments on each clause/sub clause/table/fig etc. be started on a fresh box. Information in column 3 should include reasons for the comments and suggestions for modified working of the clauses when the existing text is found not acceptable. Adherence to this format facilitates Secretariat's work)

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Item, Clause Sub-Clause No. Commented upon (Use Separate Box afresh)	Comments	Specific Proposal (Draft clause to be add/amended)	Remarks	Technical References and justification on which (2), (3), (4) are based
(1)	(2)	(3)	(4)	(5)