

STN	Geosyntetika Zisťovanie ochranného účinku geosyntetiky proti poškodeniu nárazom (ISO 13428: 2024)	STN EN ISO 13428 80 6189
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Geosynthetics - Determination of the protection efficiency of a geosynthetic against impact damage (ISO 13428:2024)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/25

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EN ISO 13428

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October 2024

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Supersedes EN ISO 13428:2005

English Version

Geosynthetics - Determination of the protection efficiency of a geosynthetic against impact damage (ISO 13428:2024)

Géosynthétiques - Détermination de l'efficacité de
protection d'un géosynthétique contre l'effet d'un
impact (ISO 13428:2024)

Geokunststoffe - Bestimmung der Schutzwirksamkeit
eines Geokunststoffes bei Stoßbelastung (ISO
13428:2024)

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EN ISO 13428:2024 (E)

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European foreword

This document (EN ISO 13428:2024) has been prepared by Technical Committee ISO/TC 221 "Geosynthetics" in collaboration with Technical Committee CEN/TC 189 "Geosynthetics" the secretariat of which is held by NBN.

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Endorsement notice

The text of ISO 13428:2024 has been approved by CEN as EN ISO 13428:2024 without any modification.



International Standard

ISO 13428

Geosynthetics — Determination of the protection efficiency of a geosynthetic against impact damage

*Géosynthétiques — Détermination de l'efficacité de protection
d'un géosynthétique contre l'effet d'un impact*

**Second edition
2024-10**

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ISO 13428:2024(en)**Foreword**

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

This second edition cancels and replaces the first edition (ISO 13428:2005), which has been technically revised.

The main changes are as follows:

- the normative references have been updated;
- [Figure 1](#) has been corrected;
- the thickness of lead plate has been modified to 2,0 mm.

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.

Geosynthetics — Determination of the protection efficiency of a geosynthetic against impact damage

1 Scope

This document describes an index test for the determination of the protection efficiency of a geosynthetic on a hard surface, exposed to the impact load of a hemispherical object.

The index test measures the change in thickness of a thin lead plate lying between the geosynthetic and a rigid support.

It is also used as a performance test, by using the real rigid surface to protect and the real sequence of geosynthetics.

The test is applicable to all geosynthetics with apertures smaller than 15 mm (maximum size).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited 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 9863-1, *Geosynthetics — Determination of thickness at specified pressures — Part 1: Single layers*

ISO 9864, *Geosynthetics — Test method for the determination of mass per unit area of geotextiles and geotextile-related products*

ISO 10318-1, *Geosynthetics — Part 1: Terms and definitions*

EN 12588, *Lead and lead alloys — Rolled lead sheet for building purposes*

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