

STN P	Geosyntetika Skúška simulácie erózie vyvolanej zrážkovou činnosťou na povrchu svahu chráneného geosyntetickými výrobkami na kontrolu erózie	STN P CEN/TS 17445 80 6185
------------------	--	---

Geosynthetics - Standard test for the simulation of rainfall-induced erosion on the surface of a slope protected by geosynthetic erosion control products

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. 05/21

Táto predbežná STN je určená na overenie. Priponienky zasielajte ÚNMS SR najneskôr do februára 2023.

Obsahuje: CEN/TS 17445:2021

132794

TECHNICAL SPECIFICATION

CEN/TS 17445

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

March 2021

ICS 59.080.70

English Version

Geosynthetics - Standard test for the simulation of rainfall-induced erosion on the surface of a slope protected by geosynthetic erosion control products

Géosynthétiques - Essai normalisé de simulation de l'érosion induite par la pluie à la surface d'une pente protégée par des produits géosynthétiques de lutte contre l'érosion

Geokunststoffe - Prüfverfahren zur Simulation von durch Niederschlag hervorgerufener Erosion an geosynthetischen Erosionsschutzprodukten

This Technical Specification (CEN/TS) was approved by CEN on 11 January 2021 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

	Page
European foreword	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions.....	5
4 Principle	7
5 Apparatus	7
5.1 Slope simulator.....	7
5.2 Runoff and Sediment Collection System.....	8
5.3 Rainfall simulator	8
5.3.1 General.....	8
5.3.2 Water source	8
5.4 Disdrometer.....	9
6 Soil	9
7 Specimens.....	9
8 Conditioning	10
9 Calibration.....	10
9.1 Setting the rainfall intensity gauges.....	10
9.1.1 General.....	10
9.2 Rainfall intensity calibration.....	10
9.3 Disdrometer preparation	10
9.4 Rainfall calibration.....	11
9.5 Recording of data.....	11
9.6 Calculation and expression of results	11
9.7 Calculate the theoretical values.....	12
9.7.1 Calculate the theoretical value.....	12
9.7.2 Calculate the theoretical Kinetic Energy	12
9.7.3 Calculate the terminal velocity v_t.....	12
9.8 Calibration check	12
9.8.1 The apparatus shall be considered as satisfactorily calibrated if.....	12
9.8.2 The apparatus is considered satisfactorily calibrated.....	12
9.8.3 The apparatus is not considered satisfactorily calibrated	12
9.9 Calibration Frequency.....	13
10 Procedure	13
10.1 Slope simulator preparation	13
10.2 Rainfall simulator preparation.....	14
10.3 Test Operation and Data Collection	14
11 Test report.....	15
11.1 Pre-Test Documentation	15
11.2 The test report shall include the following information	15
Annex A (informative) Typical apparatus.....	25
Annex B (informative) Modifications to the standard procedure	28

Annex C (informative) Calculation and expression of results	29
Annex D (informative) Evaluation of the C Factor of RUSLE (Revised Universal Soil Loss Equation)	31
Bibliography	35

CEN/TS 17445:2021 (E)**European foreword**

This document (CEN/TS 17445:2021) has been prepared by Technical Committee CEN/TC 189 "Geosynthetics", the secretariat of which is held by NBN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies an index test method for the simulation of rainfall-induced erosion on the surface of a slope protected by geosynthetic erosion control products.

The test is normally carried out on specimens conditioned under a specified atmosphere.

The test is applicable to most geosynthetics, but is especially suited to geosynthetic erosion control products.

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.

EN 13286-2, *Unbound and hydraulically bound mixtures - Part 2: Test methods for laboratory reference density and water content - Proctor compaction*

EN ISO 9862, *Geosynthetics - Sampling and preparation of test specimens (ISO 9862)*

EN ISO 10318-1, *Geosynthetics - Part 1: Terms and definitions (ISO 10318-1)*

EN ISO 11074, *Soil quality - Vocabulary (ISO 11074)*

EN ISO 14688-1, *Geotechnical investigation and testing - Identification and classification of soil - Part 1: Identification and description (ISO 14688-1)*

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

koniec náhľadu – text d'alej pokračuje v platenej verzii STN