



SLOVENSKI STANDARD
SIST EN 13967:2012/kFprA1:2016
01-november-2016

**Hidroizolacijski trakovi - Polimerni in elastomerni tesnilni trakovi za temelje -
Definicije in lastnosti**

Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet - Definitions and characteristics

Abdichtungsbahnen - Kunststoff- und Elastomerbahnen für die Bauwerksabdichtung gegen Bodenfeuchte und Wasser - Definitionen und Eigenschaften

Feuilles souples d'étanchéité - Feuilles plastiques et élastomères empêchant les remontées capillaires du sol - Définitions et caractéristiques

Ta slovenski standard je istoveten z: EN 13967:2012/FprA1:2016

ICS:

01.040.91	Gradbeni materiali in gradnja (Slovarji)	Construction materials and building (Vocabularies)
91.100.50	Veziva. Tesnilni materiali	Binders. Sealing materials

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

FINAL DRAFT
EN 13967:2012

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ICS 01.040.91; 91.100.50

English Version

**Flexible sheets for waterproofing - Plastic and rubber
damp proof sheets including plastic and rubber basement
tanking sheet - Definitions and characteristics**

Feuilles souples d'étanchéité - Feuilles plastiques et
élastomères empêchant les remontées capillaires du
sol - Définitions et caractéristiques

Abdichtungsbahnen - Kunststoff- und
Elastomerbahnen für die Bauwerksabdichtung gegen
Bodenfeuchte und Wasser - Definitionen und
Eigenschaften

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 254.

This draft amendment A1, if approved, will modify the European Standard EN 13967:2012. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 13967:2012/FprA1:2016 (E)**European foreword**

This document (EN 13967:2012/FprA1:2016) has been prepared by Technical Committee CEN/TC 254 “Flexible sheets for waterproofing”, the secretariat of which is held by NEN.

This document is currently submitted to the Unique Acceptance Procedure.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Regulation.

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

1 Modifications to Clause 2, Normative references

Replace:

"EN 12311-2 *Flexible sheets for waterproofing - Determination of tensile properties - Part 2: Plastic and rubber sheets for roof waterproofing*"

with:

"EN 12311-2:2013 *Flexible sheets for waterproofing - Determination of tensile properties - Part 2: Plastic and rubber sheets for roof waterproofing*"

Replace "EN 12730:2001" with "EN 12730:2015".

Replace "EN 13859-1:2010" with "EN 13859-1:2014".

Add:

"CEN/TR 16625:2013 *Flexible sheets for waterproofing - Statistical definition of manufacturer's limiting value and declared value (MLV and MDV) - 95 % Statistic*"

2 Modifications to Clause 3, Terms and definitions

In definition 3.4, manufacturer's limiting value, replace:

"value stated by the manufacturer to be met during testing

Note 1 to entry: The manufacturer's limiting value can be a minimum value or a maximum value, according to statements made under product characteristics of this standard."

with:

"nominal value including a single sided specification according to the product standard for a given test method or property

Note 1 to entry: The MLV can be a minimum or a maximum value according to statements made under product characteristics of the relevant product standard.

[CEN/TR 16625:2013, 2.2]"

In definition 3.5, manufacturer's declared value, replace:

"value declared by the manufacturer accompanied by a declared tolerance"

with:

"nominal value including double sided specification according to the product standard for a given test method or property

[CEN/TR 16625:2013, 2.1]"

Add the following new term:

"3.13

overpack

outer container or packaging designed to enclose on secure one or more inner containers or packagings"

3 Modification to 5.1 General

Add the following sub-clause:

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"5.1.3 Manufacturer's limiting value (MLV) and declared value (MDV) shall be defined in accordance with CEN/TR 16625."

4 Modification to 5.5, Thickness and mass per unit area

In the 1st sentence, replace:

"The thickness and mass per unit area shall be determined in accordance with EN 1849-2."

with:

"The thickness or mass per unit area shall be determined in accordance with EN 1849-2."

5 Modification to the heading of 5.8

Replace:

"5.8 Durability"

with:

"5.8 Durability of water tightness"

6 Modification to 5.10, Resistance to tearing (nail shank)

Replace the whole sub-clause with the following:

"Tear resistance (nail shank) shall be determined in accordance with EN 12310-1 and shall be greater or equal to the manufacturer limiting value."

7 Modification to 5.13, Resistance to static loading

Replace the whole sub-clause with the following:

"The resistance to static loading shall be determined in accordance with Method C of EN 12730:2015 and shall be greater than or equal to the manufacturer's limiting value.

If required the resistance to static loading shall be determined in accordance with Method A of EN 12730:2015 and shall be greater than or equal to the manufacturer's limiting value."

8 Modification to 5.14, Tensile properties

Replace the whole sub-clause with the following:

"Type T and A:

The tensile properties for unreinforced sheets as homogenous sheets and sheets with a non-woven inner layer (e.g. fibre glass mat) of less than or equal to 80 g/m² shall be determined in accordance with Method B of EN 12311-2:2013. For all other sheets Method A of EN 12311-2:2013 shall be used to determine tensile properties.

Type V:

The tensile properties of unreinforced sheets shall be determined in accordance with EN 12311-2:2013 Method B and shall be greater than or equal to the manufacturer's limiting value for the longitudinal and transverse directions of the sheet. The tensile properties of reinforced sheets shall be determined in accordance with EN 13859-1:2014, Annex A.

For all types T, A and V the tensile properties shall be greater than or equal to the manufacturer's limiting value for the longitudinal and transverse directions of the sheet."

9 Modification to 5.16, Reaction to fire

Add the following item e):

"e) Test results from EN ISO 11925-2 for a given product with edge exposure shall apply to surface exposure."

10 Modification to 5.17, Dangerous substances

Replace the whole sub-clause with the following:

"National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets. Verification and declaration on release/content should be done taking into account national provisions in the place of use.

NOTE 1 An informative database covering European and national provisions on dangerous substances is available at the Construction web site on EUROPA accessed through: <http://ec.europa.eu/enterprise/construction/cpd-ds/>

NOTE 2 Experience has shown that products which have the same polymeric base as the components of the leaching apparatus specified in CEN/TS 16637-2 leach less than the detection limit of this method."

11 Modification to Clause 6

Replace the whole clause with the following:

"6 Assessment and verification of constancy of performance - AVCP

6.1 General

The compliance of plastic and rubber damp proof sheets including plastic and rubber basement tanking sheets with the requirements of this standard and with the performances declared by the manufacturer in the DoP shall be demonstrated by:

- determination of the product type;
- factory production control by the manufacturer, including product assessment.

The manufacturer shall always retain the overall control and shall have the necessary means to take responsibility for the conformity of the product with its declared performance(s).

NOTE The assignment of tasks to the notified body(ies) and the manufacturer is shown in Annex ZA, Tables ZA.3.

6.2 Type testing

6.2.1 General

All performances related to characteristics included in this standard shall be determined when the manufacturer intends to declare the respective performances unless the standard gives provisions for declaring them without performing tests (e.g. use of previously existing data, CWFT and conventionally accepted performance).

The performance of the characteristics shall be tested at the beginning of the production of a new product type (unless a member of the same family) or at the beginning of a new method of production (where this may affect the stated properties).

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Whenever a change occurs in the product design, the raw material, supplier of the components or the production process (subject to the definition of a family) which would change significantly one or more of the characteristics, the type tests shall be repeated for the appropriate characteristic(s).

Assessment previously performed in accordance with the provisions of this standard, may be taken into account provided that they were made to the same or a more rigorous test method, under the same AVCP system on the same product or products of similar design, construction and functionality, such that the results are applicable to the product in question.

For the purposes of assessment, the manufacturer's products may be grouped into families, where it is considered that the results for one or more characteristics from any one product within the family are representative for these same characteristics for all products within that same family.

NOTE 1 Products may be grouped in different families for different characteristics.

NOTE 2 It is advised to make reference to the assessment method standards to allow the selection of a suitable representative sample.

In addition, the determination of the product type shall be performed for all characteristics included in the standard for which the manufacturer declares the performance in the DOP:

- at the beginning of the production of a new or modified plastic and rubber damp proof sheets including plastic and rubber basement tanking sheets (unless a member of the same product range), or
- at the beginning of a new or modified method of production (where this may affect the stated properties); or
- they shall be repeated for the appropriate characteristic(s), whenever a change occurs in the plastic and rubber damp proof sheets including plastic and rubber basement tanking sheets design, in the raw material or in the supplier of the components, or in the method of production (subject to the definition of a family), which would affect significantly one or more of the characteristics.

Where components are used whose characteristics have already been determined, by the component manufacturer, on the basis of assessment methods of other product standards, these characteristics need not be re-assessed. The specifications of these components shall be documented.

Products bearing regulatory marking in accordance with appropriate harmonized European specifications may be presumed to have the performances declared in the DoP, although this does not replace the responsibility on plastic and rubber damp proof sheets including plastic and rubber basement tanking sheets manufacturer to ensure that these sheets as a whole are correctly manufactured and their component products have the declared performance values.

6.2.2 Test samples, testing and compliance criteria

The number of samples of plastic and rubber damp proof sheets including plastic and rubber basement tanking sheets to be tested/assessed shall be in accordance with Table 1.

The tests shall be performed at least once for all characteristics in Table 1. Samples shall be taken in accordance to EN 13416, the number of specimen shall be in accordance to the specific test method.

The statistics of MLV and MDV are defined in CEN/TR 16625.

Table 1 — Compliance criteria

Characteristics (where required)	Product Type			Parameter	Test methods	Sub-clause in this document	Compliance criteria (where required)
	A	V	T				
Water tightness to liquid water	*	*	*	Watertight At 2 kPa At 60 kPa	EN 1928	5.6	Pass
Resistance to static loading	*	*	*	MLV	EN 12730	5.13	≥ MLV
Tensile properties	*	*	*	MLV	EN 12311-2	5.14	≥ MLV
Durability of water tightness against ageing	*	*	*	Watertight At 2 kPa At 60 kPa	EN 1296 Test afterwards to EN 1928	5.8.1	Pass
Durability of water tightness against chemicals	*	*	*	Watertight At 2 kPa At 60 kPa	EN 1847 Test afterwards to EN 1928	5.8.2	Pass
Resistance to impact	*	*	*	MLV	EN 12691	5.7	≥ MLV
Resistance to tear (Nail Shank)	*	*	*	MLV	EN 12310-1	5.10	≥ MLV
Reaction to fire	*	*	*	Euroclass	EN 13501-1 (see Note in 5.16)	5.16	Classification
Bitumen compatibility	*	*	*	Watertight At 2 kPa At 60 kPa	EN 1548 and EN 1928	5.9	Pass
Joint strength	*	*	*	MLV	EN 12317-2	5.11	≥ MLV
Water vapour transmission properties	*	*	*	MDV	EN 1931	5.12	Within declared tolerance of MDV
Resistance to deformation under load		*		MLV	Annex B	5.15	≤ MLV
Length	*	*	*	MDV	EN 1848-2	5.4	Within declared tolerance of MDV
Width	*	*	*	MDV	EN 1848-2	5.4	Within declared tolerance of MDV

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Characteristics (where required)	Product Type			Parameter	Test methods	Sub-clause in this document	Compliance criteria (where)
	*	*	*				
Thickness or Mass	*	*	*	MDV	EN 1849-2	5.5	Within declared tolerance of MDV
Straightness	*	*	*	Less than or equal to 75 mm/10 m	EN 1848-2	5.4	Pass
Dangerous substances	*	*	*	As relevant	As relevant	5.17	As relevant
Visible defects	*	*	*	Visible defects	EN 1850-2	5.3	No visible defects

6.2.3 Test reports

The results of the determination of the product type shall be documented in test reports. All test reports shall be retained by the manufacturer for at least 10 years after the last date of production of the plastic and rubber damp proof sheets including plastic and rubber basement tanking sheets to which they relate.

6.2.4 Shared other party results

NOTE The sharing of other party results is in principle applicable to all systems of assessment and evaluation of constancy of performance.

A manufacturer may use the results of the product type determination obtained by someone else (e.g. by another manufacturer, as a common service to manufacturers, or by a product developer), to justify his own declaration of performance regarding a product that is manufactured according to the same design (e.g. dimensions) and with raw materials, constituents and manufacturing methods of the same kind, provided that:

- the results are known to be valid for products with the same essential characteristics relevant for the product performance;
- in addition to any information essential for confirming that the product has such same performances related to specific essential characteristics, the other party who has carried out the determination of the product type concerned or has had it carried out, has expressly accepted to transmit to the manufacturer the results and the test report to be used for the latter's product type determination, as well as information regarding production facilities and the production control process that can be taken into account for FPC;
- the manufacturer using other party results accepts to remain responsible for the product having the declared performances and he also:
 - ensures that the product has the same characteristics relevant for performance as the one that has been subjected to the determination of the product type, and that there are no significant differences with regard to production facilities and the production control process compared to that used for the product that was subjected to the determination of the product type; and
 - keeps available a copy of the determination of the product type report that also contains the information needed for verifying that the product is manufactured according to the same design and with raw materials, constituents and manufacturing methods of the same kind.