



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-22/0560 of 26 April 2023

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Deutsches Institut für Bautechnik

SensFloor® Underlay

Underlays

Future-Shape GmbH Altlaufstraße 34 85635 Höhenkirchen-Siegertsbrunn DEUTSCHLAND

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of 6 pages which form an integral part of this assessment

EAD 190010-00-0502

Deutsches Institut für Bautechnik Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de



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Specific Part

1 Technical description of the product

This European Technical Assessment applies to the textile-based underlay "SensFloor® Underlay" with capacitive proximity sensors and electronic modules for the recognition of movement and gait data, hereinafter referred to as underlay.

The underlay is a multilayer composite material and consists of

- the back layer made of aluminium foil,
- the middle layer of polyester needle felt,
- a polyamide hotmelt adhesive film,
- the top layer of metallized polyester nonwoven strips for the power supply and as a sensor surface and
- the integrated radio modules (2 6 pieces per m²).



Figure 1: Schematic structure of "SensFloor® Underlay

The total thickness of the underlay is 2.8 mm (\pm 0,4 mm) and the total area weight is 700 g/m² (\pm 40 g/m²).

The underlay is fixed on mineral substrates with a double-sided adhesive foil (D-Tack Extralay). A primer is used for surface pretreatment (D-Tack Remove).

The European Technical Assessment has been issued for the products on the basis of agreed data and information, deposited with Deutsches Institut für Bautechnik. The European Technical Assessment applies only to products corresponding to this agreed data/information.

The evaluation of the functionality of the radio modules is not part of this European Technical Assessment.



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2 Specification of the intended use in accordance with the applicable European Assessment Document

The underlay is installable beneath any kind of flooring inside buildings. It is used to recognize movement and gait data, to improve impact sound and to provide acoustic decoupling.

The performance according to section 3 only applies if the underlays are installed according to the manufacture's installation instructions and if they are protected from precipitation, wetting or weathering in built-in state and during transport, storage and installation.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the underlay mats "SensFloor® Underlay" and of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	Class E*
testing in accordance with EN ISO 11925-2:2020	in accordance with EN 13501-1:2019
* bonded with D-Tack Remove and D-Tack Extralay on substrates of class A1 or A2 - s1,d0 according to EN 13501-1:2019 with a bulk density ≥ 1350 kg/m³ and a minimum thickness of 6 mm	



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3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance			
Content, emission and/or release of dangerous substances				
Substances, classified as Carc. 1A/1B ^{a)}				
Substances, classified as Muta. 1A/1B ^{a)}	None of these raw materials are actively used in the manufacture of			
Substances, classified as Acute Tox. 1, 2, 3; Repr. 1A/1B; STOT SE 1 and STOT RE 1 ^{a)}	the construction product. ^{b)c)}			
SVOC and VOC	The product "SensFloor® Underlay" was tested for the emission of dangerous substances (in accordance with EN 16516) using the loading factor L = $0.4 \text{ m}^2/\text{m}^3$ (for floorings) and was therefore assessed: ^{d)}			
		3 days	28 days	
	Carzinogens (Cat. 1A/1B)	< 0.01 mg/m ³	< 0.001 mg/m³	
	TVOCspez	< 10 mg/m³	< 1.0 mg/m³	
	TSVOC		< 0.1 mg/m³	
	TVOC without NIK (2021)		< 0.1 mg/m³	
	R-value		< 1	
Release scenario regarding BWR 3: IA2				

a) In accordance with Regulation (EC) No 1272/2008.

b) Active use is the targeted use of substances to achieve specific product properties. Substances that are present as impurities and/or as a secondary component in the product are therefore not to be regarded as "actively used".

c) Assessment based on the detailed manufacturers' statements on dangerous substances.

d) Statement according to test report.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 190010-00-0502 the applicable European legal act is: 2000/273/EC

The system to be applied is: 3

In addition, with regard to e.g. reaction to fire for products covered by this EAD the applicable European legal act is: 2000/273/EC

The system to be applied is: 3



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5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 26 April 2023 by Deutsches Institut für Bautechnik.

Dr. Astrid Gräff Head of Section beglaubigt: Tykiel