Deutsches Institut für Bautechnik

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Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments

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European Technical Assessment

ETA-23/0511 of 12 December 2023

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	URSA SECO SDV PLUS
Product family to which the construction product belongs	Humidity-dependent vapour control layer
Manufacturer	URSA Deutschland GmbH Carl-Friedrich-Benz-Straße 46-48 04509 Delitzsch DEUTSCHLAND
Manufacturing plant	Werk 1
This European Technical Assessment contains	6 pages including 1 annex which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	030271-00-0605

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Specific part

1 Technical description of the product

The humidity-dependent vapour control layer URSA SECO SDV PLUS is a polyamide-layer, laminated with a fleece of polypropylene.
The thickness of the humidity-dependent vapour control layer is 0.28 mm ± 0.04 mm and the mass per unit is 70 g/m² ± 8 g/m².

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

The performances given in Section 3 are only valid if the humidity-dependent vapour control layer URSA SECO SDV PLUS is used in compliance with the specifications and conditions given in Annex 1.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the humidity-dependent vapour control layer URSA SECO SDV PLUS of at least 50 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 in accordance with EN 13501-1[1]

3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to tearing (nail shank)	See Annex 1.2.1
Water vapour transmission properties	See Annex 1.2.2
Durability of water vapour transmission properties - artificial ageing by long-term exposure to elevated temperature	See Annex 1.2.2
Tensile properties	See Annex 1.2.3
Durability of tensile properties - artificial ageing by long-term exposure to elevated temperature and exposure to UV and heat	See Annex 1.2.3
Air permeability	No performance assessed
Water tightness	No performance assessed
Resistance to impact	No performance assessed
Durability - chemical resistance	No performance assessed

[1] EN 13501:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

Essential characteristic	Performance
Joint strength	No performance assessed
Dangerous substances	No performance assessed

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

In accordance with EAD No.030271-00-0605, the applicable European legal act is: [1999/90/EC(EU)] amended by Commission decision [2001/596/EC].

The system to be applied is: 3

For reaction to fire the system to be applied is: 3.

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 12 December 2023 by Deutsches Institut für Bautechnik

Anja Dewitt
Head of Section

beglaubigt:
Vössing

Annex 1.1 Specification of intended use

EN 1995-1-1[1] applies for the installation of the humidity-dependent vapour control layer URSA SECO SDV PLUS.

Annex 1.2 Specification of essential characteristics

A.1.2.1 Resistance to tearing (nail shank)

The resistance to tearing in longitudinal direction of the humidity-dependent vapour control layers of URSA SECO SDV PLUS in accordance with EN 12310-1[2] is: 65 N.

The resistance to tearing in transverse direction of the humidity-dependent vapour control layers of URSA SECO SDV PLUS in accordance with EN 12310-1 is: 65 N.

A.1.2.2 Durability of water vapour transmission properties – artificial ageing by long-term exposure to elevated temperature

The initial values of the sd-values for the humidity-dependent vapour control layer URSA SECO SDV PLUS tested in accordance with EN ISO 12572[3] meet the values in Table A.1.2.2.
The values after artificial ageing of the sd-values for the humidity-dependent vapour control layer URSA SECO SDV PLUS tested in accordance with EN 1296[4] meet the values in accordance with Table A.1.2.2.

Table A.1.2.2: s_d-values of URSA SECO SDV PLUS in [m]

Conditionings / Arithmetic average of dry point and wet point	23°C, 0/50% rel. hum. / 25 % rel. humidity [m]	23°C, 50/93% rel. hum. / 72 % rel. humidity [m]	23°C, 83/97% rel. hum. / 90 % rel. humidity [m]
Initial mean values	19,9	0,54	0,11
Mean values after artificial ageing (Storage at 80(±2) °C for 24 weeks)	22,5	0,88	0,32

[1] EN 1995-1-1: 2004+AC:2006+A1:2008+A2:2014 — Eurocode 5: Design of timber structures – Part 1-1: General - Common rules and rules for buildings

[2] DIN EN 12310-1:1999 — Flexible sheets for waterproofing – Part 1: Bitumen sheets for roof waterproofing; determination of resistance to tearing (nail shank)

[3] EN ISO 12572:2017 — Hygrothermal performance of building materials and products - Determination of water vapour transmission properties - Cup method

[4] EN 1296:2000 — Flexible sheets for waterproofing. Bitumen, plastic and rubber sheets for roofing. Method of artificial ageing by long term exposure to elevated temperature

A.1.2.3 Durability of tensile properties – artificial ageing by long-term exposure to elevated temperature and exposure to UV and heat

The initial values and the values after artificial ageing of the maximum tensile force and the maximum tensile force elongation for the humidity-dependent vapour control layer URSA SECO SDV PLUS determined in accordance with EN 13984[5] and EN 13859-1[6] correspond to the values in Table A.1.2.3 for both the longitudinal and transversal directions of the sheet. The specifications of the test standard with regard to the number and selection of test specimens have been fully complied with.

Table A.1.2.3: Values of tensile force and elongation at maximum force before and after exposure

URSA SECO SDV PLUS	longitudinal		transversal	
	strength F_H [N / 50 mm]	elongation ε_H [%]	strength F_H [N / 50 mm]	elongation ε_H [%]
Initial mean values	142	47	126	33
Mean values after artificial ageing (Heat resistance)	146	37	127	26
Mean values after artificial ageing (UV resistance)	73	24	65	18

[5] EN 13984:2013 Flexible sheets for waterproofing – Plastic and rubber vapour control layers – Definitions and characteristics
[6] EN 13859-1:2014 Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing