



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-18/0321 of 21 September 2018

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

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

Deutsches Institut für Bautechnik

Skytech Pro XL, Nest

Thermal insulation products for buildings with radiant heat reflective components

WINCO TECHNOLOGIES 5 Rue Sophie Germain 22440 PLOUFRAGAN FRANKREICH

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6 pages which form an integral part of this assessment

EAD 040007-00-1201



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Specific part

1 Technical description of the product

This European Technical Assessment applies to the thermal insulation products with radiant heat reflective components "Skytech Pro XL" and "Nest", hereafter referred to as thermal insulation mat.

The thermal insulation multi-layer composite mats are made of pure aluminium foils and glass fibres.

The thermal insulation mats are made with the following dimensions:

Nominal length: 18000 mm ("Skytech Pro XL")

25000 mm ("Nest")

Nominal width: 1120 mm ("Skytech Pro XL")

1000 mm ("Nest")

Nominal thickness: 13 mm ("Skytech Pro XL")

7 mm ("Nest")

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

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

The thermal insulation mats are used for the thermal insulation of walls, ceilings and roofs in buildings as follows.

- Skytech Pro XL: thermal insulation of walls and roofs
- Nest: internal thermal insulation of walls and ceilings

The performance according to section 3 only applies if the undamaged thermal insulation mat is installed according to the manufacture's installation instructions and if it is 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 thermal insulation mats 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.



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

For sampling, conditioning and testing the provisions of the EAD No 040007-00-1201 "Thermal insulation products for buildings with radiant heat reflective components" apply.

3.1 Mechanical resistance and stability (BWR 1)

Not applicable.

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	
test acc. to EN 13823:2010 + A1:2014	
NEST	Class A1
	acc. to EN 13501-1:2007 + A1:2009
SKYTECH PRO XL	Class A2-s1, d0 *
	acc. to EN 13501-1:2007 + A1:2009

^{*} The given classification is valid for the following conditions regarding the use oft he thermal insulation product: Mechanically fixed on wood cleats with an airgap ≥ 40 mm to substrates with density ≥ 600 kg/m³, A1 or A2-s1, d0 acc. to EN 13501-1. Overlaying of seals with double-face adhesive coated stripes.

3.3 Hygiene, health and the environment (BWR 3)

Not applicable.

3.4 Safety and accessibility (BWR 4)

Not applicable.

3.5 Protection against noise (BWR 5)

Not applicable.

3.6 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal core resistance	thermal core resistance value a)
test acc. to EN 16012:2012 + A1:2015	
NEST	$R_D = 0.25 \text{ m}^2 \text{ K/W }^*$
SKYTECH PRO XL	R _D = 0.45 m ² K/W *
Durability of thermal resistance against ageing/ degradation	No performance assessed.
Emissivity	emissivity value b)
test acc. to EN 16012:2012 + A1:2015	
NEST	$\varepsilon_{D,1} = 0.05$
	$\varepsilon_{D,2} = 0.05$
SKYTECH DDO VI	0.05
SKYTECH PRO XL	$\varepsilon_{D,1} = 0.05$
	$\epsilon_{D,2} = 0.07$
Water vapour diffusion resistance	
Trator rapour director resistance	



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Essential characteristic	Performance	
test acc. to EN ISO 12572:2001		
NEST	No performance assessed.	
SKYTECH PRO XL	S _d = 0.05 m	
Water absorption	No performance assessed.	
Watertightness		
test acc. to EN 13859-1:2014		
NEST	No performance assessed.	
SKYTECH PRO XL	Class W1 acc. to EN 13859-1:2014	
Geometry	No performance assessed.	
Apparent density/Mass per unit area	No performance assessed.	
Squareness	No performance assessed.	
Compressive stress or strength for products exposed to compression loads	No performance assessed.	
Dimensional stability	No performance assessed.	
Tensile strength parallel to faces	No performance assessed.	
Tensile strength perpendicular to faces	No performance assessed.	
Resistance to tearing (nail shank)	maximum tensile strength	
test acc. to EN 12310-1:1999		
NEST	No performance assessed.	
SKYTECH PRO XL	240 N	
Peel Strength or mechanical resistance of adhesive tape	No performance assessed.	
Compressive creep for products exposed to compression load	No performance assessed.	
Behaviour under point load for products exposed to compression load	No performance assessed.	
a) Declared value of core-thermal resistance, representative for at least 90 % of the production with a confidence		

a) Declared value of core-thermal resistance, representative for at least 90 % of the production with a confidence level of 90 %, based on the smallest thickness (nominal thickness or measured thickness).

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

b) Declared value of emissivity, representative for at least 90 % of the production with a confidence level of 90 %.

^{*} NOTE: The thermal resistance of the structural assembly (including possible adjacent airspaces) can be determined in accordance with EN ISO 6946 taking into account respective national regulations.





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

In accordance with the European Assessment Document No 040007-00-1201 "Thermal insulation products for buildings with radiant heat reflective components" the legal basis is:

Commission Decision 1999/91/EC

The system to be applied is: system 3

In addition, with regard to reaction to fire for products covered by this EAD the applicable European legal act is:

Commission Decision 2001/596/EC
The systems to be applied is: system 1

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.

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Prof. Gunter Hoppe beglaubigt:
Head of Department Getzlaff