

Meisterling® Thermo ND *Plus*
European Technical Assessment
ETA-20/0366 of 2020-04-01

Meisterling® GmbH
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European Technical Assessment ETA-20/0366 of 2020-04-01
I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

Meisterling® Thermo ND PLUS

Product family to which the above construction product belongs:

Membrane for use as roof underlay

Manufacturer:

Meisterling® GmbH
 Torgelower Straße 2
 DE-21493 Schwarzenbek
www.meisterling.de

Manufacturing plant:

Meisterling® GmbH
 Manufacturing Plant II

This European Technical Assessment contains:

5 pages

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

EAD 030218-00-0402 - Membrane for use as roof underlay

This version replaces:

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product

General

The membranes consist of multilayer flexible sheets. They are diffusion open membranes with increased UV resistance, perforation resistance, resistance to water pressure and tightness of perforations from nails and screws.

The membranes consist of a polyester and a multi-acrylate coating.

Designation Characteristics	Meisterling® Thermo ND PLUS
Composition	Unwoven polyester / Multi-acrylate coating
Total weight	220 g/m ²
Minimum slope	≥ 14°
Assembly method in overlaps	Gluing

The roof underlay membranes are fastened to the timber joists with nails or screws. No additional nail sealing material is necessary on a full-surface pressure-resistant substrate. In the case of non-full-surface, the nail and screw holes are waterproofed with nail sealing tape Meisterling® Butyl - Nageldicht - Band PLUS.

The roofing membrane is installed with specified Meisterling® accessories. Connection details are made with the adhesive tape Meisterling® Multi - Band / Universal - Band PLUS and the adhesive Meisterling® Kartuschenkleber PLUS.

2 Specification of the intended use in accordance with the applicable EAD

The membranes are intended for use as underlays, which are to be used under roof covering of roofs with roof pitch from 14° to 90°.

The membranes are intended to be used in high altitude and to be exposed to weathering (UV, rain) for a defined extended period of time up to 3 months.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the roof underlay of 10 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, 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

Characteristic	Assessment of characteristic
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3.2 Safety in case of fire (BWR2)

Reaction to fire

The membranes obtain the following classification in accordance with EN 13501-1 and Delegated Regulation 2016/364

Designation	Meisterling® Thermo ND PLUS
Class	E
End use condition	With any A1 or A2-s1,d0 class substrate with a density $\geq 652 \text{ kg/m}^3$, and metal and mineral substrates

3.3 Hygiene, health and the environment (BWR3)

Resistance to water penetration

W1 according to 13859-1

Water vapour transmission

$S_d = 0,139 \text{ m}$

Tensile properties

Designation	Meisterling® Thermo ND PLUS
Characteristics	
Tensile properties	
Longitudinal, initial	Mean value: $F_{max} = 450 \text{ N/50mm}$ Elongation: 25%
Longitudinal, aged	Mean value: $F_{max} > 90\%$ of unaged Elongation: $> 75\%$ of unaged
Transverse, initial	Mean value: $F_{max} = 290 \text{ N/50mm}$ Elongation: 60%
Transverse, aged	$F_{max} > 90\%$ of unaged Elongation: $> 75\%$ of unaged

Resistance to tearing

Designation	Meisterling® Thermo ND PLUS
Characteristics	
Resistance to tearing	
Longitudinal, initial	Mean value: $F_{max} = 110 \text{ N/200 mm}$
Longitudinal, aged	NPA
Transverse, initial	Mean value: $F_{max} = 130 \text{ N/200 mm}$
Transverse, aged	NPA

Resistance to perforation

No Performance Assessed



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Characteristic	Assessment of characteristic
Dimensional stability	< 1 % both longitudinal and transverse
Flexibility at low temperature	T _B ≤ -40 °C
Resistance to artificial ageing:	
UV resistance 5000h	Requirement fulfilled after 336 h and after 5000 h UV exposure
Exposure to heat	See above
Resistance to penetration of air	< 0,1 m ³ /(m ² × h × 50 Pa)
Water tightness of seams	Meisterling® Thermo ND PLUS with including Adhesive sealing tape adhesive tape Meisterling® Multi - Band / Universal - Band PLUS and the adhesive Meisterling® Kartuschenkleber PLUS The seams with 50 mm width are watertight at a water pressure of 2000 Pa (200 mm water column)
Emissivity	No Performance Assessed
Tightness of perforations from nails and screws	1. Meisterling® Thermo ND PLUS. No additional nail sealing material is necessary on a full-surface pressure-resistant substrate 2. Meisterling® Thermo ND PLUS with nail sealing tape Meisterling® Butyl - Nageldicht - Band PLUS in the case of non-full-surface.

Heavy rain of 2 l / m² × min up to a wind pressure of 600 Pa.

Aspects related to the performance of the product

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The performance of the membranes results from the characteristic values and categories.

The supplementing statements of the manufacturer stated in the MTD for design and application of the membrane for creating a roof underlay with the appropriate performance shall be considered

The performance of the membranes in use as roof underlay can be assumed only, if the following aspects are considered:

- only those ancillary components which are specified by the ETA can be used,
- the appropriate tools shall be used and adjuvant, precautions shall be taken,
- inspecting the substrate surface for appropriateness and correct treatment,
- inspection in the process of establishing the roof underlay and of the finished installation and documentation of the results.

The information as to the handling of waste products shall be observed.

It is the manufacturer's responsibility to make sure that all those who utilize the membrane will be appropriately informed about the specific conditions according to this ETA and the not confidential parts of the MTD deposited to this ETA.



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**4 Attestation and verification of constancy
of performance (AVCP)**

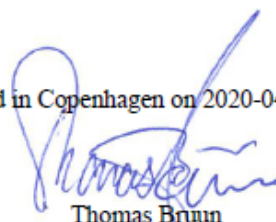
4.1 AVCP system

According to the Decision 99/90/EC and 2001/596/EC of the European Commission as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 3.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2020-04-01 by



Thomas Bruun
Managing Director, ETA-Danmark



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