Deutsches Institut für Bautechnik

Public-law institution jointly founded by the federal states and the Federation

European Technical Assessment Body for construction products

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European Technical Assessment ETA-20/0425 of 28 January 2025

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	"Rygol-Perimeterdämmplatte 035 3m", "Rygol-Perimeterdämmplatte 035 TWIN 3m", "Rygol-Perimeterdämmplatte 035 PERI-DRÄN 3m", "Rygol-Perimeter- und Sockeldämmplatte 035 3m" and "Rygol-Perimeter- und Sockeldämmplatte 035 TWIN 3m"
Product family to which the construction product belongs	Expanded polystyrene (EPS) foam boards as thermal insulation outside the waterproofing
Manufacturer	RYGOL DÄMMSTOFFE Werner Rygol GmbH & Co. KG Kelheimer Straße 37 93351 Painten DEUTSCHLAND
Manufacturing plant	Annex A
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	040773-00-1201
This version replaces	ETA-20/0425 issued on 29 June 2022

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Specific Part

1 Technical description of the product

This European Technical Assessment applies to the thermal insulation boards of expanded polystyrene (EPS) with the designation:

"Rygol-Perimeterdämmplatte 035 3m", "Rygol-Perimeterdämmplatte 035 TWIN 3m", "Rygol-Perimeterdämmplatte 035 PERI-DRÄN 3m", "Rygol-Perimeter- und Sockeldämmplatte 035 3m" and "Rygol-Perimeter- und Sockeldämmplatte 035 TWIN 3m".

The thermal insulation boards „Rygol-Perimeterdämmplatte 035 3m", "Rygol-Perimeterdämmplatte 035 TWIN 3m", "Rygol-Perimeter- und Sockeldämmplatte 035 3m" and "Rygol-Perimeter- und Sockeldämmplatte 035 TWIN 3m" have a nominal thickness from 50 mm to 400 mm and a moulded (embossed) surface on both sides.

The thermal insulation boards "Rygol-Perimeterdämmplatte 035 PERI-DRÄN 3m" have a nominal thickness from 50 mm to 200 mm and a grooved surface on one side (grooved profile: depth = 8 mm). This surface is coated with a filter fleece.

From a nominal thickness of > 200 mm the thermal insulation boards have a special edge treatment (shiplap, depth ≥ 15 mm).

By a nominal thickness ≤ 200 mm the thermal insulation boards can have a special edge treatment (shiplap, depth ≥ 15 mm).

The thermal insulation boards do not contain Hexabromocyclododecane (HBCD).

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 the product corresponding to this agreed data/information.

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

The thermal insulation boards are intended to be used as external horizontal and vertical thermal insulation of in-ground constructions outside the waterproofing (non-structural application) not constantly exposed to groundwater or to long-term backwater.

The performance according to section 3 only applies if the thermal insulation boards are installed according to the manufacture's installation instructions and if they are protected from precipitation, wetting or weathering during transport and storage before installation.

Concerning the application of the thermal insulation boards, also the respective national regulations shall be observed.

Where the thermal insulation boards are fixed by using adhesives, only such adhesions shall be used, which are suitable for this purpose. The assessment of these fixings is not subject of this European Technical Assessment.

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 boards 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

For sampling, conditioning and testing the provisions of the EAD No 040773-00-1201 apply.

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire test acc. to EN ISO 11925-2:2020	Class E acc. to EN 13501-1:2018

3.2 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal conductivity at a reference temperature of 10 °C test acc. to EN 12667:2001 in accordance with EN 13163:2012+A1:2015	Declared value:[1] λ_D = 0,034 W/(m ·K)
Moisture conversion coefficient	No performance assessed
Water absorption long term water absorption by total immersion test acc. to EN ISO 16535:2019 (method 2A) with deviating drip-off time of max. 10 seconds long term water absorption by diffusion test acc. to EN ISO 16536:2019	 ≤ 3 Vol.-% ≤ 5 Vol.-% (WD(V)5 acc. to EN 13163)
Freeze-thaw resistance test acc. to EN ISO 16546:2020	 ≤ 10 Vol.-%[2] (FTCD10 acc. to EN 13163)
Water vapour diffusion resistance factor	No performance assessed
Geometrical properties thickness test acc. to EN ISO 29466:2022 length, width test acc. to EN ISO 29465:2022 Squareness on length and width test acc. to EN 824:2013 flatness test acc. to EN ISO 29468:2022 profiling and volume loss	tolerance ± 2 mm (T(2) acc. to EN 13163) ± 0,6 % or ± 3 mm [3] (L(3) or. W(3) acc. to EN 13163) 5 mm/m (S(5) acc. to EN 13163) 5 mm (P(5) acc. to EN 13163) no performance assessed

1 The declared value is representive for at least 90 % of the production with a confidence level of 90 % and applies to the density range mentioned in section 3.2.

2 The water absorption after freeze-thaw cycling shall not be increased by more than 10 Vol.-% and the reduction in compressive stress at 10 % deformation of the re-dried specimens, when tested in accordance with EN ISO 29469, shall not exceed 10 % of the initial value.

3 Whichever gives the biggest numerical tolerance.

Essential characteristic	Performance
Deformation under specified compressive load and temperature conditions test acc. to EN 1605:2013 load: 40 kPa, temperature: (70 ± 1) °C time: (168 ± 1) h nominal thickness ≤ 200 mm: nominal thickness > 200 mm:	 ≤ 5 % (DLT(2)5 acc. to EN 13163) ≤ 3 %
Dimensional stability under constant normal laboratory conditions test acc. to EN 1603:2013	 DS(N)2 acc. to EN 13163
Dimensional stability under specified conditions test acc. to EN 1604:2013	 DS(70,-)3 acc. to EN 13163
Tensile strength perpendicular to faces	No performance assessed
Bending strength test acc. to EN 12089:2013 (method B)	 ≥ 200 kPa (BS200 acc. to EN 13163)
Density test acc. to EN ISO 29470:2020	 27 kg/m³ to 35 kg/m³
Compressive stress at 10 % deformation test acc. to EN ISO 29469:2022	 ≥ 150 kPa (CS(10)150 acc. to EN 13163)
Compressive creep	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. 040773-00-1201, the applicable European legal act is: 1999/91/EC.

The system to be applied is:

System 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 28 January 2025 by Deutsches Institut für Bautechnik

Frank Iffländer
Referatsleiter

beglaubigt:
Meyer

"Rygol-Perimeterdämmplatte 035 3m", "Rygol-Perimeterdämmplatte 035 TWIN 3m", "Rygol-Perimeterdämmplatte 035 PERI-DRÄN 3m", "Rygol-Perimeter- und Sockeldämmplatte 035 3m" and "Rygol-Perimeter- und Sockeldämmplatte 035 TWIN 3m"

Annex A

Manufacturing plants

1. RYGOL DÄMMSTOFFE
   Werner Rygol GmbH & Co. KG
   Kelheimer Straße 37
   93351 Painten
   Germany

2. RYGOL DÄMMSTOFFE GmbH & Co. KG
   Straße B Nr. 1
   02991 Lauta
   Germany