

**BUILDING RESEARCH INSTITUTE - NISI****NOTIFIED LABORATORY**Identification number **NB 2032** of the European Commission

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**TEST REPORT
PRODUCT TYPE DETERMINATION****PTD-25.26 / 16.12.2025**

The tests are carried out in compliance with REGULATION (EU) No 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2011 (CPR) for construction products.

Product: EXPANDED POLYSTYRENE BOARDS (EPS)
13 – 15 kg/m³

Producer: Teknopanel DOO Ilinden
Production site: Tehnolosko Industriska Razvojna Zona
Skopje Bunardzik 12/1, North Macedonia

Applicant: Teknopanel DOO Ilinden
Tehnolosko Industriska Razvojna Zona Skopje Bunardzik 12/1,
North Macedonia

Document for assignment: Contract No 87/2025

AVCP System: System “3” according to Annex ZA.3 of
EN 13163:2012+A1:2015

Test samples: 5 boards EPS with dimensions: (1,0 x 0,5 x 0,12) m,
supplied on 13.11.2025 by the Applicant for testing at the
Testing Laboratory for Construction Products (ILSM)

Test period: From 14.11.2025 to 15.12.2025

Assessment of performance: The submitted EPS boards **13 – 15 kg/m³** meet the
requirements of EN 13163:2012+A1:2015 for EPS with
designation code:
EPS-EN 13163- T2-CS (10)70-WL(T)1,5-WL(P)0,1

Head of Test Laboratory
Chief. Assist. Prof. Eng. Plamena Baleva PhD

General Manager of NISI
Maya Koseva



Testing data:

No	Essential characteristic	Unit of measurement	Test method	Test result	Requirement according to EN 13163:2012 +A1:2015
1.	Thickness	mm	EN ISO 29466:2023	118,8±0,7	100,0 ± 2 for level T2
2.	Apparent density	kg/m ³	EN ISO 29470:2020	13,8	-
3.	Thermal conductivity	W/m.K	EN 12667:2001	0,035	Value declared by the Manufacturer
4.	Thermal resistance	m ² .K/W	EN 12667:2001	3,43	Value declared by the Manufacturer
5.	Water absorption by total immersion	%	EN ISO 16535:2019	1,5	≤ 1,5 for level WL(T)1,5
6.	Water absorption by partial immersion	kg/m ²	EN ISO 29767:2019	0,10	≤ 0,1 for level WL(P)0,1
7.	Compressive stress- 10 % deformation	kPa	EN ISO 29469:2023	73	≥ 70 for level CS(10)70

Note: The test has been carried out at the Construction Materials Testing Laboratory – 1, Ilia Beshkov Str., Sofia

Technical documentation:

EN 13163:2012+A1:2015 Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products – Specification

EN ISO 29466:2023 Thermal insulating products for building applications - Determination of thickness

EN ISO 29470:2020 Thermal insulating products for building applications - Determination of the apparent density

EN 12667:2001 Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods

EN ISO 16535:2019 Thermal insulating products for building applications - Determination of long-term water absorption by immersion

EN ISO 29767:2019 Thermal insulating products for building applications - Determination of short-term water absorption by partial immersion

EN ISO 29469:2023 Thermal insulating products for building applications - Determination of compression behaviour

Tests are carried out by
Eng. Tenio Zahariev

Head of Test Laboratory
Chief. Assist. Prof. Eng. Plamena Baleva PhD

