

TECHNICAL DATA SHEET

DRVONEO DN2

Thermal insulation product for general application



The mark of responsible forestry

Product description:

A lightweight two-layer construction panel with a core of expanded polystyrene with improved insulating properties, type Neo Super, coated on one side with a layer of wood wool fibers bonded with cement. Cement binder and additives bind the wood wool (WW) and the core into a compact unit. The surface provides high mechanical resistance of the panel and exceptional adhesion of mortars and adhesives.



Product characteristics:

- High insulation properties – thermal conductivity for Neo Super: $\lambda_D = 0,031 \text{ W/m}\cdot\text{K}$
- Good adhesion with concrete and an ideal surface for plasters
- Reaction to fire: class E according to EN 13501-1
- Insulation core is protected from the influence of the sun during installation
- Neutrality in contact with building materials and metals
- Very good mechanical properties
- Simple formatting and other processing during installation

Purpose, use and installation:

- Thermal insulation of facades in systems with thick-layer plasters
- Thermal insulation of basement ceilings, ceilings above underpasses, columns, thermal bridges, etc.
- Thermal insulation in insulation systems of pitched roofs – attics
- Installation using coated concrete and lost formwork



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Designation code:

WW-C/2 (5/x) EPS-EN 13168-L1-W1-T1-S2-P1-CI3-TR40-CS(10)50

Product label		DN2 25	DN2 35	DN2 50	DN2 75	DN2 100	DN2 125	DN2 150	DN2 175	DN2 200
Thickness – d_N	mm	25	35	50	75	100	125	150	175	200
Thickness of individual layer	mm	5/20	5/30	5/45	5/70	5/95	5/120	5/145	5/170	5/195
Length × width	mm	2000 × 600								
Mass per unit area ¹	kg/m ²	4,20	4,40	4,60	5,00	5,40	5,80	6,20	6,60	6,95
Quantity on the pallet ²	PCS	80	60	40	28	20	16	14	12	10
	m ²	96	72	48	33,6	24	19,2	16,8	14,4	12

¹Tolerance: (-5, +20) % | ²Pallet dimensions: 2000 × 1200 mm

Essential characteristic	Symbol	Unit	Value									EN method
			25	35	50	75	100	125	150	175	200	
Thickness	d_N	mm	25	35	50	75	100	125	150	175	200	EN 13168
Thermal conductivity	λ_D	W/m·K	NEO SUPER: 0,031 WW ^A : 0,077									EN 12667 EN 12939
Thermal resistance	R_D	m ² ·K/W	0,70	1,00	1,50	2,30	3,10	3,90	4,70	5,50	6,35	EN 12667 EN 12939
Length	L1	mm	+5, -10									EN 822
Width	W1	mm	± 3									EN 822
Thickness	T1	mm	+3, -2 ^B +4, -3 ^C									EN 823
Squareness	S2	mm/m	≤ 2									EN 824
Flatness	P1	mm	≤ 6									EN 825
Chloride content	Cl3	%	≤ 0,06									EN 13168
Tensile strength	TR40	kPa	≥ 40									EN 1607
Reaction to fire	-	-	E									EN 13501-1
Compressive strength	CS(10)50	kPa	≥ 50									EN 826
Coefficient of resistance to water vapour diffusion	μ	-	NEO SUPER: 20 – 40 WW: 5									

^AWood wool | ^BLength ≤ 1.250 mm | ^CLength > 1.250 mm

Preparation The panels must be dry before installation. Likewise, the panels need to be acclimatized for at least a week. If necessary, we recommend sawing the panel using an electric circular or manual saw. The surface on which they are installed must be flat, solid, free of dust and loose particles.

Cladding of external and internal walls The panels are installed by gluing them to the substrate with construction adhesive in a strip application along the edge of the panel and dotted in the middle, and additionally mechanically fastened with anchors (PS KOMBI), about 6-9 PCS/m². Panels are installed with the offset of the vertical joints, and at the edges of the building, they are alternately extended a little more than their thickness. In the case of openings on the wall (windows, doors, etc.), the matching of the panel joints with the opening lines should be avoided. The glue ensures good adhesion to the wall, and at the same time enables the leveling of the outer surface. The outer surface of the panels is subsequently processed according to the project requirements, depending on the system (thermal-insulating facades, internal walls, etc.).

Ceilings above passages and unheated spaces A simple and economical method of installation is the so-called »lost formwork« technique. Anchors for concreting (ESA KOMBI or PPS) of the appropriate length are installed in the panels, and then the panels are laid on the formwork construction tightly fitting each other. A reinforcing mesh is then laid over the panels with a gap and everything is poured with concrete. Removing the formwork is quick and easy because the formwork is not in direct contact with the concrete. The panels are firmly bonded to the concrete over the entire surface, and additional strength is provided by concreted anchors. Additional treatments of the panels are possible (by plastering or just painting), and even the untreated ones are durable and have a pleasant appearance.

Safety The installation of panels should be entrusted to a professionally trained person with the use of protective equipment.

Storage The panels are packed and delivered on wooden pallets; the quantities are specified in the table on the first page. They should be stored in covered premises and protected against humidity and direct sunlight. The panels on the pallet are stacked in a horizontal position on a flat surface and they should be carried around in a vertical position (usually by the edge of the longer side).

Waste management The waste generated during the application of the product, including the packaging in which it is packed, must be disposed of in accordance with your country's waste management laws and regulations.

Expiration date Unlimited with proper storage and installation of **DRVONEO DN2** panels.

Certificate The product complies with the requirements of: EN 13168:2012+A1:2015.

- 2477 – Institut IGH d.d., Janka Rakuše 1, 10000 Zagreb, Hrvatska (Croatia)
- Declaration of Performance No DoP-WW-008/23-2, in accordance with Regulation (EU) No 305/2011

The quality and environmental management systems comply with EN ISO 9001 and EN ISO 14001.

This product is FSC 100 % certified.