TECHNICAL DATA SHEET

DRVONEO DN2 AK TOP

Thermal insulation product for general application

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The mark of responsible forestry

Product description:

A lightweight two-layer construction panel made of EPS with graphite additives and mineralized wood wool (WW), which is connected to a compact unit with a cement binder and additives. With the mineralization process, the fire resistance of the wood wool is significantly increased. Due to its porous internal structure and relief surface, it is an excellent insulator in noise protection systems.

Product characteristic:

- Thermal conductivity: λ_D = 0,035 W/m·K
- Reaction to fire: class E according to EN 13501-1
- Insulation core protected from sun exposure during installation
- Resistance to aging, chemical influences, pests and moulds
- Neutrality in contact with building materials and metals
- Verry good mechanical properties
- Simple formatting and other processing during installation
- Pleasant and natural appearance

Purpose, use and installation:

- Coating of ceilings, walls and beams for thermal and acoustic insulation as well as for visual improvement of finished surfaces in residential, commercial and other buildings
- Installation with subsequent cladding

CE
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Designation code:

WW-C/2 (10/x) EPS-EN 13168-L3-W2-T1-S2-P2-CI3-TR80-CS(10)75

Product label		DN2 AK TOP 50	DN2 AK TOP 60	DN2 AK TOP 75	DN2 AK TOP 100	DN2 AK TOP 125	DN2 AK TOP 150	DN2 AK TOP 175	DN2 AK TOP 200
Thickness – d_N	mm	50	60	75	100	125	150	175	200
Thickness of individual layer	mm	10/40	10/50	10/65	10/90	10/115	10/140	10/165	10/190
Length × width	mm	1000 × 600 | 2000 × 600[3]							
Mass per unit area[1]	kg/m^2	7,90	8,05	8,30	8,70	9,15	9,55	9,95	10,40
Quantity on the pallet (for panel: 1000 × 600 mm)[2]	kom	80	68	56	40	32	28	24	20
	m^2	48	40,8	33,6	24	19,2	16,8	14,4	12

[1]Tolerance: (-5, +20) % | [2]Pallet dimensions: 2000 × 1200 mm | [3]On inquiry

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Essential characteristic	Symbol	Unit	Value								EN method
Thickness	d_N	mm	50	60	75	100	125	150	175	200	EN 13168
Thermal conductivity	λ_D	W/m·K	0,035								EN 12667 EN 12939
Thermal resistance	R_D	m^2·K/W	1,40	1,70	2,10	2,85	3,55	4,25	5,00	5,70	EN 12667 EN 12939
Heat transfer coefficient	U	W/m^2·K	0,626	0,531	0,432	0,330	0,267	0,224	0,193	0,170	EN ISO 6946
Length	L3	mm	+2, -3								EN 822
Width	W2	mm	±1								EN 822
Thickness	T1	mm	+3, -2[A] +4, -3[B]								EN 823
Squareness	S2	mm/m	≤ 2								EN 824
Flatness	P2	mm	≤ 3								EN 825
Chloride content	Cl3	%	≤ 0,06								EN 13168
Tensile strength	TR80	kPa	≥ 80								EN 1607
Reaction to fire	-	-	E								EN 13501-1
Compressive strength	CS(10)75	kPa	≥ 75								EN 826
Water vapour diffusion resistance factor	μ	-	NEO SUPER: 20 – 40 WW: 5								EN 13163 EN 13168

[A]Length ≤ 1250 mm | [B]Length > 1250 mm

Preparation

The panels must be dry before installation. They must also be acclimatized - stored for at least a week in the area where they will be installed. 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 walls and ceilings

Subsequent installation:
The panels must be installed mechanically through the entire thickness with anchors, the type and consumption of which depend on the type of substrate and the thickness of the panel. Advice on the type and consumption of fasteners can be found in our Installation Manual. If it is necessary to level the substrate to a lesser extent, the panels can be glued to the substrate with construction adhesive in strips along the edge of the panel and dotted in the middle, but only as an additional and optional fastening element that does not exclude mechanical fastening with anchors.

Factory-made processing options

- width of wood wool: standard 2 mm ; 1,5 mm on inquiry
- format: standard 1000 × 600 mm ; 2000 × 600 mm on inquiry
- cement color: standard white; gray on inquiry
- coloring of one (visible) side: without coloring ; possible on inquiry
- edge processing: standard bevel 5 mm / 45° ; straight edges possible on inquiry
- rabbet edge: without rabbet ; possible on inquiry

Note on the color tone of unpainted panels

The panels are produced with wood from responsibly managed forests. Wood has its own natural characteristics that affect the final natural color of the produced panels, namely its color tone, the conditions in which the tree grew, moisture content, and the time when the trees were felled. However, this does not affect the final quality of the panels. The final natural color of the panels also depends on the production conditions and their drying. In other words, there is no complete uniformity of color tone between the panels, but if it is important, then we recommend painting the panels after installation in the natural color of the panel or in another color.

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 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, must be disposed of in accordance with your country's waste management laws and regulations.

European Waste Catalogue Codes: (according to Commission Decision 2014/955/EU)
- wood wool waste – 17 06 04 – „insulation materials other than those mentioned in 17 06 01 and 17 06 03“
- EPS – 17 02 03 – “plastic”
- cardboard – 15 01 01 – „paper and cardboard packaging“
- wrapping foil, plastic wrapping tape, plastic corners – 15 01 02 – „plastic packaging“
- pallets – 15 01 03 – „wooden packaging“

Expiration date

Unlimited with proper storage and installation.

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Certificate

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

- 2477 – Institut IGH d.d., Janka Rakuše 1, 10000 Zagreb, Hrvatska (Croatia)
- Declaration of Performance No DoP-WW-011/25-1, in accordance with Regulation (EU) No 305/2011

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

The product is FSC 100 % certified.

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