

ENVERTEK LAMELLA DUO

TECHNICAL DATA SHEET | DECEMBER 2024

PRODUCT DESCRIPTION

ENVERTEK LAMELLA DUO are non-combustible, mono-density thermal insulation panels made from stone wool, featuring a vertical fiber arrangement. They are factory-coated on both sides to improve bonding to both the reinforced layer and the substrate, and are water-repellent, providing excellent thermal insulation. This double priming process improves the durability and performance of the insulation system. Their unique design ensures high performance and safety for various building applications.

APPLICATION

This thermal and non-combustible insulation is intended for use in both industrial and civil construction, suitable for new builds and existing structures as part of an ETICS (External Thermal Insulation Composite System). It positively impacts the fire performance of facades. The product is typically bonded to a solid substrate using adhesive but can also be secured with mechanical fasteners to withstand high wind loads and prevent suction. The installation of fire barriers within the system should be specified by the ETICS system provider.

FEATURES AND ADVANTAGES

- Non-combustible (A1)
- Not glowing
- Double-sided coated
- High tensile strength
- Great base for adhesives and mortars
- Dimensionally stable
- Vapor permeable
- Water-repellent
- Mono density
- Recyclable
- Thermal and sound insulation
- RAL and EUCB certified
- CE marked (EN 13162)
- Thickness range 50 – 300 mm



Effective thermal insulation



Non-combustible



Noise reduction



Moisture resistant



Resistant to decay

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DECLARED PARAMETERS

Parameter	Symbol	Unit	Level	Standard
Area of application	-	-	WAP-zh	DIN 4108-10
Declared thermal conductivity	λ_D	W/mK	0.040	EN 13162
Declared thermal conductivity	λ_B	W/mK	0.041	DIN 4108-4
Thickness tolerance class	T	-	T5	EN 823
Dimensional stability under certain temperature and humidity conditions	DS(70,90)	%	≤ 1	EN 1604
Reaction to fire	RtF	-	A1	EN 13501-1
Short-term water absorption	WS	kg/m ²	≤ 1	EN 1609
Long-term water absorption	WL(P)	kg/m ²	≤ 3	EN 12087
Water vapor diffusion resistance coefficient	MU	-	MU1	EN 12086
Compressive stress at 10% deformation	CS(10)	kPa	40	EN 826
Shear strength	SS	N	20	EN 12090
Tensile strength perpendicular to the faces	TR	kPa	80	EN 1607

Product code: MW-EN 13162-T5-DS(70,90)-CS(10)40-TR80-SS20-WS-WL(P)-MU1

DECLARED THERMAL RESISTANCE

Thickness (mm)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150
R_D (m ² K/W)	-	-	-	-	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75
Thickness (mm)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R_D (m ² K/W)	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50

LOGISTICS INFORMATION

Full truck loading: 26 standard pallets

STORAGE

The product may only be stored outdoors in an intact, originally packed pallet. Protected against the harmful effects of weather conditions and set on a dry and stable surface. Maximum stacking height 3 pallets.

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STANDARD DIMENSIONS AND PACKAGING

Thickness (mm)	Length (mm)	Width (mm)	Pallet format (mm)	Pallet (m ³)	Pallet (m ²)	Slabs on a pallet (-)	Pallet height (mm)
50	1200	200	1200 x 800	1.15	23.04	96	1330
60	1200	200	1200 x 800	1.15	19.20	80	1330
80	1200	200	1200 x 800	1.15	14.40	60	1330
100	1200	200	1200 x 800	1.15	11.52	48	1330
120	1200	200	1200 x 800	1.15	9.60	40	1330
140	1200	200	1200 x 800	1.08	7.68	32	1250
160	1200	200	1200 x 800	0.92	5.76	24	1090
180	1200	200	1200 x 800	1.04	5.76	24	1210
200	1200	200	1200 x 800	1.15	5.76	24	1330
220	1200	200	1200 x 800	1.06	4.80	20	1230
240	1200	200	1200 x 800	0.92	3.84	16	1090
260	1200	200	1200 x 800	1.00	3.84	16	1170
280	1200	200	1200 x 800	1.08	3.84	16	1250
300	1200	200	1200 x 800	1.15	3.84	16	1330

CERTIFICATION MARKS



HEALTH AND SAFETY

Kingspan rock mineral fibre insulation materials are declared as articles under the REACH Regulation (EC) No. 1907/2006. All components are not subject to classification and labelling requirements under the CLP Regulation (EC) No. 1272/2008.

For health and safety information please refer to Kingspan Mineral Insulation Safe Use Instruction Sheet.