

ENVERTEK ROOF 70/040 DUAL

TECHNICAL DATA SHEET | DECEMBER 2024

PRODUCT DESCRIPTION

ENVERTEK ROOF 70/040 DUAL are non-combustible, hydrophobic thermal insulation boards made from stone wool, featuring a dual-density structure and disrupted fiber arrangement, are perfect for industrial and civil construction. These boards offer excellent thermal and fire resistance, making them ideal for various building applications.

APPLICATION

Base layer boards are essential for flat roof insulation systems, providing a strong foundation for the roof assembly. With excellent thermal insulation, high compressive strength, and non-combustible, hydrophobic properties, they enhance energy efficiency, fire safety, and moisture protection. Ready-to-use and easy to install, they ensure a durable and reliable roof system.

FEATURES AND ADVANTAGES

- Non-combustible (A1)
- High compressive strength
- Very high point load
- Dimensionally stable
- Vapor permeable
- Dual density
- Recyclable
- Thermal and sound insulation
- RAL and EUCB certified
- CE marked (EN 13162)
- Thickness range 60 – 116 mm



DECLARED PARAMETERS

Parameter	Symbol	Unit	Performances	Standard
Area of application	-	-	DAA	DIN 4108-10
Declared thermal conductivity	λ_D	W/mK	0.039	EN 13162
Declared thermal conductivity	λ_B	W/mK	0.040	DIN 4108-4
Thickness tolerance class	T	-	T4	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
Water vapor diffusion resistance coefficient	MU	-	MU1	EN 12086
Compressive stress at 10% deformation	CS(10)	kPa	70	EN 826
Point load at 5 mm deformation	PL(5)	N	1000	EN 12430
Tensile strength perpendicular to the faces	TR	kPa	10	EN 1607

Product code: MW-EN 13162-T4-DS(70,90)-CS(10)70-TR10-PL(5)1000-WS-MU1



Effective thermal insulation



Non-combustible



Noise reduction



Moisture resistant



Resistant to decay

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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)	-	-	-	-	-	1.50	1.75	2.05	2.30	2.55	2.80	3.05	3.30	3.55	3.80
Thickness (mm)	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R _D (m ² K/W)	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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.

STANDARD DIMENSIONS AND PACKAGING

Thickness (mm)	Length (mm)	Width (mm)	Pallet size (mm)	Pallet (m ³)	Pallet (m ²)	Slabs on a pallet (-)	Pallet height (on MW) (mm)	Pallet height (on wood) (mm)
60	2000	1200	2000 x 1200	2.88	48.00	20	1320	1330
80	2000	1200	2000 x 1200	2.88	36.00	15	1360	1330
100	2000	1200	2000 x 1200	2.88	28.80	12	1300	1330
120	2000	1200	2000 x 1200	2.88	24.00	10	1320	1330
140	2000	1200	2000 x 1200	2.69	19.20	8	1260	1250
160	2000	1200	2000 x 1200	2.30	14.40	6	1120	1090

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.