

# 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 EUCEB certified
- CE marked (EN 13162)
- Thickness range 60 – 160 mm



## DECLARED PARAMETERS

Parameter	Symbol	Unit	Performances	Standard
Area of application	-	-	DAA	DIN 4108-10
Declared thermal conductivity	$\lambda_D$	W/mK	0.039	EN 13162
Declared thermal conductivity	$\lambda_B$	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 <sup>2</sup>	≤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 <sub>D</sub> (m <sup>2</sup> 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 <sub>D</sub> (m <sup>2</sup> 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 <sup>3</sup> )	Pallet (m <sup>2</sup> )	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.