

ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

FLAT ROOFS

TECHNICAL DATA SHEET

MONROCK MAX E

NEW

RIGID HEAVY DOUBLE-LAYER INSULATION BOARD FOR FLAT ROOFS

• PRODUCT DESCRIPTION

Heavy rigid boards made of stone wool with integrated double-layer characteristics, bonded by organic resin and fully hydrophobised. The extremely rigid upper layer with a thickness of up to 20 mm provides for excellent resistance to mechanical stress. It is marked with an inscription on the surface to make sure that the board is always installed with the marked side up.

• APPLICATIONS

Monrock MAX E boards are designed to be used as thermal, fire and acoustic insulation in flat roofs under the roofing. They are attached to the structure using mechanical anchors, hot/cold asphalt glue or polyurethane glue. They may also be covered with pea gravel or non-walkable tiles over the roofing to avoid wind uplift. The boards may be mechanically loaded. The rigid upper layer is solid enough to hold the washers of the anchoring elements.

• PROPERTIES OF ROCKWOOL STONE WOOL

Thermal insulation properties; non-combustibility – protection against spread of fire and flames; sound absorption; water and moisture repellent; water vapour permeability; dimension stability.

• PACKAGING

Monrock MAX E boards are packed in polyethylene foil bearing the name of the manufacturer and a label with the basic product data. Large-format Monrock MAX E boards (marked as GF – grand format) are supplied on pallets sealed in polyethylene foil. They are also marked with the name of the manufacturer and a label with the basic product data.

DIMENSIONS, PRODUCT RANGE AND PACKAGES

Thickness	(mm)	60	80	100	120	140	160	180	200	220	240
Length x width	(mm)	1000 x 600									
Monrock MAX E	m ² / package	2.4	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.6
Length x width	(mm)	2000 x 1200 (GF – grand format)									
Monrock MAX E (GF)	m ² / pallet	43.2	36.0	28.8	24.0	19.2	16.8	14.4	14.4	12.0	12.0
Length x width	(mm)	2000 x 600									
Monrock MAX E	m ² / pallet							14.4	14.4	12.0	12.0

TECHNICAL PARAMETERS

Property	Symbol	Value	Unit	Standard
Reaction to fire	---	A1	---	EN 13501-1
Declared thermal conductivity coefficient	λ_D	0,038	W.m ⁻¹ .K ⁻¹	EN 12667
Water vapour diffusion resistance factor	μ	1	(-)	EN 13162
Dimensional stability at specified temperature	DS(T+)	≤ 1	%	EN 1604
Dimensional stability under specified temperature and humidity conditions	DS(TH)	≤ 1	%	EN 1604
Compressive stress at 10% deformation	σ_{10}	40	kPa	EN 826
Tensile strength perpendicular to faces	σ_{mt}	10	kPa	EN 1607
Point load	F_p	600	N	EN 12430
Specific thermal capacity	c_p	840	J.kg ⁻¹ .K ⁻¹	ČSN/STN 73 0540
Short-term water absorption	W_p	≤ 1	kg.m ⁻²	EN 1609
Long-term water absorption	W_{lp}	≤ 3	kg.m ⁻²	EN 12087
Load to structure by eigen weight	---	max. 2.072	kN.m ⁻³	ENV 1991-2-1
Melting point	t_f	> 1,000	°C	DIN 4102
CE – civil engineering certificate	1390-CPD-0094/08/P 1159-CPD-0050/04-3		Centre of Building Construction Engineering Prague Zertifizierung-und Zulassungstelle für Bauprodukte Graz	
Quality Management System	ISO 9001:2001 – Certificate No. 6001405 ISO 9001:2000 – Certificate No. VNA0005496		Bureau Veritas Certification, s.r.o. Praha Lloyds Register Quality Assurance Limited Budapest	
Environmental Management System	ISO 14001:2004 – Certificate No. 196281 ISO 14001:2004 – Certificate No. VNA0005496		Bureau Veritas Certification, s.r.o. Praha Lloyds Register Quality Assurance Limited Budapest	

Any information contained in this data sheet describes the product properties applicable as at the time of issue. With respect to continuous development of these materials, changes to their properties may take place from time to time. For actual information please contact your sales representative.

ROCKWOOL

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