

## HARDROCK MAX

MW-EN13162-T4-DS(70,-)-DS(70,90)-CS(10)70<sup>1)</sup>-TR10-PL(5)800-WS-WL(P)-MU1

- Unique identification code of the product-type:  
**RW-CEE-0116**
- Intended use: Thermal insulation products for buildings (THIB).
- Manufacturer: ROCKWOOL® Polska Sp. z o.o.,  
ul.Kwiatowa 14, 66-131 Cigacice.
- System of attestation of conformity: **System 1 + System 3**
- Harmonised standard: EN 13162:2012+A1:2015  
Notified body No 1390 Centrum stavebního inženýrství a.s. Praha.  
Certificate of constancy of performance No 1390-CPR-0102/08/P (factory  
Malkinia)
- Declared Performance in the Table 1:

Table 1:

Essential Characteristics	Clauses in this and other European standard(s) related to essential characteristics	Harmonized standard EN 13162:2012+A1:2015	Declared value / NPD <sup>1)</sup>
Reaction to fire	4.2.6 Reaction to fire	Euroclasses	A1
Release of dangerous substances to the indoor environment	4.3.13 Release of dangerous substances	EU level not yet available	c)
Acoustic absorption index	4.3.11 Sound absorption	$\alpha_p$ (AP <sup>2)</sup> ) and $\alpha_w$ (AW <sup>2)</sup> ) declared	NPD
Impact noise transmission index (for floors)	4.3.9 Dynamic stiffness	$s'$ , SD <sup>2)</sup> declared	NPD
	4.3.10.2 Thickness, $d_L$	$d_L$ and classes for thickness tolerances T6 or T7	NPD
	4.3.10.4 Compressibility $c$	CP <sup>2)</sup> declared	NPD
	4.3.12 Air flow resistivity	AF <sup>2)</sup> declared	NPD
Direct airborne sound insulation index	4.3.12 Air flow resistivity	AF <sup>2)</sup> declared	NPD
Continuous glowing combustion	4.3.15 Continuous glowing combustion	EU level not yet available	b)
Thermal resistance	4.2.1 Thermal resistance and thermal conductivity	Thermal conductivity $\lambda$ (W/mK)	0,040
		Thermal resistance $R=d/\lambda$ , (m <sup>2</sup> K/W)	1,25 $\pm$ 5,00 see product label
	4.2.3 Thickness	Thickness range (mm)	50-200
		Ti <sup>2)</sup> class for thickness tolerance	T4
Water permeability	4.3.7.1 Short term water absorption	WS- declared $W_p$ , (kg/m <sup>2</sup> )	$\leq 1$
	4.3.7.2 Long term water absorption	WL(P) - declared $W_p$ , (kg/m <sup>2</sup> )	$\leq 3$
Water vapour permeability	4.3.8 Water vapour transmission	Declared $\mu$ ; (MU <sup>2)</sup> ) or Z <sup>2)</sup>	MU1
Compressive strength	4.3.3 Compressive stress or compressive strength	CS(10) <sup>2)</sup> or CS(10Y) <sup>2)</sup> declared (kPa)	CS(10)70 <sup>1)</sup> *for top layer CS(10)90
	4.3.5 Point load	PL(5) <sup>2)</sup> declared (N)	PL(5)800
Durability of reaction to fire against heat, weathering, ageing/degradation	4.2.7 Durability characteristics	<sup>2)</sup> Euroclasses	A1
Durability of thermal resistance against heat, weathering, ageing/degradation	4.2.1 Thermal resistance and thermal conductivity	<sup>2)</sup> declared $R=d/\lambda$ , (m <sup>2</sup> K/W) and $\lambda$ (W/mK) if possible	1,25 $\pm$ 5,00 see product label
			0,040
	4.2.7 Durability characteristics	DS(70,-) declared The relative changes in thickness	$\leq 1\%$
		DS(70,90) declared The relative changes in thickness	$\leq 1\%$
Tensile strength	4.3.4 Tensile strength perpendicular to faces	TR <sup>2)</sup> declared (kPa)	TR10
Durability of compressive strength against ageing/degradation	4.3.6 Compressive creep	CC( $f_1$ <sup>2)</sup> / $f_2$ <sup>2)</sup> ) $\sigma_c$ compressive creep declared $X_{ct}$ and $X_t$	NPD

<sup>1)</sup> No performance determined (NPD); <sup>2)</sup> no change with time; <sup>3)</sup> "T" indicates relevant class of level or declared value; <sup>4)</sup> national regulations not available; <sup>5)</sup> according to national regulations; see: Safety Use Instruction Sheet;

The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Frank Christian Bartel  
Technical&Production Director  
(Name, function)

Cigacice, 20.03.2016  
(Place, date)

  
(Signature)