

**HARDROCK MAX d=50-200mm****MW-EN 13162-T4-DS(70,-)-DS(70,90)-CS(10)70<sup>a)</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: **System1+ System 3**
- Harmonised standard: **EN 13162:2012**  
Notified body No. **1390 Centrum stavebního inženýrství a.s. Praha**  
Certificate of constancy of performance No **1390-CPR-0102/08/P**  
(factory Maikinia).
- Declared Performance in the Table 1 and Table 2

Table 1

Essential Characteristics	Clauses in this and other European standard(s) related to essential characteristics	Harmonized standard EN 13162:2012	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	<sup>c)</sup>
Acoustic absorption index	4.3.11 Sound absorption	$\alpha_p$ (API <sup>a)</sup> ) and $\alpha_{av}$ (AWI <sup>a)</sup> ) declared	NPD
Impact noise transmission index (for floors)	4.3.9 Dynamic stiffness	$s'$ , SDI <sup>a)</sup> declared	NPD
	4.3.10.2 Thickness, $d_L$	$d_L$ declared and classes for thickness tolerances T6 or T7	NPD
	4.3.10.4 Compressibility $c$	CP <sup>a)</sup> declared	NPD
	4.3.12 Air flow resistivity	AF <sub>i</sub> <sup>a)</sup> declared. Direct airborne sound insulation index	NPD
Direct airborne sound insulation index	4.3.12 Air flow resistivity	AF <sub>i</sub> <sup>a)</sup> declared.	NPD
Continuous glowing combustion	4.3.15 Continuous glowing combustion	EU level not yet available	<sup>c)</sup>
Thermal resistance	4.2.1 Thermal resistance and thermal conductivity	Declared R and $\lambda$ if possible	See table 2 0,040 W/mK
	4.2.3 Thickness	T <sup>a)</sup> class for thickness tolerance	T4
Water permeability	4.3.7.1 Short term water absorption	WS- declared $W_{pi}$	$\leq 1 \text{ kg/m}^2$
	4.3.7.2 Long term water absorption	WL(P) -declared $W_{lp}$	$\leq 3 \text{ kg/m}^2$
Water vapour permeability	4.3.8 Water vapour transmission	Declared $\mu$ ; (MUI <sup>a)</sup> ) or Z <sup>a)</sup>	MU1
Compressive strength	4.3.3 Compressive stress or compressive strength	CS(10) <sup>a)</sup> or CS(10(Y)) <sup>a)</sup> declared	CS(10)70 <sup>a)</sup> kPa
	4.3.5 Point load	PL(5) <sup>a)</sup> declared	PL(5)800 N
Durability of reaction to fire against heat, weathering, ageing/degradation	4.2.7 Durability characteristics	Reaction to fire as declared by 4.2.6	not change with time
Durability of thermal resistance against heat, weathering, ageing/degradation	4.2.1 Thermal resistance and thermal conductivity	Declared R and $\lambda$ if possible	not change with time
	4.2.7 Durability characteristics	DS(70,-) declared The relative changes in thickness	$\leq 1\%$
	4.3.2. Dimensional stability under specified temperature or under specified temperature and humidity conditions	DS(70,90) declared The relative changes in thickness	$\leq 1\%$
Tensile strength	4.3.4 Tensile strength perpendicular to faces	TRI <sup>a)</sup> declared	TR10 kPa
Durability of compressive strength against ageing/degradation	4.3.6 Compressive creep	CC( $i_1$ <sup>a)</sup> / $i_2$ <sup>a)</sup> ) $\sigma_c$ compressive creep declared $X_{ci}$ and $X_{ci}$	NPD

<sup>1)</sup> No performance determined; <sup>a)</sup> "i" indicates relevant class of level or declared value; <sup>b)</sup> national regulations not available; <sup>c)</sup> according to national regulations; see: Safety Use Instruction Sheet;  
\*) for top layer: CS(10)90 kPa

Table 2

	Thermal resistance, $R_0$														
d(mm)	50	60	80	100	120	130	140	150	160	170	180	190	200	-	-
$R_0(\text{m}^2\text{K/W})$	1,25	1,50	2,00	2,50	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00	-	-

NOTE: R value for thickness not seen in Table 2, is available on product label

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, 30.12.2015  
Place, date

  
Signature