

1. Unique identification code of the product-type: RW-PL-G-1043
2. Type and serial number allowing identification of the product: **See the product label: Hardrock Energy d=50-160mm, MW-EN 13162-T5-CS(10)30-TR10-PL((5)500-WS- WL(P) MU1**
3. Intended use of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer: **Thermal insulation for building**
4. Name, registered trade name or trade mark and contact address of the manufacturer as required under article 11(5): **ROCKWOOL® Hungary Kft, Keszthelyi út 53, Tapolca H-8300**
5. System of attestation of conformity: **System 1+ System 3**
6. Notified Certification body **ÉMI Építésügyi Minőségellenőrző Innovációs Nonprofit Kft., Diószegi út 37, Budapest HU-1113** No. 1415 performed, carried out the initial type testing, the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the CE Certificate of Conformity No **1415-CPD-35-(C-7/2010)**
7. Declared Performance: **Hardrock Energy d=50-160mm; MW-EN 13162-T5-CS(10)30-TR10-PL((5)500-WS- WL(P) MU1**

Essential Characteristics	Clauses in this and other European standard(s) related to essential characteristics	Harmonized standard EN 13162:2008	Declared value / NPD ¹⁾
Reaction to fire	4.2.8 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	a)
Acoustic absorption index	4.3.11 Sound absorption	α_p (AP ^{a)}) and α_w (AW ^{a)}) declared	NPD
Impact noise transmission index (for floors)	4.3.9 Dynamic stiffness	s' , SDP ^{a)} declared	NPD
	4.3.10.1 Thickness, d_L	d_L declared and classes for thickness tolerances T6 or T7	NPD
	4.3.10.3 Compressibility c	CP ^{a)} declared	NPD
Direct airborne sound insulation index	4.3.12 Air flow resistivity	AF _r ^{a)} declared. Direct airborne sound insulation index	NPD
	4.3.12 Air flow resistivity	AF _r ^{a)} declared.	NPD
Continuous glowing combustion	4.3.15 Continuous glowing combustion	EU level not yet available	a)
Thermal resistance	4.2.1 Thermal resistance and thermal conductivity	Declared R and λ if possible	See table 1 0,036 W/mK
	4.2.3 Thickness	T ^{a)} class for thickness tolerance	T5
Water permeability	4.3.7.1 Short term water absorption	WS- declared W_p	≤ 1 kg/m ²
	4.3.7.2 Long term water absorption	WL(P)-declared $W_{p,p}$	≤ 3 kg/m ²
Water vapour permeability	4.3.8 Water vapour transmission	Declared μ ; (MU ^{a)}) or ZI ^{a)}	MU1
Compressive strength	4.3.3 Compressive stress or compressive strength	CS(10) ^{a)} or CS(10\Y) ^{a)} declared	≥ 30 kPa
	4.3.5 Point load	PL(5) ^{a)} declared	≥ 500 N
Durability of reaction to fire against heat, weathering, ageing/degradation	4.2.9.2 Durability of reaction to fire	Reaction to fire against ageing	not change with time
Durability of thermal resistance against heat, weathering, ageing/degradation	4.2.1 Thermal resistance and thermal conductivity	Declared R and λ if possible	not change with time
	4.2.6 Dimensional stability for 48h exposure at (23 \pm 2)°C and 90 \pm 5% relative humidity:	The relative changes in thickness	$\leq 1,0\%$
	4.3.2.1 Dimensional stability at specified temperature	DS(T ⁺) declared The relative changes in thickness	NPD
	4.3.2.2 Dimensional stability under specified temperature and humidity conditions	DS(TH) declared The relative changes in thickness	NPD
Tensile/Flexural strength	4.2.7 Tensile strength parallel to faces	σ_t declared, high enough to support twice the weight of the full-size product	NPD
	4.3.4 Tensile strength perpendicular to faces	TRI ^{a)} declared	≥ 10 kPa
Durability of compressive strength against ageing/degradation	4.3.6 Compressive creep	CC(t_1 ^{a)} / t_2 ^{a)}) σ_c compressive creep declared X_{c1} and X_{c2}	NPD

¹⁾ no performance determined

^{a)} "r" Indicates relevant class of level or declared value

^{b)} national regulations not available

^{c)} according to national regulations; see: Safety Use Instruction Sheet

Table 1

Thermal resistance, R_D													
d(mm)	20	30	40	50	60	80	100	110	120	140	160	180	200
$R_D(m^2K/W)$	--	--	--	1,35	1,65	2,20	2,75	3,05	3,30	3,85	4,40	5,00	--

NOTE: R value for thickness not seen in Table 1, is available on product label

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 7. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Frank Christian Bartel
Technical and Production Director



Signature

Tapolca, 01. 07. 2013.