ROCKWOOL®

THERMAL AND FIRESAFE INSULATION

TECHNICAL INSULATIONS

DATASHEET

WIRED MAT 80 ZINK/RTD-2



WIRED INSULATION MATS

PRODUCT DESCRIPTION

Mineral wool mats, bonded with organic resin, steel or zinc netting on one side.
Stainless netting is available on request.

APPLICATION

RTD are used for thermal, acoustic and fire-safe insulation of piping, reservoirs, flue gas ducting, industrial equipment, air conditioning, etc., at operating temperatures up to 650 °C, 700 °C, and 750 °C respectively.

SPECIFIC PROPERTIES OF ROCKWOOL STONE WOOL

- Excellent thermal, acoustic and fire-safe qualities;
- Thermal qualities not affected by time passing by;
- Water and moisture repellent, absolute vapour permeability and dimension stability;
- Chemically neutral;
- Hydrophobic and non-hygroscopic;
- Environmentally friendly, no contents of asbestos or toxic elements;
- Fast and easy to assemble;
- Harmless to man, no requirements for special means of protection;
- Not an environment for rodents and micro-organisms.

PACKING

The slabs are wrapped in PE foil with the name of the manufacturer and the basic product data printed on the label.

DIMENSIONS, PRODUCT RANGE AND PACKING							
Thickness (mm)	40	50	60	70	80	90	100
Width (mm)	500						
m^2 / pack	6.00	4.00	3.00	2.50	2.50	2.00	2.00
Number rolls in pack	2	2	2	2	2	2	2

Non-standard sizes are available upon agreement with ROCKWOOL, a.s.

TECHICAL PARAMETERS										
Typical features	Symbol	Value				Unit				Standard
Density	ρ	~ 80				kg /m³				EN 1602
Working temperature	t_t	max. 700*				°C				--
Medium thermal resistance	λ_D	0.036				W / m.K				EN 12667
Medium thermal resistance at different temperature	t_m	50	100	150	200	250	300	350	°C	EN 12667
	λ_m	0.039	0.044	0.050	0.060	0.070	0.083	0.100	$W.m^{-1}.K^{1}$	
Reaction to fire	A_1	Non combustible				-				EN 13501-1
Compression behavior at 10% deformation	σ_{10}	test = 0.6				kPa				EN 826
Specific heat capacity	C_p	840				J / kg.K				EN 13162
Melting point	t_t	> 1000				°C				DIN 4102
Number of water vapor transmission propertie	μ	1				kg /m³				EN 12086
24 h short term water absorption by partial immersion	W_p	≤ 1		test = 0.20		kg /m²				EN 1609
Noise reduction coefficient α_s	Hz	125	250	500		1000	2000	4000		EN 20354
	α_s / δ = 50mm	0.18	0.81	0.88		0.90	0.82	0.85		
	α_s / δ = 100mm	0.51	0.90	0.97		0.90	0.88	0.88		
Bulgarian Technical Approval	Protocol № 00-140/ 12.05.2004					SRICM, Sofia				EN 13162
Sanitary Permit	№ 03579 / 2000 by Bulgarian Ministry of Health									
Environment Management System	Certificate No.140868					Bureau Veritas (BVQI) CS Prague				ISO 14001:2000
Quality Management System	Certificate No. 134429					Bureau Veritas (BVQI) CS Prague				ISO 9001:2000

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.

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