

EC-CERTIFICATE OF CONFORMITY

0751-CPD.2-007.0-03-01/12

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product

Factory made mineral wool (MW) products

as thermal insulation products for building equipment and industrial installations
for uses subject to regulations on reaction to fire

(product parameters and classes, description of the product, the declaration and the use of the product
is presented in the annex)

placed on the market by

Rockwool Technical Insulation
Delfstoffenweg 2
6045 JH Roermond / Netherlands

and produced in the factory

Deutsche Rockwool Mineralwoll GmbH & Co. OHG
Ruhrstraße 13
86633 Neuburg / Germany

is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body

0751 - Forschungsinstitut für Wärmeschutz e.V. München

has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard

EN 14303:2009
with the Annex B and C of EN 13172:2008
and Section 5 of EN ISO 13787:2003

were applied and that the product fulfils all the prescribed requirements.

This certificate was first issued on June 29, 2012 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the Factory Production Control itself are not modified significantly.

Gräfelfing, June 29, 2012



Head of Certification Body


Dr.-Ing. Martin Zeitler

A publication of extracts or a referring to the EC-Certificate of conformity and its annex requires the prior written approval of FIW München.

Information of the validity of the certificate is available at www.fiw-muenchen.de



Factory: **Deutsche Rockwool Mineralwoll GmbH & Co. OHG, Ruhrstraße 13, 86633 Neuburg, Germany**
 Construction product(s): **Factory made mineral wool (MW) products according to EN 14303:2009**
 Intended use: **Thermal insulation products for building equipment and industrial installations**
 Level(s) or class(es) reaction to fire: **for uses subject to regulations on reaction to fire A1/A2. Products for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification by limiting of organic material**
 Attestation of conformity system: **1**

Table 1: Designation and description of the products

No.	Product				Nominal thickness in mm	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a/b	Additional performance **)
	Form	Type (old)	Description	produced on		Name	Dated				
1	Wired Mat	ProRox WM 940 (ProRox WM 70) ProRox WM 940 S (ProRox WM 70 S) ProRox WM 940 SW (ProRox WM 70 SW) *)	Non-combustible mineral wool wired mat with galvanized or stainless steel mesh and stitching wire	NEU 4	30 – 120 Load: 1000 Pa	PDS 051	21.05.12	A1	MW EN 14303-T2-ST(+)-580-WS1-CL10	TC1	acoustic
2	Wired Mat	ProRox WM 950 (ProRox WM 80) ProRox WM 950 S (ProRox WM 80 S) ProRox WM 950 SW (ProRox WM 80 SW) *)	Non-combustible mineral wool wired mat with galvanized or stainless steel mesh and stitching wire	NEU 4	30 – 120 Load: 1000 Pa	PDS 052	21.05.12	A1	MW EN 14303-T2-ST(+)-640-WS1-CL10	TC2	acoustic
3	Wired Mat	ProRox WM 960 (ProRox WM 100) ProRox WM 960 S (ProRox WM 100 S) ProRox WM 960 SW (ProRox WM 100 SW) *)	Non-combustible mineral wool wired mat with galvanized or stainless steel mesh and stitching wire	NEU 4	30 – 120 Load: 1000 Pa	PDS 053	21.05.12	A1	MW EN 14303-T2-ST(+)-660-WS1-CL10	TC3	acoustic





No	Product				Nominal thickness in mm	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a/b	Additional performance (**)
	Form	Type (old)	Description	produced on		Name	dated				
4	Wired Mat	ProRox WM 970 (ProRox WM 128) ProRox WM 970 S (ProRox WM 128 S) ProRox WM 970 SW (ProRox WM 128 SW *)	Non-combustible mineral wool wired mat with galvanized or stainless steel mesh and stitching wire	NEU 4	30 – 120 Load: 1000 Pa	PDS 054	21.05.12	A1	MW EN 14303-T2-ST(+) 680-WS1-CL10	TC4	acoustic
5	Wired Mat	ProRox WM 980 (ProRox WM HT) ProRox WM 980 S (ProRox WM HT S) ProRox WM 980 SW (ProRox WM HT SW *)	Non-combustible mineral wool wired mat with galvanized or stainless steel mesh and stitching wire	NEU 4	100 Load: 1000 Pa	PDS 055	21.05.12	A1	MW EN 14303-T2-ST(+) 720-WS1-CL10	TC5	acoustic
6	Slab	ProRox SL 930 ^D (RTP-W)	Non-combustible mineral wool slab	NEU 5	40 – 160 Load: 50 Pa	PDS 056	21.05.12	A1	MW EN 14303-T4(T3 if t<60)-ST(+) 350-WS1-CL10	TC6	acoustic
7	Slab	ProRox SL 950 ^D (RPB-9)	Non-combustible mineral wool slab	NEU 5	30 – 120 Load: 50 Pa	PDS 057	21.05.12	A1	MW EN 14303-T4(T3 if t<60)-ST(+) 640-WS1-CL10	TC7	acoustic
8	Slab	ProRox SL 970 ^D (RPB-12)	Non-combustible mineral wool slab	NEU 5	30 – 120 Load: 250 Pa	PDS 058	21.05.12	A1	MW EN 14303-T4(T3 if t<60)-ST(+) 680-WS1-CL10	TC8	acoustic

No.	Product				Nominal thickness in mm	Product data sheet		Reaction to fire class EN 13501-1	Designation code	Thermal conductivity according Table 2a/b	Additional performance **)
	Form	Type (old)	Description	produced on		Name	Dated				
9	Slab	ProRox SL 980 ^D (RPB-15)	Non-combustible mineral wool slab	NEU 5	30 – 120 Load: 250 Pa	PDS 059	21.05.12	A1	MW EN 14303-T4(T3 if t<40)-ST(+)-700-WS1-CL10	TC9	acoustic
10	Lamella Mat	ProRox MA 520 ALU (Duraflex)	Non-combustible mineral wool lamella mat onto reinforced aluminium foil, compression-resistant	NEU 5 Offline	30 – 130 Load: 250 Pa	PDS 060	21.05.12	A1	MW EN 14303-T3-ST(+)-500-CS(10)10-WS1-MV2-CL10	TC10	acoustic
11	Pipe Section	Rockwool 800	Non-combustible mineral wool circular pipe section covered with reinforced aluminium foil	NEU 5 CIR 1	20 – 40 Length: 1000 mm Inside diameter: 15 – 48 mm	10.1001.3	06/2012	D _o ≤ 300 mm A2 _L -s1,d0 D _o > 300 mm A2-s1,d0	MW-EN 14303-T9(T8 if D _o <150)-ST(+)-250-WS1-MV2-CL10	TC11	acoustic
12	Lamella Mat	Rockwool Klimarock	Non-combustible mineral wool lamella mat onto reinforced aluminium foil	NEU 5 Offline	20 -100 Load: 250 Pa	10.1002.3	06/2012	A1	MW EN 14303-T3-ST(+)-250-WS1-MV2-CL10	TC12	acoustic

*1) S: galvanized steel mesh and stainless wire, SW: stainless steel mesh and stainless wire

**1) acoustic = Airflow resistivity according to EN 29053 > 5 kPa-s/m² (informative)

t = thickness in mm

D_o = outer diameter





**Table 2a: Declared values of thermal conductivity $\lambda_{N,P}$ in W/(m·K) according EN 13787
 Guarded Hot Plate, based on test results of EN 12667 and CEN/TS 15548-1**

Thermal Conductivity $\lambda_{N,P}$ in W/(m·K)	Product Type (old)	Temperature ϑ in °C											$\lambda_{N,P}^{ST(+)}$
		50	100	150	200	250	300	350	400	500	600	700	
TC1	ProRox WM 940 (ProRox WM 70) ProRox WM 940 S (ProRox WM 70 S) ProRox WM 940 SW (ProRox WM 70 SW)	0,040	0,047	0,056	0,067	0,080	0,094	0,111	0,130	0,173	-	-	0,212 ⁵⁸⁰
TC2	ProRox WM 950 (ProRox WM 80) ProRox WM 950 S (ProRox WM 80 S) ProRox WM 950 SW (ProRox WM 80 SW)	0,039	0,045	0,053	0,062	0,072	0,084	0,097	0,112	0,146	0,192	-	0,213 ⁶⁴⁰
TC3	ProRox WM 960 (ProRox WM 100) ProRox WM 960 S (ProRox WM 100 S) ProRox WM 960 SW (ProRox WM 100 SW)	0,039	0,045	0,052	0,059	0,068	0,078	0,089	0,102	0,131	0,167	-	0,191 ⁶⁶⁰
TC4	ProRox WM 970 (ProRox WM 128) ProRox WM 970 S (ProRox WM 128 S) ProRox WM 970 SW (ProRox WM 128 SW)	0,040	0,045	0,051	0,058	0,066	0,075	0,085	0,096	0,123	0,157	-	0,188 ⁶⁸⁰
TC5	ProRox WM 980 (ProRox WM HT) ProRox WM 980 S (ProRox WM HT S) ProRox WM 980 SW (ProRox WM HT SW)	0,042	0,047	0,054	0,062	0,071	0,081	0,093	0,106	0,137	0,174	-	0,228 ⁷²⁰
TC6	ProRox SL 930 ^D (RTP-W)	0,040	0,049	0,059	0,070	0,085	0,103	0,122					
TC7	ProRox SL 950 ^D (RPB-9)	0,039	0,045	0,053	0,062	0,073	0,084	0,097	0,122	0,144	0,185		0,203 ⁶⁴⁰





Thermal Conductivity $\lambda_{N,P}$ in W/(m·K)	Product Type (old)	Temperature ϑ in °C											
		50	100	150	200	250	300	350	400	500	600	700	$\lambda_{N,P}^{ST(+)}$
TC8	ProRox SL 970 ^D (RPB-12)	0,041	0,046	0,052	0,059	0,068	0,077	0,087	0,099	0,128	0,162	-	0,196 ⁶⁸⁰
TC9	ProRox SL 980 ^D (RPB-15)	0,040	0,044	0,049	0,055	0,062	0,069	0,077	0,086	0,106	0,130	0,158	
TC10	ProRox MA 520 ALU (Duraflex)	0,044	0,053	0,064	0,077	0,092	0,110	0,132	0,156	0,216			
		10	50	100	150	200	250						
TC12	Rockwool Klimarock	0,038	0,047	0,060	0,075	0,093	0,114						





**Table 2b: Declared values of thermal conductivity $\lambda_{N,R}$ in W/(m·K) according EN 13787
 Pipe Tester, based on test results of EN ISO 8497**

Thermal Conductivity $\lambda_{N,R}$ in W/(m·K)	Product Type (old)	Mean temperature ϑ_m in °C									
		10	20	30	50	100	150	200	250	300	350
TC11	Rockwool 800	0,033	0,034	0,035	0,037	0,044	0,052				

All products are exonerated from classification "possible carcinogenic" by note Q of Commission Directive 97/69/EC



Gräfelfing, June 29, 2012

Head of Certification Body

Dr.-Ing. Martin Zeitler

ProRox WM 920

Opis produktu

ProRox WM 920 to mata ze skalnej wełny mineralnej z jednostronną okładziną z siatki galwanizowanej przyszytej galwanizowanym drutem do warstwy wełny. Maty ProRox WM 920 przeznaczone są do izolacji termicznej i akustycznej (od podstaw, jak również na bieżące remonty i renowacje) rurociągów, sieci ciepłych, zbiorników, pieców, powierzchni płaskich, armatury.

Zgodność

Maty ProRox WM 920 są w pełni zgodne z wymaganiami ustalonymi przez międzynarodowo uznane normy, takie jak EN14303.

Parametry techniczne

	Właściwości produktu												Norma
Przewodność cieplna	T (°C)	50	100	150	200	250	300	350	400	500			EN 12667
	λ (W/mK)	0,039	0,047	0,055	0,064	0,076	0,089	0,103	0,120	0,159			
Maksymalna temperatura stosowania	500 °C												EN 14706
Klasa reakcji na ogień	EuroClass A1												EN 13501-1
Gęstość nominalna	60 kg/m ³												EN 1602
Nasiąkliwość wodą	WS1 (\leq 1 kg/m ²)												EN 1609
Zawartość chlorków	CL10 (\leq 10 ppm)												EN 13468
Przenikanie pary wodnej	$\mu = 1$												EN 14303
Opór przepływu powietrza	> 15 kPa.s/m ²												EN 29053
Kod produktu	MW EN 14303-T2-ST(+)+500-WS1-CL10												EN 14303



ProRox® WM 950

ProRox WM 950 is a lightly bonded stone wool insulation mat stitched on galvanized wire mesh with galvanized wire. Stainless steel mesh and binding wire (SW), and/or reinforced aluminium foil (ALU) facing are available upon request. The wired mats are produced with an innovative water-repellent binder, known as WR-Tech™, to mitigate the risk of corrosion under insulation (CUI). WR-Tech ensures our stone wool maintains its superior water repellency even at elevated operating temperatures within the CUI range, while preserving its excellent thermal performance in use.



Application

The wired mat is suitable for the thermal and acoustic insulation of industrial installations exposed to the environment, such as outdoor industrial pipework and equipment at petrochemical plants and refineries.

Product properties in accordance with EN 14303



Properties	Performance													Norms
Thermal conductivity	T (°C)	50	100	150	200	250	300	350	400	500	600	640	EN 12667	
	λ (W/mK)	0,039	0,045	0,053	0,062	0,072	0,084	0,097	0,112	0,146	0,192	0,213		
Maximum Service Temperature	640°C												EN 14706	
Reaction to fire	Euroclass A1 Non-combustible												EN 13501-1 IMO 2010 FTPC	
Density	80 kg/m ³												EN 1602	
Corrosion resistance	Trace quantity of water leachable chloride ions: ≤ 10 mg/kg												EN 13468	
Water absorption	$\leq 0,2$ kg/m ² $\leq 0,2$ kg/m ² (After 24 hrs. pre-heating at 250°C)												EN 1609 EN ISO 29767	
Water vapour diffusion resistance	$\mu = 1$												EN 14303	
Influence on coating systems	Free from substances (e.g. silicone oil) that might impair surface wetting												VW 3.10.7	
Designation code*	MW EN 14303-T2-ST(+) μ 640-WS1-CL10												EN 14303	

* Thickness class declared under the load of 1000 Pa

Compliance

- ProRox WM 950 fully complies with the requirements as set by the internationally recognized standards like EN 14303, ASTM C592 Type III, ASTM C795, VDI 2055, VDI 2055 and CINI 2.2.02.
- Above product declarations are also applicable for other available product variances and/or optional facings.
- ROCKWOOL stone wool insulation is made from volcanic rock and is not classified as a hazardous substance in accordance with Note Q, regulation (EC) No. 1272/2008.

As ROCKWOOL has no control over insulation design and workmanship, accessory materials or applications conditions, ROCKWOOL does not warranty the performance or result of any installation containing ROCKWOOL products. ROCKWOOL's overall liability and the remedies available are limited by the general terms and conditions of sale. This warranty in lieu of all other warranties and conditions expressed or implied, including the warranties of merchantability and fitness for a particular purpose. ROCKWOOL Technical Insulation reserves the right to make necessary product changes at any time. Technical specifications are thus stated subject to change.

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