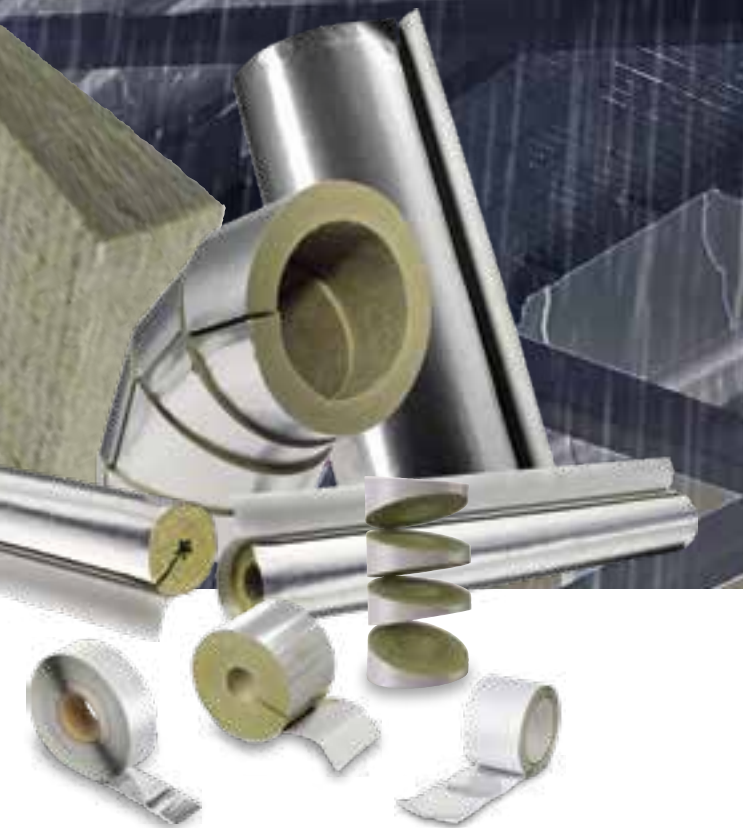


# PAROC CLAD SYSTEM

THE WATERPROOF INSULATION SYSTEM

## PAROC CLAD SYSTEM: WATER & UV PROOF INSULATION SYSTEM:

- works also in saltwater environment
- with weather protection cover film
- applicable for food industry
- replaces steel sheets



**PAROC**<sup>®</sup>



Video  
PAROC Clad-System

**MINIMUM  
INSTALLATION  
TEMPERATURE:  
10 °C**

# PAROC CLAD SYSTEM: INSULATION SOLUTION FOR EXTERNAL PIPEWORK AND DUCTWORK APPLICATIONS

## UV-RESISTANT, IMPERMEABLE TO WATER, SALT WATER RESISTANT

In today's world, insulation systems that are economically sustainable, efficient through time saving installation across a wide range of applications, are in demand.

The Clad-System by PAROC effectively insulates pipework and ventilation systems quickly, safely, and sustainably with a special highly durable multiple layer composite film for external applications. It reliably protects PAROC stone wool against moisture, environmental impact, and chemical substances.

As a result of the high temperature resistance of our Pro (industrial) stone wool products which is the base insulation material for the Clad-System, it can be used on temperatures up to 680°C. Therefore, it protects against temperature losses on high temperature systems and steam lines for example.

## COMPREHENSIVE TEST REPORTS AVAILABLE

In order to increase the range of applications the Clad-Film underwent specific tests. For example, testing included for safety of use in food industry applications (food contact applications according to EC 1935/2004, EU 10/2011, EC 2023/2006 as well as the German Food and essential Commodities and Animal Feed Code, or LFGB for short).

In addition, the Clad-Surface is smooth, easy to clean and due to its resistance to chemical substances - provides bacteria no ground on which to grow on, so it can be used in laboratories and clean rooms.

The Clad-System by PAROC can also be used in coastal applications, since its resistance to salt air and salt water has been proven along with successful puncture resistance testing in accordance with DIN EN 14 477 resulting in the Clad-System offering protection against "bird pecking" which is further supplemented by its sturdy base material.

Another major advantage of the Clad-Surface can be found when personal protection is of importance. Due to a higher emission ratio ( $\epsilon$  0.65) of the Clad-Film, insulation thicknesses can be reduced when compared to insulation in conjunction with metal cladding (low emissivity), resulting in a cost saving.

## UNLOCKING FURTHER APPLICATION POSSIBILITIES

PAROC Clad-System offers further application possibilities due to its fully metal-free and non-corroding surface which reduces the weight of a construction and is maintenance friendly. In addition to the system being perfectly suited for all building services, due to its watertight installation it can be used in areas in danger of flooding. The system can also be used to insulate pipework or ventilation systems which require weather protection in areas where space is limited or tight, which make inflexible metal covering systems difficult to use.

Installation of the Clad-System is made easy by comprehensive instructions, specific accessories such as matching tape, Clad Dots (circular prefabricated tape for covering fastenings and cut-outs), along with documentation and test reports.



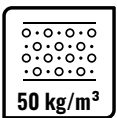
# PAROC CLAD PRODUCTS



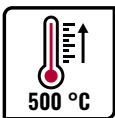
## EXPLANATION OF SYMBOLS

### TECHNICAL SPECIFICATIONS

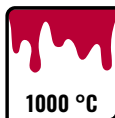
Nominal density



Maximum service temperature



Melting point

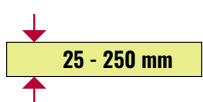


Non-combustible

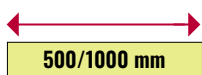


### DIMENSIONS

Thickness



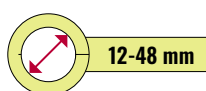
Width



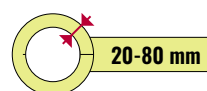
Length



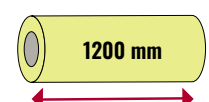
Inner diameter



Insulation thickness



Section length



### ADDITIONAL INFORMATION

Data sheet

Accessories

Installation video

Packing details

Dimension Guide

Installation manual

Water-repellent version available without surcharge

**(WR)**

# CLAD SYSTEM

## PAROC PRO SECTION (WR) 140 CLAD T

Stonewool pipe section with a uv-resistant, fibre reinforced aluminium coating



**Accessories**  
 PAROC Clad Tape  
 PAROC Pro Knife XTK001/003  
 PAROC Pallet Hoods  
 PAROC Clad Alu Tape

### ADDITIONAL SYSTEM PRODUCTS



PAROC PRO BEND (WR) CLAD



PAROC PRO SEGMENT (WR) CLAD



PAROC PRO COMBI (WR) 140 CLAD T

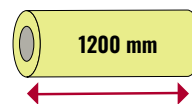
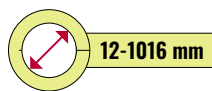
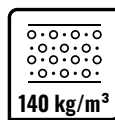
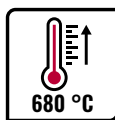
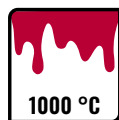


#### APPLICATION

- Thermal insulation of outdoor pipelines
- Due to a weather-resistant aluminum coating, outdoor installation without additional cladding systems; additionally the mineral wool is protected from mechanical loads, moisture as well as chemical substances

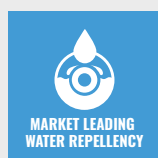
#### TECHNICAL SPECIFICATIONS

- Water-repellent according to EN 1609
- AS quality according to EN 13468 and AGI Q 132
- The surface temperature of the lamination must be limited to 80 °C
- CE designation Code: MW-EN 14303-T8/T9-ST(+)-680-WS1-MV2-CL10
- PAROC Pro WR products are tested according to LABS conformity standard VDMA 24364



Nominal value of the thermal conductivity  $\lambda$  according to DIN EN 12667

t	°C	50	100	150	200	250	300	400
$\lambda_{N,P}$	W/mK	0.041	0.047	0.054	0.063	0.073	0.085	0.110



Video PAROC  
Clad-System

# CLAD SYSTEM

## PAROC PRO LAMELLA MAT (WR) CLAD

Stonewool lamella mat with UV-resistant, fibre reinforced aluminium coating



### Accessories

- PAROC Clad Tape
- PAROC Clad Dots
- PAROC Clad AluTape
- PAROC Head Pins Insulated
- PAROC Pro Knife XTK001/003
- PAROC Schweißgerät - ZTM 100
- PAROC Spatula
- PAROC Pallet Hoods
- PAROC Pro Roof Wedge (WR)

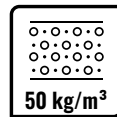
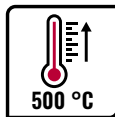
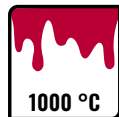


### APPLICATION

- Outdoor insulation of ventilation ducts, pipelines and containers;
- The insulation system does not require any further cladding systems; additionally
- The mineral wool is protected from mechanical loads, moisture and chemical substances

### TECHNICAL SPECIFICATIONS

- Water-repellent according to EN 1609
- AS quality according to EN 13468 and AGI Q 132
- Compressive strength > 10 kPa according to EN 826
- The surface temperature of the lamination must be limited to 80 °C
- CE designation Code: MW-EN 14303-T4-ST(+)-500-WS1-MV2-CL10
- PAROC Pro WR products are tested according to LABS conformity standard VDMA 24364



Nominal value of the thermal conductivity  $\lambda$  according to DIN EN 12667

t	°C	10	50	100	200	300
$\lambda_{N,P}$	W/mK	0.039	0.045	0.055	0.081	0.120



Video PAROC Clad-System

# CLAD SYSTEM ACCESSORIES

## PAROC CLAD DOTS

PAROC Clad Dots are the optimal solution when it comes to cover pins' heads



Ø mm	Piece / roll	Rolls per box
90	100	6

## PAROC CLAD TAPE

Water resistant butyl rubber tape with very high tack and very high ageing resistance



### Application

- Used amongst others for masking of Clad faced products. The Clad sealing tape can be used as moisture and diffusion barriers; ideal for sealing the joints when using PAROC Clad products.
- Permanently seal pipes and ventilation ducts facings in heating, ventilation and air conditioning engineering. The butyl sealing tapes are also used as moisture and diffusion barriers in underground construction. PAROC Clad Tape gives a great finish and safe installation

Length mm	Width mm	Rolls per box
10000	30	20
10000	50	12
10000	75	8
10000	100	6

## PAROC CLAD ALU TAPE

Water resistant acryl tape with very high tack and very high ageing resistance for pipe elbows



Length m	Width mm	Rolls per box
10	50	12

## PAROC PRO ROOF WEDGE (WR)

Stonewool wedge plate with a gradient of at least 3%. The length measure corresponds to the longitudinal direction of the duct.



Thickness mm	Length mm	Width mm
25/60	600/1200	1200/600
42/60	600	1200



# ACCESSORIES

## PAROC PALLET HOODS



### Application

- Protective, waterproof hood ideal for covering pallets against dirt, moisture and dust

Length mm	Width mm	Max. pallet size in mm	PU
1600	1200	1200 x 1200	10
2900	3300	2300 x 1150 und 2400 x 1000	1

## PAROC PRO KNIFE – XTK 001



- Particularly suitable for cutting PAROC products (Clad systems)
- Number scale on the blade (determination of insulation thickness)

Blade	Grind blade	Item
approx.300 mm	Serrated edge (serrated)	XTK 001

## PAROC PRO KNIFE – XTK 003



- Suitable for cutting PAROC products
- Number scale on the blade (determination of insulation thickness)

Blade	Grind blade	Item
approx.300 mm	Smooth finish	XTK 003

## PAROC SPATULA

Plastic spatula for supporting pressure and for optical smoothing of the tape



Length mm	Width mm	PU Pieces / box
100	70	20



# ACCESSORIES

## PAROC HEAD PINS INSULATED



### Application

- Fastening of PAROC products

### Technical specifications

- Pin made of St37 copper-plated and insulated
- Plate made of St37 galvanized

Length mm	Plate diameter [mm]	Number of pieces/box
19.0	30	1000
22.2	30	1000
28.5	30	1000
30.5	30	1000
38.0	30	1000
41.0	30	1000
47.6	30	1000
50.0	30	1000
54.0	30	1000
58.0	30	1000
60.5	30	1000
62.0	30	1000
68.0	30	500
72.0	30	500
78.0	30	500
89.0	30	500
98.5	30	500
101.6	30	500

## PAROC WELDING DEVICE



### Application

- The PAROC capacitor discharge welding device PPWD has been designed for welding directly through the insulation. With this, you will be able to fasten the insulation to a surface in a one process step.

Capacity	Energy supply	Welding time	Weight	Size	Warranty
132.000 µF	230 V, 10A fuse protection	from 1 to 3 ms	11 kg	430 mm x 165 mm x 180 mm	12 months

# CONTACT



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-  Paroc Production / Branch
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-  Paroc Sales Representative



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Marketing Manager Industry

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**DURABLE**

*PAROC® stands for energy-efficient and fire safe insulation solutions of stonewool for new and renovated buildings, marine and offshore, acoustics and other industrial applications. Behind those products, there is an 80-year history of stonewool production knowhow backed with technical insulation expertise and innovation.*



**REUSABLE**

*Building Insulation offering covers a wide range of products and solutions for all traditional building insulation. The building insulation products are mainly used for the thermal, fire and sound insulation of exterior walls, roofs, floors and basements, intermediate floors and partitions. Sound absorbing ceilings and wall panels for interior acoustic control, as well as industrial noise control products, are available in the range.*



**SOUND  
REDUCING**

*Technical Insulation offering includes thermal, fire and sound insulation in HVAC systems, industrial processes and pipework, industrial equipment as well as shipbuilding and offshore industry.*

*For more information please visit [www.paroc.com](http://www.paroc.com)*



**FIRE PROOF**



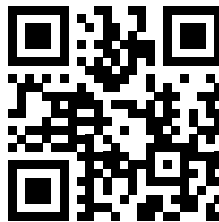
**MOISTURE  
PROOF**



**SAFE**



**ENERGY  
EFFICIENT**



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Applications: January 2023

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