MATERIAL DATA SHEET

RHEINZINK-prePATINA blue grey



- NATURAL SURFACE
- PICKLING PROCESS CREATES THE LOOK OF A REAL PATINA EX WORKS
- 40 YEARS QUALITY GUARANTEE
- SELF-HEALING OF SCRATCH MARKS
- MAINTENANCE FREE
- 100% RECYCLABILITY

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www.rheinzink.com



BASIC-INFORMATION

The RHEINZINK-prePATINA ECO ZINC product line is preweathered titanium zinc without phosphating, which allows the formation of a natural and durable zinc carbonate layer (patina). The colour effect results from the metal alloy itself, which is created by the unique RHEINZINK pickling process and and comes very close to the later natural patina formation on the building.

Specific weight 7.2 g/cm³ Building material class A1 (non-combustible) Titanium zinc according to DIN EN 988

DELIVERY FORM

Standard widths Standard thicknesses

Protective film Coil inner diameter 333 - 400 - 500 - 570 600 - 670 - 700 - 800 - 1000 mm 0.65 - 0.70 - 0.80 - 1.00 mm 1.20 - 1.50 mm on request On request 508 mm at > 500 kg 300 - 400 mm at < 500 kg

IMPORTANT INSTALLATION INSTRUCTIONS

Bending radius	Minimum 1.75 mm
Soldering recommendation	from 1.00 mm on 1.75 x t Soldering flux "ZD-pro" or "Power surface" (company Felder),
	overlap area 10 to 15 mm
Processing temperature	Warming up in temperatures below 10°C
Protective film	Remove the film immediately after after assembly

Note:

In the event of contamination due to external or environmental influences, please request the RHEINZINK cleaning recommendations. With these recommendations, RHEINZINK cannot guarantee that a new look will be created.

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ALLOY

Zinc Copper Titanium Aluminum 99.995% (Z1 according to DIN EN 1179) 0.10 – 0.18% 0.06 – 0.12% ≤ 0.015%

CERTIFICATION

Quality management Environmental management Energy management Environmental product declaration Certified according to ISO 9001 Certified according to ISO 14001 Certified according to ISO 50001 Verified according to ISO 14025, TYPE III and EN 15804

MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% proof stress (Rp0.2) Tensile strength (Rm) Breaking elongation (A50) Vickers hardness (HV3) Folding test Bending up after folding test Erichsen cupping Permanent elongation in creep (Rp0.1) ≥ 110 N/ mm² ≥ 150 N/ mm² ≥ 40% ≥ 45 No cracks on the bending edge No cracks after bending up ≥ 8.0 mm

≤ 0.1%

PHYSICAL AND CHEMICAL PROPERTIES

Melting point / range Boiling point / range Recrystallization limit Density at 20 °C Elasticity modulus Expansion coefficient In the longitudinal direction In the rolling transverse Thermal conductivity Specific heat capacity Electrical conductivity Viscosity

420 °C 906 °C > 300 °C 7.2 g/ cm³ ≥ 80.000 N/ mm²

22·10-6 K⁻¹ 17·10-6 K⁻¹ 110 W/m·K 398 J/kg/K 17 m/Ω·mm² Dynamic at 500 °C: 0,0030 mPa·s

RAL-Colour*

RAL 7045

* Colour values are approximate values in the as-delivered condition, deviations in the surface treatment process and due to natural patina formation are possible.

