MATERIAL DATA SHEET

RHEINZINK-prePATINA ECO ZINC graphite-grey



- NATURAL SURFACE
- PICKLING PROCESS CREATES THE LOOK OF A REAL PATINA EX WORKS
- SELF-HEALING OF SCRATCH MARKS
- 100% RECYCLABILITY

RHEINZINK GmbH & Co. KG Bahnhofstraße 90 45711 Datteln · Germany Tel.: +49 2363 605-490 E-Mail: info@rheinzink.com

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 color effect results from the metal alloy itself. A higher copper content creates a darker surface in the unique RHEINZINK pickling process. In this way the "graphite-grey"color can be produced ex work. During the natural patina formation, there may be a slight greenish color change and the surface may lighten slightly.

Specific weight 7.2 g/cm³ Building material class A1 (non-combustible) Titanium zinc according to DIN EN 988 Meets ASTM B69-21 Architectural Rolled Zinc Type 2

DELIVERY FORM

Standard widths Standard thicknesses

Coil inner diameter

Protective film

500 – 1000 mm 0.70 – 0.80 – 1.0 mm 1.2 mm on request On request 508 mm as of 1000 kg

IMPORTANT INSTALLATION INSTRUCTIONS

Bending radius	Minimum 1.75 mm from 1.00 mm on 1.75 x t
Soldering recommendation	Soldering flux "ZD-Pro" (company FELDER) or architectural zinc compatible flux
Processing temperature	Overlap area 10 to 15 mm 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 the appearance will be as good as new.

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ALLOY

Zinc Copper Titanium Aluminium 99.995% (Z1 according DIN EN 1179) 0.80 – 1.00% 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 Certified according to ISO 14025, TYP III and EN 15804

MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% yield strength (Rp0.2) Tensile strength (Rm) Breaking elongation (A50) Vickers hardness (HV3) Folding tensile test Erichsen cupping ≥ 100 N/mm² ≥ 150 N/mm² ≥ 35% ≥ 45 ≥ 0.7 ≥ 8.0 mm

PHYSICAL AND CHEMICAL PROPERTIES

Melting point / range Boiling point / range	420 °C 906 °C
Recrystallization limit	> 300 °C
Density at 20 °C	7.2 g/ cm ³
Elasticity modulus	≥ 80.000 N/ mm ²
Expansion coefficient	
In the longitudinal direction	2.2 mm/m x 100 K
In the rolling transverse	
direction	1.7 mm/m x 100 K
Thermal conductivity	110 W/m·K
Specific heat capacity	398 J/ kg/ K

RAL color *

DrePATINA ECO ZINC

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

RAL 7043

