MATERIAL DATA SHEET

RHEINZINK-CLASSIC



- NANATURAL SURFACE
- NATURAL PATINA FORMATION
- 30 YEARS QUALITY GUARANTEE
- SELF-HEALING OF SCRATCH MARKS
- MAINTENANCE FREE
- 100% RECYCLABILITY

RHEINZINK GmbH & Co. KG Bahnhofstraße 90 45711 Datteln · Germany Tel.: +49 2363 605-490 Fax: +49 2363 605-291 E-Mail: info@rheinzink.com

www.rheinzink.com



BASIC-INFORMATION

The bright-rolled titanium-zinc alloy has proven itself for over 50 years. Depending on the climatic conditions, the natural, metallically shiny surface develops the typical blue-grey patina over time after assembly. The formation of this natural protective layer is responsible for the high corrosion resistance of zinc. The bright-rolled surface gradually becomes more and more charismatic through the formation of the patina and develops a very individual character.

Specific weight 7.2 g/cm³ Building material class A1 (non-combustible) Titanium zinc according to DIN EN 988 Certified according to QUALITY ZINC, TÜV Rheinland

DELIVERY FORM

Standard widths	200 - 250 - 333 - 400 - 500 - 570 600 - 670 - 700 - 800 - 1000 mm
Standard thicknesses Protective film Coil inner diameter	0,65 – 0,70 – 0,80 – 1,00 mm On request 508 mm at > 500 kg 400 mm at < 500 kg

IMPORTANT INSTALLATION INSTRUCTIONS

Bending radius Soldering recommendation	Minimum 1.75 mm Soldering flux "ZD-pro" (company
Processing temperature	Felder), overlap area 10 to 15 mm Warming up in te peratures
	below 10°C
Protective film	Remove the film mediately 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 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

External monitoring 4

4 times per year by TÜV Rheinland

MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% proof stress (Rp0.2) Tensile strength (Rm) Breaking elongation (A50) Vickers hardness (HV3) Fold tensile force test* Erichsen cupping Longitudinal curvature Flatness Permanent elongation in creep (Rp0.1) ≥ 110 N/ mm²
≥ 150 N/ mm²
≥ 40%
≥ 45
D ≥ 0.7
≥ 8.0 mm
≤ 1.0 mm/ m
≤ 1.5 mm wave height
≤ 0.1%

*D = (tensile strength of folding sample) / (tensile strength of material)

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