MATERIAL DATA SHEET

RHEINZINK-CLASSIC
bright-rolled

- **NATURAL SURFACE**
- **NATURAL PATINA FORMATION**
- **SELF-HEALING OF SCRATCH MARKS**
- **LOW MAINTENANCE**
- **100% RECYCLABILITY**

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RHEINZINK®

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
Meets ASTM B69-21 Architectural Rolled Zinc Type 1

DELIVERY FORM

Standard widths	500 – 1000 mm
Standard thicknesses	0,70 – 0,80 – 1,00 mm 1,20 – 1,50 mm on request
Protective film	On request
Coil inner diameter	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 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 the appearance will be as good as new.

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CLASSIC

ALLOY

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

CERTIFICATION

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

MECHANICAL-TECHNOLOGICAL PROPERTIES

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

PHYSICAL AND CHEMICAL PROPERTIES

Melting point / range	420 °C
Boiling point / range	906 °C
Recrystallization limit	> 300 °C
Density at 20 °C	7.2 g/ cm³
Elasticity modulus	≥ 80.000 N/ mm²
Expansion coefficient	
In the longitudinal direction	2.2 mm/m x 100 K
In the rolling transverse direction	1.7mm/m x 100 K
Thermal conductivity	110 W/m·K
Specific heat capacity	398 J/ kg/ K

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