

MATERIAL DATA SHEET

Special coating proROOFING
for RHEINZINK-GRANUM



- **BACKSIDE PROTECTION AGAINST ZINC HYDROXIDE**
- **PROTECTION AGAINST NEGATIVE, BUILDING PHYSICAL INFLUENCES THROUGH SPECIAL CLIMATE CONDITIONS**
- **LEAD-FREE, FREE FROM CADMIUM AND CHROME-VI-COMPONENTS**

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BASIC-INFORMATION

proROOFING for RHEINZINK GRANUM is a special coating that is applied on the backside after the phosphating process in the coil coating line. The organic special coating proROOFING protects the GRANUM surfaces on the backside from zinc hydroxide formation due to temporarily moisture during storage and transport. The special coating is also a reliable protection against negative building physics influences due to special climatic conditions. There is expressly no corrosion protection in the case of failures in the manual application or incorrect choice of detailing during planning and the resulting water penetration into the construction.

Specific weight 7.2 g/cm³

Building material class A2 (non-combustible)

Titanium zinc according to DIN EN 988

DELIVERY FORM

Maximum width	1000 mm
Maximum thickness	1.0 mm
Minimum order quantity	5000 kg per thickness and width
Protective film	Standard
Coil inside diameter	508 mm at > 500 kg 400 mm at < 500 kg

IMPORTANT INSTALLATION INSTRUCTIONS

Bending radius	Three times the material thickness, minimum 1,75 mm
Soldering recommendation	Soldering flux "ZD-pro"(company Felder), Remove the coating abrasively, Overlap area 10 to 15 mm
Processing temperature	Warming up in temperatures below 10°C
Protective film	Remove the film immediately 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	99.995% (Z1 according DIN EN 1179)
Copper	0.10 – 0.20%
Titanium	0.07 – 0.12%
Aluminum	≤ 0.015%

CERTIFICATION

Quality management	Certified according to EN 988
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MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% proof stress (Rp0.2)	≥ 110 N/mm ²
Tensile strength (Rm)	≥ 150 N/mm ²
Breaking elongation (A50)	≥ 40%
Vickers hardness (HV3)	≥ 45
Folding test	No cracks on the bending edge
Bending back after folding test	No cracks after bend break
Erichsen cupping	≥ 8.0 mm
Permanent elongation in creep (Rp0.1)	≤ 0.1%

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/cm ³
Expansion coefficient	
In the longitudinal direction	22·10 ⁻⁶ K ⁻¹
In the rolling transverse	17·10 ⁻⁶ K ⁻¹
Thermal conductivity	110 W/m·K
Electrical conductivity	17 m/Ω·mm ²