# MATERIAL-DATA SHEET

RHEINZINK-GRANUM basalte



- DARK PHOSPHATED SURFACE
- NOBLE, MATT LOOK WITH ZINC TYPICAL STRUCTURE
- DURABLE AND WEATHER RESISTANT
- 30 YEAR QUALITY GUARANTEE
- EXCELLENT PROCESSABILITY

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# **BASIC-INFORMATION**

The RHEINZINK-GRANUM product line stands for a noble, matt appearance. Characteristic for GRANUM is its durable phosphate coating, which gives an idea of the zinc-typical structure of natural patina. GRANUM-basalte is the dark phosphated surface variation, which presents itself puristic and timeless in its dark grey, almost black version. The environmentally friendly material offers weatherresistant protection for an everlasting aesthetic.

Specific weight 7.2 g/cm<sup>3</sup> Building material class A1 (non-combustible) Titanium zinc according to DIN EN 988

# **DELIVERY FORM**

Standard widths Standard thicknesses Protective film Coil inner diameter 500 – 600 – 650 – 670 – 1000 mm 0.65 – 0.70 – 0.80 – 1.00 mm Standard 508 mm at > 500 kg 400 mm at < 500 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), 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
Copper
Titanium
Aluminum

99.995% (Z1 according DIN EN 1179) 0.10 – 0.20% 0.07 – 0.12% ≤ 0.015%

### CERTIFICATION

Quality management

Certified according to EN 988

# MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% proof stress (Rp0.2) $\geq 110$  NTensile strength (Rm) $\geq 150$  NBreaking elongation (A50) $\geq 40\%$ Vickers hardness (HV3) $\geq 45$ Folding testno cracBending back after folding testno cracErichsen cupping $\geq 8.0$  mPermanent elongation in creep $\leq 0.1\%$ (Rp0.1) $\geq$ 

≥ 110 N/ mm<sup>2</sup>
≥ 150 N/ mm<sup>2</sup>
≥ 40%
≥ 45
no cracks on the bending edge
no cracks after bend break
≥ 8.0 mm
≤ 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∕ cm³
Expansion coefficient	
In the longitudinal direction	22·10-6 K <sup>-1</sup>
In the rolling transverse	17·10-6 K⁻¹
direction	
Thermal conductivity	110 W/m·K
Electrical conductivity	$17 \text{ m}/\Omega \cdot \text{mm}^2$
,	

RAL colour\* RAL 9011

**GRANUM** baslate

\* Color values are approximate values in the delivery condition, deviations in the surface treatment process are possible.

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