MATERIAL-DATA SHEET

RHEINZINK-GRANUM basalte







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



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 weather-resistant protection for an everlasting aesthetic.

Specific weight 7.2 g/cm³
Building material class A1 (non-combustible)
Titanium zinc according to DIN EN 988

DELIVERY FORM

Standard widths 500 - 600 - 650 - 670 - 1000 mm

Standard thicknesses 0.65 - 0.70 - 0.80 - 1.00 mm

Protective film Standard

Coil inner diameter 508 mm at > 500 kg400 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

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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 $\leq 0.015\%$

CERTIFICATION

Quality management Certified according to EN 988

MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% proof stress (Rp0.2) $\geq 110 \text{ N/mm}^2$ Tensile strength (Rm) $\geq 150 \text{ N/mm}^2$ Breaking elongation (A50) $\geq 40\%$

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 $\geq 8.0 \text{ mm}$ Permanent elongation in creep $\leq 0.1\%$

(Rp0.1)

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⁻¹ In the rolling transverse 17·10-6 K⁻¹

direction

Thermal conductivity 110 W/m·K Electrical conductivity 17 m/ Ω ·mm²

RAL colour* RAL 9011

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