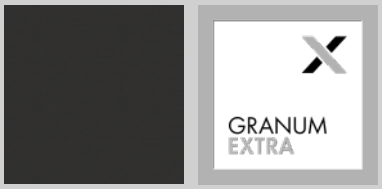
MATERIAL DATA SHEET

RHEINZINK-GRANUM EXTRA basalte





- **NOBLE, DARK SURFACE, MATT LOOK**
- **EXCELLENT CORROSION RESISTANCE**
- **DURABLE AND WEATHER-RESISTANT**
- **EXTRAORDINARY COLOUR STABILITY**

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BASIC-INFORMATION

The RHEINZINK-GRANUM EXTRA product line stands for an noble, matt appearance. GRANUM EXTRA is characterised by its durable coating with exceptional colour stability and outstanding corrosion resistance. GRANUM EXTRA basalte is the dark surface variant with a puristic and timeless dark grey, almost black appearance. The material offers weather-resistant protection for a consistant 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 – 670 – 1000 mm
Standard thicknesses	0.70 – 0.80 mm – 1.00 mm
Protective film	Standard
Coil inner diameter	508 mm at ≥ 500 kg 300 mm at < 500 kg

IMPORTANT INSTALLATION INSTRUCTIONS

Bending radius	Minimum 1.75 mm, from 1.00 mm on 1.75 x t
Soldering recommendation	„Lösemittel EXTRA" (company FELDER) Removal of the coating with cleaning fleece Soldering flux „ZD-Pro" (company FELDER) overlap area 40 mm, Solder seam width 10 to 15 mm
Processing temperature	For sudden forming below 10°C outside temperature, heating by hot air dryer
Protective film	Remove the film immediately after installation

Note:
Please request the RHEINZINK cleaning recommendations in the event of soiling caused by external influences or the environment. With these recommendations, RHEINZINK cannot guarantee that the appearance will be as good as new.

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BASALTE

ALLOY

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

CERTIFICATION

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

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	7.2 g/ cm³
Expansion coefficient	
In the longitudinal direction	2,2 mm/m x 100 K
In the rolling transverse direction	1,7 mm/m x 100 K
Thermal conductivity	110 W/m · K
Specific thermal capacity	398 J/kg/K

COATING PROPERTIES

Corrosivity category according to DIN EN ISO 12 944-2	C5
RAL-colour*	RAL 7021 Black grey

* Colour tone values are approximate values in the as-delivered condition, deviations in the surface.

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