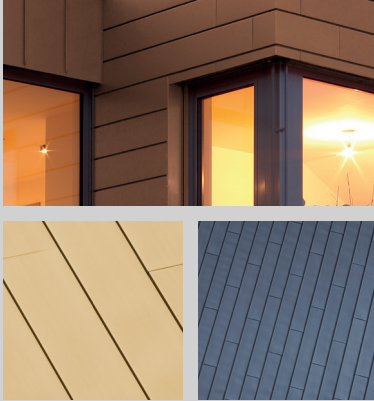


MATERIAL DATA SHEET

RHEINZINK-PRISMO



- **COLOURED COATING WITH NATURAL TOUCH**
- **VISIBLE ZINC-TYPICAL STRUCTURE**
- **DURABLE AND WEATHER RESISTANT**
- **30 YEARS WARRANTY**

BASIC-INFORMATION

RHEINZINK-PRISMO is a colour glazed coating, through which the zinc-typical structure remains visible. A total of six colour variations open up a wide range of application and design possibilities for façades and roofs. At the same time, the color-pigmented surface offers resistant protection against various climatic and environmental influences.

Specific weight 7.2 g/cm³
 Building material class A2 (non-combustible)
 Titanium zinc according to DIN EN 988

DELIVERY FORM

* Standard colors	red	(RAL 8025)
	gold	(RAL 1024)
	green	(RAL 7009)
	brown	(RAL 8028)
Standard widths	500 - 575 - 600 mm	
Standard thickness	0.70 - 0.80 mm	
	on request 1.00 mm	
Min. order quantity sheets	250 kg	
Min. order quantity coils	600 kg	
Protection film	Standard	
Coil inner diameter	508 mm at > 500 kg	
	300 mm at < 500 kg	

* Production-related colour deviations are possible.

IMPORTANT INSTALLATION INSTRUCTIONS

Bending radius	Three times material thickness
Soldering recommendation	Soldering flux "ZD-pro" or "Power surface" (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.

MATERIAL DATA SHEET

RHEINZINK-PRISMO



PRISMO blue

PRISMO black

PRISMO brown

PRISMO gold

PRISMO green

PRISMO red

PRISMO

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 ISO 9001
Environmental product declaration	Verified according to ISO 14025, TYPE III and EN 15804 (Base material)

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	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
Viscosity	dynamic at 500 °C: 0,0030 mPa·s

COATING PROPERTIES

Coating top side	PU, 35 µm
Coating back side	colour coating, 5 µm
Corrosivity category according to DIN EN ISO 12 944-6	C5 very high

RHEINZINK GmbH & Co.KG
Bahnhofstraße 90
45711 Datteln · Germany
Tel.: +49 2363 605-490
Fax: +49 2363 605-291
E-Mail: info@rhein-zink.de

www.rhein-zink.com