

# MATERIAL DATA SHEET

## RHEINZINK-PRISMO



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

### BASIC-INFORMATION

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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/cm<sup>3</sup>

Building material class A2 (non-combustible)

Titanium zinc according to DIN EN 988

### DELIVERY FORM

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Standard colors	black	(RAL 9004)
(RAL information is	red	(RAL 8025)
Approximations)	gold	(RAL 1024)
	green	(RAL 7009)
	brown	(RAL 8028)
	blue	(RAL 7031)
Maximum width	1000 mm	
Maximum thickness	1.0 mm	
Minimum order quantity	5000 kg per thickness	
Protective film	Standard	
Coil inside diameter	508 mm at > 500 kg	
	400 mm at < 500 kg	

### IMPORTANT INSTALLATION INSTRUCTIONS

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Bending radius	Three times the material thickness
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.*

# 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 988
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## MECHANICAL-TECHNOLOGICAL PROPERTIES

0.2% proof stress (Rp0.2)	≥ 110 N/ mm <sup>2</sup>
Tensile strength (Rm)	≥ 150 N/ mm <sup>2</sup>
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 <sup>3</sup>
Expansion coefficient	
In the longitudinal direction	22·10 <sup>-6</sup> K <sup>-1</sup>
In the rolling transverse	17·10 <sup>-6</sup> K <sup>-1</sup>
Thermal conductivity	110 W/ m · K
Electrical conductivity	17 m/Ω · mm <sup>2</sup>
Viscosity	dynamic at 500 °C: 0,0030 mPa·s

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