

# MATERIAL DATA SHEET

## RHEINZINK-PRISMO

brushed white<sup>+</sup>



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

## BASIC-INFORMATION

RHEINZINK-PRISMO brushed white<sup>+</sup> is an innovative, white glazed material surface especially developed for architects. With its neutral appearance, it offers a timeless aesthetic that can be seamlessly integrated into various design concepts. Thanks to its high solar reflective properties, it contributes to the energy efficiency of buildings by significantly reducing heat absorption. The material surface is produced using a two-layer passivation coating process on a bright-rolled substrate. The product is resistant to sea climate and patinates partially and evenly. A pretreatment is applied evenly as a passivation process. A subsequent pressure coating is white due to titanium dioxide pigmentation and has an anti-corrosive effect. It offers reliable protection against the challenges of climatic and environmental influences, which ensures its durability and low maintenance. In addition, it offers reliable protection against the challenges of climatic and environmental influences, ensuring durability and low maintenance.

Specific weight 7.2 g/cm<sup>3</sup>

Building material class A2 (non-combustible)

Titanium zinc according to DIN EN 988

## DELIVERY FORM

Standard widths	500 – 1000 mm
Standard thicknesses	0.80 mm
Min. order quantity sheets	250 kg
Min. order quantity coils	600 kg
Protection film	none
Coil inner diameter	508 mm at > 500 kg 300 mm at < 500 kg

## 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

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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brushed white<sup>+</sup>

PRISMO brushed white<sup>+</sup>

PRISMO gold

PRISMO green

PRISMO red



## ALLOY

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

## CERTIFICATION

Quality management	Certified according to ISO 9001
Environmental product declaration	Certified according to ISO 14025, TYP III and EN 15804 (Base material)

## 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 up after folding	No cracks after bending 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>
Modulus of elasticity	≥ 80.000 N/ mm <sup>2</sup>
Expansion coefficient	
In the longitudinal direction	22·10-6 K <sup>-1</sup>
In the rolling transverse	17·10-6 K <sup>-1</sup>
Thermal conductivity	110 W/m·K
Specific heat capacity	398 J/ kg/ K
Electrical conductivity	17 m/Ω·mm <sup>2</sup>
Viscosity	dynamic at 500 °C: 0,0030 mPa·s

## COATING PROPERTIES

Corrosivity category according to DIN EN ISO 12 944-6	C5 very high
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