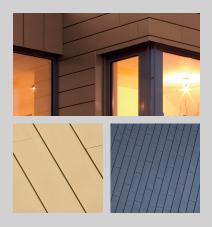


# MATERIAL DATA SHEET

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/cm<sup>3</sup>
Building material class A2 (non-combustible)
Titanium zinc according to DIN EN 988

### **DELIVERY FORM**

| 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 and width |            |
| Protective film        | Standard                        |            |
| Coil inside diameter   | 508  mm at > 500  kg            |            |
|                        | 400  mm at < 500  kg            |            |

# IMPORTANT INSTALLATION INSTRUCTIONS

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

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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.

# MATERIAL **DATA SHEET**

RHEINZINK-PRISMO

**ALLOY** 

99.995% (Z1 according DIN EN 1179) Zinc

0.10 - 0.20%Copper Titanium 0.07 - 0.12%Aluminum ≤ 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) Breaking elongation (A50) ≥ 40%

Vickers hardness (HV3) ≥ 45 Folding test

Bending back after folding

Erichsen cupping Permanent elongation in

creep (Rp0.1)

 $\geq 150 \text{ N/mm}^2$ 

no cracks on the bending edge no cracks after bend break

≥ 8.0 mm ≤ 0.1%

### PHYSICAL AND CHEMICAL PROPERTIES

420 °C Melting point / range 906 °C Boiling point / range Recrystallization limit > 300 °C  $7,2 \text{ g/cm}^3$ Density at 20 °C

Expansion coefficient

In the longitudinal direction 22·10-6 K-1 17·10-6 K<sup>-1</sup> In the rolling transverse 110 W/m·K Thermal conductivity  $17 \text{ m/}\Omega \cdot \text{mm}^2$ Electrical conductivity

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

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