

## PRODUCT SPECIFICATION – RHEINZINK® TITANIUM-ZINC

### Material

RHEINZINK® is an alloy of electrolytically refined zinc with a 99.995% degree of purity and accurately defined parts of copper and titanium. In a single continuous operation, the raw material is melted, cast and wound onto a steel coil. The quality of the material is consistent and flawless.

### Manufacturing Technology

The RHEINZINK® alloy is processed on a wide-strip casting and rolling mill in a continuous cycle - smelting, casting, rolling, and winding - into coils of various material thicknesses.

### Surface Quality

RHEINZINK® is available in two different surfaces:

#### **1. RHEINZINK® -Bright Rolled**

This is the conventional material for all sheet metal work using standing seam and soldering techniques. A patina, which is formed naturally through weathering, protects the material and consequently, service and maintenance are no longer required. The patina formation standardises the blue-grey colour of titanium zinc.

#### **2. RHEINZINK® -"Pre-weathered" Blue-Grey**

"Pre-weathering", which is done in-house, ensures the immediate blue-grey surface look of the RHEINZINK® material. RHEINZINK® "Pre-weathered" Blue Grey is recommended for aesthetically ambitious roofing and façade surfaces, copings and roof drainage systems.

### Material Properties

- Density (specific gravity) 7.2 g/cm<sup>3</sup>
- Melting point 418° C
- Recrystallization limit > 300° C
- Expansion co-efficient in rolling direction and longitudinal direction: 2.2 mm/m x 100K
- Metal thickness 0.7mm. For other thickness, please contact our distributor, LCP Building Products Pte Ltd

### Roofing and Walling Profiles

With its extensive offering of roof and façade systems, whether profile technology or sheet metal work technology, RHEINZINK® offers fully developed solutions for various applications. Due to its special processing properties, an unusually large variety of shapes is available for the aesthetic design of buildings. Various profiles in Standing Seams and Interlocking Tiles, suitable for roofing and walling applications are available. For more information on the appropriate profiles, please contact our distributor, LCP Building Products Pte Ltd.