Din Standards and Mechanical Properties

RHEINZINK® is manufactured to exceed the requirements of Euro-Norm Standard DIN EN 988 (formerly DIN 17770), which prescribes certain minimum material properties for titanium zinc. RHEINZINK® is constantly subject ed to quality control monitoring, internally according to DIN EN ISO 9001 requirements, and additionally by an external inspection by an accredited, independent institute (TÜV Rheinland), according to the "Quality Zinc" criteria.

The following chart outlines the mechanical and physical properties of RHEINZINK®:

Property	Metric	Imperial
Tensile Strength	min. 150 N/mm^2	min. 21.8 lb/in^2 x 10^3
Yield Strength	min. 110 N/mm^2	15.95 1b/in^2 x 10^3
Elasticity Modulus	80,000 N/mm^2	11.6 lb/in^2 x 10^3
Thermal Expansion Coefficient	0.022 mm/m°	12 in/in° F x 10-6
Melting Point	418° C	784° F
Re-crystallization Temperature	300° C	572° F

The standard width of coils and sheets for Blue Gray and Bright Rolled is 39.4" (1 meter), 24", and 19.7" (½ meter). Graphite Gray coils and sheets come in standard widths of 27.6" (700mm), 24", and 19.7" (½ meter). Non standard coil widths can be special ordered.

Metric (mm)	Imperial (inches)	Gauge (universal)	Weight in Pounds	Weight in Metric
0.7	0.028	24	1.03 lb / SQ FT	5.04 Kg / m^2
0.8	0.032	22	1.18lb / SQ FT	5.76 Kg / m^2
1.0	0.039	20	1.48lb / SQ FT	7.20 Kg / m^2
1.2	0.047	18	1.77lb / SQ FT	8.6 Kg / m^2
*1.5	0.059	16	2.21lb / SQ FT	10.80 Kg / m^2

**Not available in Graphite Gray*