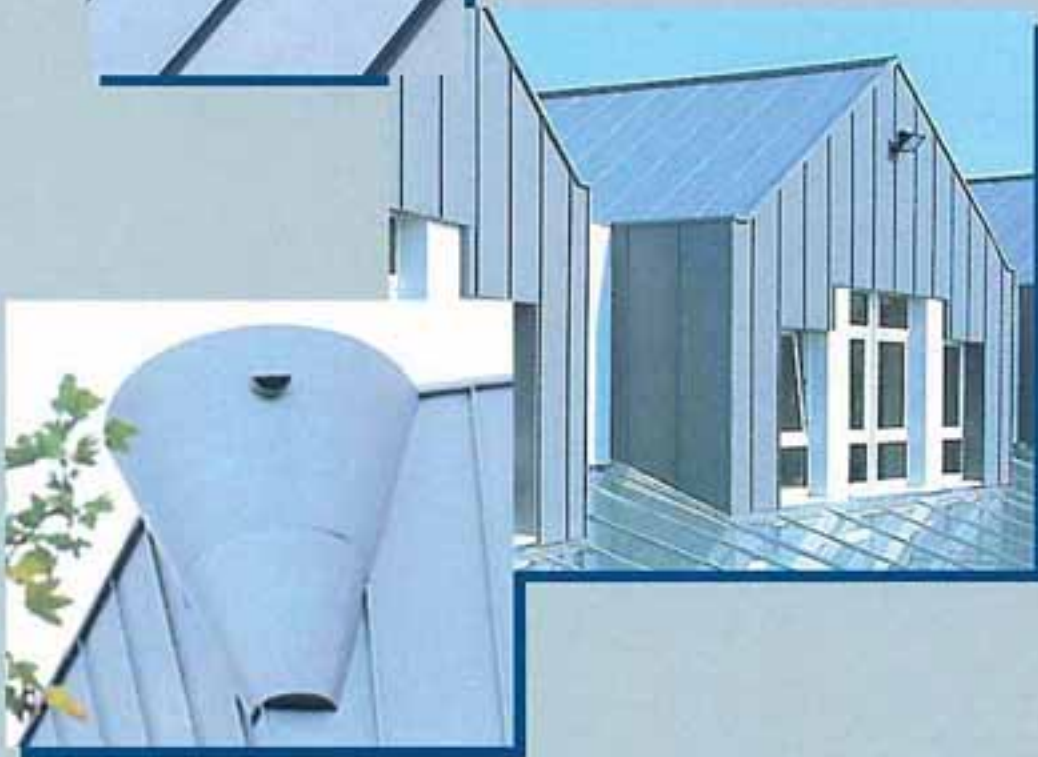


ZINC



ZINC ALLOY DATA

Titanium enhanced

As a non-ferrous metal, Zinc is naturally self protecting, forming its own attractive light grey patina over time. It does not rust and has a remarkable resistance to corrosion:

90 to 100 years in rural areas

40 to 60 years in urban areas

40 to 70 years in coastal areas and industrial environments

Its excellent creep resistance allows laying of roofs in areas with high temperature variations. Zinc offers durability and long-term cost-effectiveness, together with the potential for all types of working and shaping.

Ultimate life is proportional to the thickness chosen, the thicker the better.

NATURAL ZINC

NATURAL ZINC initially has a shiny metallic appearance, which changes to a natural semi-mat, light grey patina as it is exposed to its environment.

ALTERNATIVE FINISHES

ANTHRA-ZINC

ANTHRA-ZINC is pre-weathered to provide the appearance of the natural patina at the time that the product is laid. **ANTHRA-ZINC** is pre-weathered to an anthracite grey, close to the colour of slate.

QUARTZ ZINC

QUARTZ-ZINC is pre-weathered to provide the appearance of the natural patina at the time that the product is laid. **QUARTZ-ZINC** is pre-weathered to a light grey colour.

ZINC PLUS

ZINC PLUS has a protective paint to increase corrosion resistance due to humidity. The underside of the zinc roofing goes through the powder process for an additional layer of protection.

LACQUERED ZINC

LACQUERED ZINC has a polyester powdercoat finish which offers a range of colours for roofs and sidings entirely suitable for even the most severe bending or profiling requirements.

ZINC SHEET

LENGTH x WIDTH SHEET THICKNESS (mm) OVER WEIGHT (kgs/sht)

	0.60 mm	0.80 mm	1.00 mm
2000 x 1000	8.64	11.52	14.40

Natural ZINC

ANTHRA, QUARTZ, ZINC PLUS and LACQUERED available on indent.



ZINC COIL

MAXIMUM WIDTH COIL THICKNESS (mm) OVER WEIGHT (kgs/m²)

	0.60 mm	0.65 mm	0.70 mm	0.80 mm	1.00 mm
1000	4.32	4.68	5.04	5.76	7.20

Coil available on indent only.
Other widths also available.



LACQUERED ZINC is available in widths of 500mm and 650mm.

Lacquered Zinc is available in four standard colours:

- Sky Blue
- Copper Green
- Brown
- Slate Grey

Other powdercoats for Lacquered Zinc are available on request, minimum quantities apply.

Zinc can be used to form roof accessories such as guttering, flashing, ridgings and ornaments.

All weights are theoretical and may vary in practice.

MECHANICAL PROPERTIES

Nearest relevant specifications

British	BS 6561A
German	DIN 17770

Chemical Composition

Zinc	Remainder
Copper	.08 - 1.0%
Titanium	.07 - 0.20%
Aluminium	0.0 - .015%

Approximate Mechanical Properties

Ultimate Tensile Strength Mpa	170
Ultimate Yield Strength Mpa	220
Elongation	35%
Breaking Tension, across the direction of rolling (N/mm ²)	20%
Hardness Brinell	40
Hardness Vickers	40
Modulus of elasticity Mpa x 10 ³ in rolling direction	64
Modulus of elasticity Mpa x 10 ³ perpendicular to rolling direction	88

Approximate Physical Properties

Melting Point °C	420
Density kg/dm ³	7.2
Expansion mm/ m°C	0.022
Electrical conductivity at 20°C	17 MS/m
Electrical resistivity at 20°C	5.88
Thermal conductivity at 25°C	110W/(m.K)

Fabrication Properties

Corrosion Resistance	Excellent
Machining	Excellent
Brazing	Excellent
Cold Forming Temp < 7°C	Not Rec.
Cold Forming Temp ≥ 7°C+	Excellent
Gas Welding	Good
Inert Gas Welding TIG	Excellent
Inert Gas Welding MIG	Good
Resistance Spot welding	Fair
Soldering	Excellent

ZINC DENSITY TABLE

Rolled Product

Sheet/Coil	Multiply length (m) x width (m) x thickness (mm) by	7.20
------------	---	------

All weights are theoretical and may vary in practice.