

Zinc properties

RSC TECHNICAL BULLETIN



ZINC - A VERSATILE CHOICE FOR BUILDING AND ROOFING PRODUCTS

Zincalume is a coated steel product made from a blend of 55% aluminium, 43.5% zinc, and 1.5% silicon. This aluminium-zinc alloy coating gives the zinc products excellent corrosion resistance and therefore a long lifespan, making zinc a popular choice for roofing, cladding, and general sheetmetal fabrication.

MATERIAL PROPERTIES

PROPERTY	DESCRIPTION
Corrosion Resistance	- Up to 4× better than standard galvanised steel due to its alloy coating. - Performs especially well in harsh weather conditions.
Strength	Available in various grades offering strong structural performance for building applications.
Heat Reflectivity	- Reflective surface reduces heat absorption and improves energy efficiency - Solar Absorptance (SA) is typically between 0.50–0.60
Lifespan	- Highly resistant to rust, chipping, and flaking - Suitable for outdoor and coastal environments (except very severe marine zones).
Appearance	- Smooth, modern metallic finish with a blue-grey tone - Uniform appearance
Formability	Easy to fold, roll, and shape without cracking—ideal for custom fabrication

METAL COMPATIBILITY

Not all metals can be used together. So before choosing to use zinc products, please scan the QR code to view our Metal Compatibility Matrix and make sure you choose compatible material.



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