

Copper properties



CUSTOM FABRICATED COPPER PRODUCTS

Roofing & Sheetmetal Centre fabricate copper products used in roofing, building and architectural projects. Copper is a great choice of material with a beautiful colour that weathers over time.

Understanding the unique properties of copper can assist you with determining whether this metal is appropriate for your needs.

Roofing & Sheetmetal Centre make products such as rainwater products including gutters, downpipes, rainheads and leaf guards. Copper is a strong metal that has a high resistance to corrosion, and works well for roofing and plumbing products.

MATERIAL PROPERTIES

PROPERTY	DESCRIPTION
Corrosion Resistance	Develops a protective oxide that resists atmospheric corrosion and many chemicals
Moderate Strength	Moderate strength for architectural use; cold working can increase the strength and hardness
Good Ductility & Formability	Easily bent, rolled, stamped, and formed without damaging
High Thermal Conductivity	Efficient heat transfer making it a widely used material in heat-transfer applications
Antimicrobial Properties	Naturally inhibits bacterial growth, making it useful for hygienic surfaces
Aesthetic Appeal	Attractive natural colour that weathers to a brown or green patina
Recyclability	Can be recycled repeatedly without loss of performance or quality
Electrical Conductivity	One of the best metals for electrical conductors making it ideal for electrical applications

METAL COMPATIBILITY

Not all metals can be used together. So before choosing to use copper products, please refer to our Metal Compatibility Matrix to make sure you maximise your product lifespan.

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