

METAL ROOFING MATERIALS

PROS & CONS



PROS



CONS

GALVALUME

- ▶ Cost is among lowest in metal roofing (anywhere from \$75 to \$250 per 100 square feet)
- ▶ Comes with a variety of color options
- ▶ Studies show corrosion resistance for 60+ years
- ▶ Easy to rollform
- ▶ 100% recyclable
- ▶ Often able to be installed over existing roof
- ▶ Backed by warranties

- ▶ Oil canning is possible
- ▶ Paint system will fade over time
- ▶ Susceptible to chalking
- ▶ Can corrode quicker when in contact with dissimilar metals and materials (such as iron, copper, concrete, bricking, and treated lumber)

ALUMINUM

- ▶ Medium price point (anywhere from \$200 to \$575 per 100 square feet)
- ▶ Highly recyclable and often made from previously recycled materials
- ▶ Color options available
- ▶ Lightweight
- ▶ Strong
- ▶ Will not rust in coastal applications
- ▶ Abundant in the Earth's crust, making it readily available
- ▶ Often backed by warranties

- ▶ Natural color can become washed out or spotty over time
- ▶ Dents easier
- ▶ More susceptible to thermal movement
- ▶ Oil canning is possible

ZINC

- ▶ Can last anywhere from 60 to 100 years
- ▶ Eco-friendly
- ▶ Low toxicity levels
- ▶ Helps reduce the amount of energy absorbed into a structure
- ▶ Possesses a self-healing protective layer
- ▶ Easy to maintain
- ▶ Easy to rollform
- ▶ Patina develops naturally over time and protects the metal from corrosion

- ▶ Higher cost (anywhere from \$600 to \$900 per 100 square feet)
- ▶ Oil canning is possible
- ▶ Susceptible to underside corrosion if moisture becomes trapped underneath the panel
- ▶ Could fail if not properly ventilated
- ▶ Few contractors skilled in working with or installing zinc
- ▶ Manufacturer warranties often unclear with many exclusions

COPPER

- ▶ Lightweight
- ▶ Energy-efficient
- ▶ Durable for decades (100+ years in some instances)
- ▶ Aesthetically pleasing
- ▶ Recyclable
- ▶ Naturally sourced
- ▶ Solderable and works well as flashing and gutter joints

- ▶ Expensive (anywhere from \$500 to \$1,000 per 100 square feet)
- ▶ Susceptible to expansion and contraction
- ▶ Patina development can vary dramatically depending on environment (dark bronze to bright green)
- ▶ Run-off from the roof can stain other materials
- ▶ Oil canning is possible

STAINLESS STEEL

- ▶ Proven durability
- ▶ Withstands extreme weather and temperatures
- ▶ Low expansion and contraction
- ▶ Backed by warranties
- ▶ Variety of finish options
- ▶ Performs well in high wind environments when installed correctly

- ▶ Expensive (anywhere from \$400 to \$1,200 per 100 square feet)
- ▶ Standing water can lead to galvanic corrosion
- ▶ Limited color options
- ▶ Oil canning is possible