

METAL ROOFING vs. CONCRETE-BASED TILES & SHAKES



FOUR REASONS

metal **BEATS** concrete **EVERY TIME**

1. WEIGHT

Metal roofs weigh a fraction of concrete roofs, putting far less strain on any building's structure.

2. SAFETY

Roof collapse in a fire or earthquake is far less likely with metal roofing than with concrete roofs.

3. VARIETY

Metal roofs offer far more variety in terms of looks, styles and colors, which means more options for the homeowner.

4. PERFORMANCE

Concrete roofs become porous over time and require replacement - not the case with quality metal roofing.

did you KNOW?

The typical concrete-based tile or shake roof weighs an average of 36,000 pounds. That's 18 tons of roofing material above your head - not the safest option in any earthquake zone!



the major DRAWBACKS

As long a history as concrete and clay-based roofing products have, they have one major downside as a re-roofing option - and a few minor ones too. **First is their sheer weight**, which can necessitate the use of a structural engineer to be certain that a structure's design loads are not exceeded. Other problem areas? **This porous material is prone to fracture** when imbedded ice moves during heavy snow accumulations - which can result in premature replacement. **They're also easily damaged if you walk on them, perform poorly in high winds unless properly nailed, slipped and/or wired, and they're a downright hazard in an earthquake!**

METAL vs. CONCRETE

just the facts

	METAL	CONCRETE
LIGHTWEIGHT	EXCELLENT 1.4 lbs/sq ft	POOR 9-15 lbs/sq ft
FIRE	EXCELLENT	GOOD
WIND	EXCELLENT 120 mph wind warranty	FAIR requires nails, slips and/or wiring
HAIL	EXCELLENT hail warranty	GOOD
SNOW & ICE	EXCELLENT resilient interlocking design resists ice damming	POOR
EARTHQUAKE	EXCELLENT lightweight, increased strength	POOR
WEATHERING/WARRANTY	EXCELLENT limited lifetime warranty	GOOD
ENVIRONMENTAL	EXCELLENT no tear off required, recyclable	FAIR
RESALE VALUE	EXCELLENT	EXCELLENT

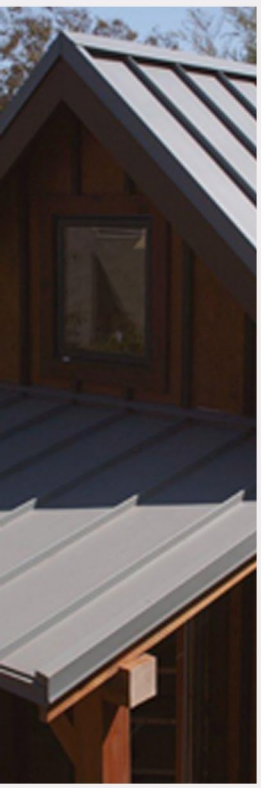


logistics, logistics

Unlike other roof coverings that are intended to be the primary water-proofing assembly, many concrete and clay-based roofs require a fully intact underlayment layer to remain completely waterproof. That's because of an installation detail in many high-profile assemblies where the intersection of main parts of the roof with detail pieces allows wind-driven rain and snow to get past the roof tiles. **And that can cause big problems.**

dollars and **S E N S E**

As with metal roofing, concrete and clay-based roofing materials come in average, good and premium price ranges. Typically, you can expect to pay somewhere between \$3 and \$12 per square foot, **which makes it a mid to high-range roofing material in terms of cost.** If your budget allows for a material in this price range, consider a product without the inherent drawbacks of concrete and clay-based roofing - **and save yourself the headache and extra cost down the road.**



other resources

Get more details about metal roofing and other popular types of roof materials with our **free booklet**, available for download at www.metalroofnet.com

Check out our metal & copper roofing blog, accessible from our website, for pictures, videos, useful commentary and more

Get all of your questions about your roof project answered - talk to our resident roof expert today! Just follow the link from our Why Metal page, www.metalroofnet.com/why-metal



Once cracked, concrete and clay-based roofing materials no longer remain waterproof **and stop functioning as a primary roof covering.**

the **B O T T O M** line

Concrete and clay-based roofs certainly have their place in the roofing world, but for a homeowner considering upgrading from asphalt shingles or wood shakes, metal offers better and more problem-free alternatives.