

## Preserving Historical Integrity

Thatched roofs were, and are, a way of life for some cultures. The Polynesian Cultural Center in Laie, Oahu, Hawaii needed a new roof for its signature entry building that was 23,500 square feet of thatch. High winds and heavy rains had taken a toll on the large thatched roof; the new roof needed to be durable, yet still maintain the cultural and historical integrity of the Center.

The Cultural Center had several smaller buildings throughout the grounds where different roofing materials were tested to determine which product would meet the goals of the project; DECRA Shake in Weathered Timber was chosen for several reasons.



### Emulating the Original Thatch

The stamped shake pattern on the steel resembled the random look of the thatched roof. The ceramic stone granules that protect the steel panel also provide texture so the roof does not appear flat, further emulating the original thatch and maintaining the cultural and historical integrity of the Center.

### Wind-Driven Rain

With DECRA stone-coated steel profiles there are no gaps in the interlocking system to scoop in wind and rain. DECRA steel roofing panels lock securely together and are fastened with corrosion-resistant stainless steel screws at the top to ensure that wind-driven rain can't penetrate to the underlying deck. DECRA has performed extensive wind-driven rain testing at speeds up to 110 mph to ensure adequate protection against water penetration under the most extreme wind conditions.

### Wind Uplift Resistance

DECRA stone-coated steel roofing profiles feature a unique interlocking panel system to keep the multi-layered high-grade steel panels firmly in place and locked down in hurricane-force winds. DECRA roofing profiles are backed by a warranty for winds up to 120 mph and are lab tested at twice that velocity to provide DECRA home and business owners with a 100% safety margin.

#### About DECRA Metal Roofing

*DECRA Metal Roofing has provided the first line of defense against the elements for homes and buildings for more than 60 years and is unsurpassed in every roofing product comparison category, from wind, fire, and impact resistance to energy efficiency and sustainability. With a Lifetime Limited Warranty that goes far beyond the 10 or 20-year warranties of asphalt roofing products, DECRA is the gold standard of modern roofing systems for architects, contractors, and homeowners who will settle for nothing less than the best.*