

**PRODUCT
DESCRIPTION**

NO. PD 592-1

STEEL vs ALUMINUM ROOFING

It is our considered opinion that steel roofing is far superior to aluminum roofing in quality because of its inherent strength and dent resistance. Steel carries a Class "A" Fire Rating whereas aluminum must rely upon fire-resistant underlayment or decking in order to achieve a Class "A" or "B" fire rating due to its low melting point.

With the advent of long-life paint finishes such as Full-Strength **Kynar 500®**, the Architect and Owner are assured of a 20-Year Warranted roof surface. At the Berridge Coil-Coating Lines, we add a primer to both sides of the G-90 Hot-Dipped Galvanized or **GALVALUME®** steel coil and finish the top side with a premium Fluorocarbon Coating which carries a full 20-year warranty against excessive chalking, fading or color change.

When the greatest amount of protection against corrosion or penetration of the metal substrate is required, Berridge recommends the use of a **GALVALUME®** substrate. **GALVALUME®** is an Aluminum-Zinc Alloy applied over steel, hence it has both the strength advantage of steel and the protective advantage of aluminum and zinc. **GALVALUME®** combined with **Kynar 500®** provide the Architect and Owner with dual coverage; A 20-Year Mill Warranty covering the surface integrity of the Aluminum-zinc Alloy material combined with a 20-Year Paint Warranty from Berridge.

Perhaps the strongest argument for using steel versus aluminum roof panel lies with architectural applications. Due to its low tensile strength and high degree of thermal expansion and contraction due to temperature variances, aluminum flat pan architectural roofing panels often exhibit an unacceptably high degree of waviness, distortion or "oil-canning". Foot traffic during and after initial roof panel installation is also more likely to cause damage to softer aluminum panels. Even over solid substrates, the use of steel versus aluminum roof panels is strongly advised if aesthetic failure is to be avoided.

GALVALUME® Is a registered tradename of BIEC International, Inc.
Kynar 500® Is a registered tradename of Atochem North America, Inc.

Steel vs Aluminum Roofing
Berridge Manufacturing Company



Moisture & Thermal Protection:
Metal Roofing & Siding Products



BERRIDGE MANUFACTURING COMPANY - *Roofs of Distinction*

6515 FRATT ROAD | SAN ANTONIO, TEXAS | 78218 | 210-650-3050 | 800-669-0009 | 210-650-0379 FAX | WWW.BERRIDGE.COM