

## RESIDENTIAL METAL ROOFING CASE STUDY



### KYNAR 500<sup>®</sup> BASED METAL COATINGS

Metal has rapidly become the material of choice for residential roofing and home builders are using it in new and bold ways. Metal is durable, energy saving, fire resistant, maintains its beauty far longer than other roofing materials and increases real estate value. Still, metal must be protected from weathering by a coating that will preserve its rich and vibrant appearance for many years. Premier metal finishes are based on KYNAR 500<sup>®</sup> PVDF resins from Arkema Inc. Since 1965, KYNAR 500<sup>®</sup> resin-based metal coatings have provided billions of square feet of protection against weathering, aging, and pollution on commercial, industrial, institutional, and residential buildings.

### RESIDENTIAL METAL ROOFING BASED ON KYNAR 500<sup>®</sup> FSF<sup>®</sup> PVDF RESINS

KYNAR 500<sup>®</sup> is a fluoropolymer (polyvinylidene fluoride) used by leading coating formulators as the basic vehicle in producing premium finishes for aluminum and galvanized steel. The liquid coating systems, based on KYNAR 500<sup>®</sup> fluoropolymer, are factory-applied and oven-fused to the properly prepared substrates. These premium finishes exhibit excellent color durability, appearance, flexibility, abrasion and fire resistance. Roofing components may be post-formed from coil-coated stock into many exciting shapes and sizes such as the standing seam roofing used in the project on back page.

**Project:**  
Lakeview Condo Association  
Enfield, NH

**Owner:**  
Lakeview Condo Association

**Contractor:**  
Simpson Development

**Size of Roof:**  
80,000 sq. ft. project  
Over 16 buildings

**Coating Applicator  
Metal Supplier:**  
ENGLERT Inc., Perth Amboy, NJ

**Roof Installed By:**  
JEI, Inc. doing business as  
Iron Horse Standing  
Seam Roofing Company  
Tunbridge, VT

**Coating Supplier:** BASF

**Built:** Retrofitted late 2004

## PROJECT PROFILE – LAKEVIEW CONDO ASSOCIATION, ENFIELD, NH



After with New Metal Roofing based on KYNAR 500® FSF®



Before with Old Asphalt tile roof

Metal roofing coated with a KYNAR 500® PVDF based finish was chosen to replace the weather damaged asphalt tiles on the Lakeview Condominiums to provide years of service with virtually no maintenance. The Lakeview Condo Association hired Simpson Development to give new life to the 16 buildings, each with 8 family units, located in Enfield, New Hampshire. KYNAR 500® based metal roofing has been widely used in severe weather areas to reduce snow loading while providing long-term durability and color retention. ENGLERT Inc. of Perth Amboy, NJ applied the Charcoal Permacolor finish to the 80,000 square feet of metal roofing fabricated onsite by JEI, Inc. doing business as Iron Horse Standing Seam Roofing. BASF's ULTRA-Cool coatings, based on KYNAR 500® PVDF resin, were used and meet Energy Star specifications for cool, energy-saving roofs. The coating system reflects heat away from the building while increasing the life expectancy of the roof by reducing the expansion and contraction that decreases structural integrity and eliminates oil canning of the metal surface.

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