

## KYNAR 500<sup>®</sup>FSF<sup>®</sup>

# Residential metal roofing Case Study

## BEAR MOUNTAIN PRIVATE RESIDENCE

PVDF-Based Coatings



# SUMMARY

# CASE STUDY

## PROJECT

Private residence, Bear Mountain, Killington, VT

## OWNER

Gordon Family

## CONTRACTOR

Paul Bieber, Windsor, VT

## SIZE OF ROOF:

10,000 sq. ft.

## COATING APPLICATOR

Metall supplier; ENGLERT Inc., Pert Amboy, NJ

## ROOF INSTALLED BY

JEI, Inc. doing business as Iron Horse Seam Roofing Company  
Tunbridge, VT

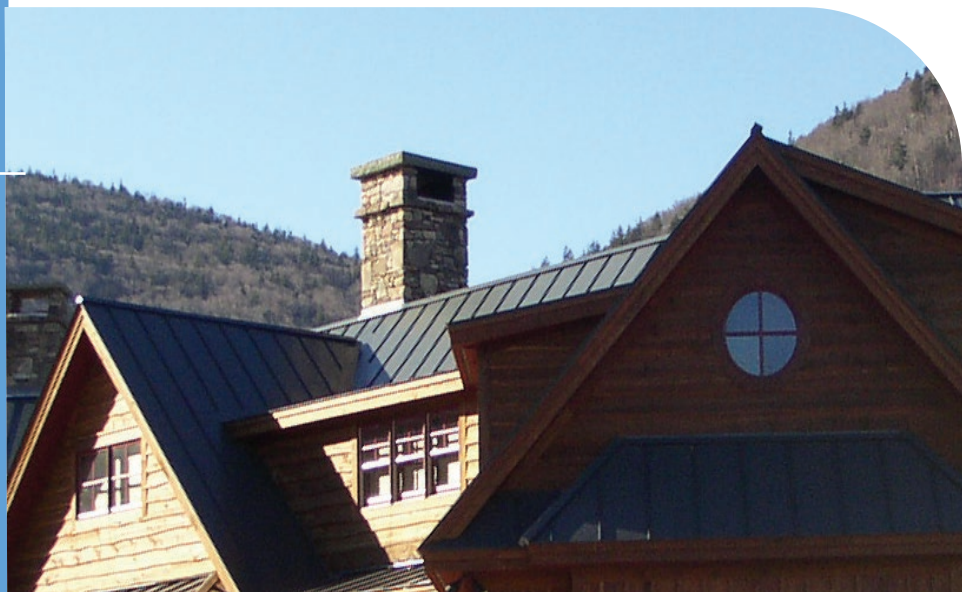
## Kynar 500<sup>®</sup> resin-based metal coatings

Metal has rapidly become the material of choice for residential roofing and homebuilders are using it in new and bold ways. Metal is durable, saves energy, is fire resistant, increases real estate value, and holds its beauty far longer than other roofing materials. Metal must still be protected from weathering by a coating that will keep the appearance looking rich and vibrant 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> PVDF

KYNAR 500<sup>®</sup> PVDF 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, with KYNAR 500<sup>®</sup> PVDF, 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 also be post-formed from coil-coated stock into many exciting shapes and sizes such as the standing seam roofing utilized in the projects pictured in this case study.





# Bear Mountain Residence

## PROJECT PROFILE

This private residence located atop Bear Mountain in Killington, VT was built using a metal roof coated with Kynar 500® PVDF resin based finish. Metal roofing was chosen to enhance the style and appeal of the home built by Paul Biebel of Biebel Builders. Kynar 500® resin-based coatings for 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 Gray

Permacolor finish to the metal that was fabricated onsite by JEI, Inc. doing business as Iron Horse Standing Seam Roofing. The home required 10,000 square feet of painted metal roofing. It was noted that the project used coatings based on Kynar 500® PVDF resin, which meet Energy Star specifications for Cool Roofs that can save energy. This coating system can reflect heat away from the building while increasing the life expectancy of the roof due to less expansion and contraction.

This also eliminates oil canning of the metal surface.





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