



United States Steel

Technical Bulletin Construction:
ACRYLUME CF™ Coated Sheet Steel

For further assistance on the use of steel building panels or related topics, contact U. S. Steel Construction Sales

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Product Description

ACRYLUME CF™ is a chromium-free clear polymer coating on GALVALUME®¹ coated sheet, which was introduced by United States Steel Corporation in 2010 for construction applications. ACRYLUME CF™ offers the environmentally conscious metal building construction industry a chromium-free ACRYLUME® product, which exceeds current environmental regulations in the United States while also complying with international product codes such as RoHS and REACH.

Product Attributes

ACRYLUME CF™ sheet steel retains the same superior performance attributes of U. S. Steel's family of clear polymer coated GALVALUME® coated sheet steels, including:

- Good roll formability without the need for additional lubricants
- A non-slippery surface, enhancing safety during transport, handling and installation
- Excellent stain and discoloration resistance during transit and field storage
- A dramatic decrease in finger printing and foot printing during installation
- Outstanding corrosion protection
- Long-term surface brightness when exposed to the environment

The chromium-free passivation system on ACRYLUME CF™ sheet steel provides similar corrosion resistance to the hexavalent chromium passivation system used in the ACRYLUME® products, in both accelerated corrosion tests and field applications. ACRYLUME CF™ demonstrates equivalent performance to conventional ACRYLUME® after 1,000 hours exposure to the ASTM B117 salt fog test, which has been found difficult to achieve for chromium-free products. The chromium-free clear polymer coating system provides ACRYLUME CF™ coated sheet steel with superior corrosion resistance in both transit and storage. The barrier properties of the passivation system provide increased protection during shipment and construction.

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ACRYLUME CF™ products exceed the current U. S. environmental guidelines and meet numerous European Union environmental directives, including Restriction of Hazardous Substances Directive (RoHS) and Registration, Evaluation, Authorization and Restriction of Chemical Substances (REACH).

ACRYLUME CF™ products are available in the same steel grades and dimensions as U. S. Steel ACRYLUME® products. U. S. Steel provides the same limited warranty against perforation corrosion for ACRYLUME CF™ products as ACRYLUME® products.

ACRYLUME CF™ coated sheet steel is incompatible with a few common building materials, which include contact with lead, graphite, copper and treated or wet lumber.

ACRYLUME CF™ coated sheet steel is best cleaned by using water or a mild, non-abrasive cleaning solution with water. It should not be cleaned with industrial-type solvents.



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