

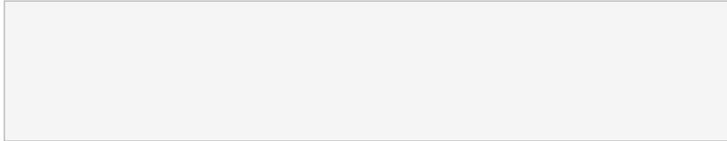
Insulated Metal Panels Cool Coatings



TrueCore insulated metal panels are finished with a cool coating system that features vivid, fade-resistant color, incredible durability and environmentally friendly cool technology. These exterior finishes are optimized for durable performance and reflectivity efficiency, making them the ideal choice for industrial and commercial markets.

Exterior Colors (PVDF)

IR: Initial Reflectance SRI: Solar Reflectance Index



Regal White

IR .73 SRI 89



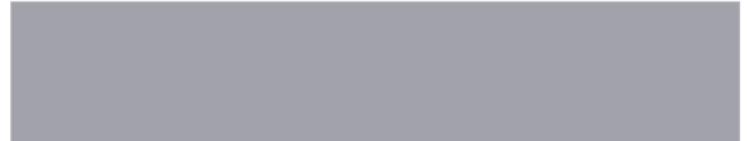
Warm White

IR .65 SRI 78



Surrey Beige

IR .51 SRI 59



Pearl Gray

IR .51 SRI 59



Royal Blue

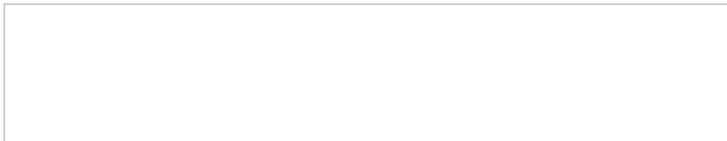
IR .30 SRI 30



Slate Gray

IR .39 SRI 43

Interior Color - Polyester



Igloo White

NOTE: When using field applied coatings always order Igloo White Polyester for the exterior coating.

Colors shown closely approximate actual coating colors.

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Product Specifications

Our environmentally friendly cool technology offers the highest quality materials to help you meet your unique requirements while maximizing the life of your building and saving on energy costs. PVDF is a revolutionary coating system that consists of PVDF resin, acrylic resin and ceramic pigments – giving your panels more vibrant, fade-resistant durability. Its photo-chemical resistance to ultraviolet light helps prevent breakdown from the sun’s rays, reducing heat generation and increasing energy-efficient coolness.

Solar Reflectance, Thermal Emittance and Solar Reflectance Index (SRI)

Solar Reflectance

To be considered “cool,” products must have a Solar Reflectance of at least 0.25. Solar Reflectance is the fraction of the total solar energy that is reflected away from a surface.

Thermal Emittance

Thermal Emittance is the measure of a panel’s ability to release heat that it has absorbed.

Solar Reflectance Index (SRI)

Put Solar Reflectance and Thermal Emittance together and you get the Solar Reflectance Index (SRI). SRI is calculated by using the values of solar reflectance, thermal emittance and a medium wind coefficient. The higher the SRI value, the lower its surface temperature and, consequently, the heat gain into the building. Metal roofs coated with pigmented PVDF resin achieve an SRI of 30–89, depending on the color. Conventional roof surfaces have low reflectance (0.05 to 0.25) and high thermal emittance (typically greater than 0.85). Roof panels with both high reflectance and high emittance can reduce the surface temperature by as much as 30–50% based on color and geographic location, which will result in a reduced heat gain to the building, therefore reducing the energy demand.

PVDF COOL COATINGS

PVDF Cool Color	Initial Solar Reflectance (IR)	Initial Thermal Emittance	Solar Reflectance Index (SRI)
Regal White	.73	0.85	89
Warm White	.65	0.87	78
Surrey Beige	.51	0.87	59
Pearl Gray	.51	0.87	59
Royal Blue	.30	0.86	30
Slate Gray	.39	0.87	43



WARRANTIES

At Nucor, we proudly stand behind every product we make. That’s why we offer a 35-year warranty on our TrueCore PVDF insulated metal panels. It offers protection against:

Fading | Chipping | Peeling | And more