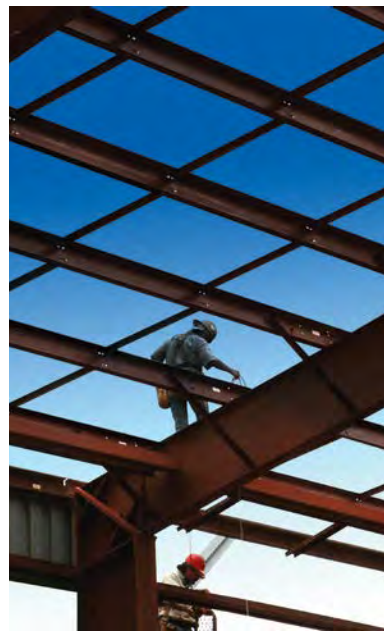


CUSTOM STEEL BUILDINGS

# BUILDING GREEN







a **NUCOR** company

[www.kirbybuildingsystems.com](http://www.kirbybuildingsystems.com)

## Did you know steel is the most recycled material on the planet?

Metal buildings are typically 30% lighter than conventional construction, thus requiring less foundation concrete

Coated metal roofing panels have a useful life of more than 40 years, which keeps replacement roofing materials out of landfills

Metal roofing panels have the ability to channel water off the roof and into a holding basin or into a recycling container for water

Kirby buildings are custom-engineered, so there is minimal scrap and waste material to be disposed of on the job site

SP and PVDF cool coated wall and roof panels reflect the sun's rays, maximizing the life of the panels and lowering energy costs





# BUILDING GREEN

## Going Green is Easier with Metal Building Systems

With steel being the most recycled material on the planet, metal building systems are the poster child for sustainability and “green” building.



Nucor Corporation typically recycles 22 million tons of scrap annually, including 9 million cars. Recycled steel reduces mining waste by 97%, air pollution by 86% and water pollution by 76%. Producing steel through recycling also uses significantly less energy than conventional steel making. In fact, the energy Nucor saves through recycling compared to conventional steel production is enough to power Los Angeles for 8 years.

The typical Kirby Building Systems building is manufactured from over 70% recycled steel. To top that, at the end of its useful life, 100% of a Kirby building can be recycled into a variety of steel products including new cars, appliances, buildings and bridges.

### POTENTIAL LEED POINTS

Credit	Description	Points	Details
MR Credit 4.1 & 4.2	Recycled Content	2	Recycled content over 70%
SS Credit 7.2	Heat Island Effect: Roof	1	Kirby offers two roof paints with Solar Reflectance Index (SRI) over 78.
MR Credit 5.1 & 5.2	Use of Regional Materials	2	Kirby's plant location and Nucor domestic steel mills can often contribute to the use of regional materials. This varies based on job site.
MR Credit 3.1 & 3.2	Materials Reuse	2	Kirby steel materials are 100% recyclable.

### LEED Ratings & Metal Buildings

There are three factors that, together, allow a Kirby building system to earn maximum LEED points:

1. Kirby buildings are manufactured from over 70% recycled steel.
2. The steel in a Kirby building is recyclable, in other words, if the building were to be taken down, all of its steel could be made into new steel.
3. Kirby offers two standard white paint finish options that exceed the LEED SRI\* requirement of 78. These colors can significantly reduce cooling requirements and costs.

### Cool Technology Makes a Difference

Our panels feature vivid, fade-resistant color, incredible durability and environmentally friendly cool technology originally developed for Stealth Aircraft in the U.S. Military. Developed by PPG Industrial Coatings, this is by far the best paint system available in the world today. Nothing works better or lasts longer. The energy-cost savings, architectural appeal, variety of profiles, texture and color, flexibility and long-term durability make SP and PVDF cool coated panels popular choices for architects and building owners. These revolutionary coatings help generate lower environmental temperatures reducing smog and the heat island effect. What's more they help reduce cooling costs in hot summer months.

### PVDF COOL PANEL COLORS

PVDF Cool Color	Initial Solar Reflectance (IR)	Initial Thermal Emittance	Solar Reflectance Index (SRI)
Regal White	.72	0.85	88
Reflective White	.63	0.86	76
Warm White	.63	0.86	76
Pearl Gray	.47	0.86	54
Desert Sand	.57	0.86	67
Surrey Beige	.50	0.85	56
Slate Gray	.37	0.85	40
Royal Blue	.30	0.85	30
Terra Cotta	.36	0.85	38
Cypress Green	.31	0.85	31
Dark Bronze	.32	0.86	33
Brite Red	.38	0.84	40
Charcoal	.32	0.86	34
Midnight Black	.27	0.85	26
Galvalume®	.77	0.08	72

### SP COOL PANEL COLORS

SP Cool Color	Initial Solar Reflectance (IR)	Initial Thermal Emittance	Solar Reflectance Index (SRI)
Polar White	.67	0.83	81
Sandstone	.59	0.84	69
Fox Gray	.51	0.85	58
Sagebrush Tan	.51	0.85	59
Brick Red	.38	0.85	40
Aztec Blue	.27	0.85	26
Forest Green	.27	0.83	25
Burnished Slate	.32	0.85	32
Galvalume®	.77	0.08	72

\* Solar Reflectance Index



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