



CREDENTIALS AND RATINGS

The FOCUS[®] of Nucor Building Systems

Nucor Building Systems entered the metal building industry in 1987, with our first full service plant in Indiana. Our goal was to deliver performance and value. Our FOCUS statement commits that we will concentrate on the things that matter most to our customers. Far more than a marketing acronym, the FOCUS statement is comprised the fundamental principles that drive our business behaviors every day. Every NBS employee understands the value of executing on these commitments.

Fit

Steel that fits. When you buy a car you expect it to start, and when you buy a building you expect it to fit...simple as that! Our greatest source of pride comes from jobs that ship with no back charges, back orders, or shortages.

On Time Deliveries

You get commitments that mean something with Nucor Building Systems. Whether it's a small, single truck shipment or a large multi-phase job, we make sure that you have erectable steel based on your construction schedule. We will coordinate primary and secondary framing, sheeting, crane steel, bar joists, and trim to make sure you can actually build what we send.

Competitive Pricing

Nucor Building Systems has consistently led the industry in man-hours-per-ton in both production and design, making us one of the most efficient manufacturers and low cost suppliers in the industry. Our advanced computer pricing system is available to every Nucor Builder, offering the convenience of pricing many buildings in his/her own office with flexibility, speed, and significant design breadth.

Unbeatable Service

Since Nucor Building Systems utilizes support material produced by our own Nucor Steel divisions, we can assure a predictable supply of raw materials. Repeat customers are the backbone of our success at Nucor Building Systems and responsible for making us one of the fastest growing companies in the industry. Customers drive our business. With a background in heavy manufacturing and steel producing facilities, you can depend upon Nucor for a building system that meets your expectations.

Solutions That Work

Design solutions, field solutions, pricing solutions, selling solutions - chances are we have seen it before and can offer effective solutions to your challenge. We're in this together so it has to work to be successful. At Nucor Building Systems, common sense rules, not theoretical ideals. Together we will figure out the right solutions that work.



NBS Accreditations and Certifications

You can put your trust in Nucor solutions - they have been proven time and time again. As a member of the Metal Building Manufacturers Association (MBMA) and the Canadian Sheet Steel Building Institute (CSSBI), you can be assured that Nucor Building Systems products have passed rigorous third-party testing of our engineering and manufacturing policies, practices, and procedures.



Facility Accreditations/Certifications

IAS AC472 Accreditation for Metal Buildings - all four NBS facilities (Indiana, South Carolina, Texas, and Utah)

CAN/CSA A660 Certification for Manufacture of Metal Buildings – Indiana & Utah facilities

Canadian Sheet Steel Building Institute – Member

Metal Building Manufacturers Association – Member

CWB W47.1 Certified – Indiana & Utah facilities



Personnel Credentials

Licensed Professional Engineers registered throughout the US and Canada

Professional Association Membership by NBS Engineers

- National Society of Professional Engineers
- American Society of Civil Engineers
- American Welding Society
- Association of Iron & Steel Engineers



State/Local Approvals

Florida Product Approval - Nucor VR16 II™, Nucor CFR™, Nucor Classic Roof™, Nucor Classic Wall™, Nucor Reverse Classic Wall™, Nucor Accent Wall™

Miami-Dade County - Approved Manufacturer &/or Fabricator of Structural Steel and Miscellaneous Metals Products and Assemblies

City Fabricator Certifications - Cities of Houston, TX; Los Angeles, CA; Riverside, CA; Seattle, WA; Phoenix, AZ
Clark County, NV – Certified Fabricator of Metal Buildings

State of Utah – Department of Facilities and Construction Management – Approved Fabricator



Product Approval Specifications,

Nucor Insulated Metal Panels (IMP) - The Ultimate in Energy Efficiency

The insulated metal panels available by Nucor have been extensively tested under a variety of North American Standards to ensure compliance with various building codes and industry standards. Designed to deliver superior thermal capabilities and minimize the use of energy required to heat and cool your building, Nucor's Insulated Metal Panels exceed regulatory standards for reduction of global warming potential (GWP) and have zero ozone depleting potential (DP), and do not produce volatile organic compounds (VOC).

Specifications for Insulated Metal Panels	
R-Value* (per inch)	7.1 @ mean temperature of 75°F 7.9 @ mean temperature of 40°F
Thicknesses (inches)	Wall System Standards Mesa: 2", 2.5", 3", 4" Striated: 2", 2.5", 3", 4" Heavy Embossed & AdobeTexture™ : 2", 2.5", 3", 4" Roof System Standards SR2 Standing Seam: 3.25", 4", 5", 6" HR3 Series: 2.5", 4", 5", 6"
Panel Width	40" standard
Panel Length	8' minimum to 50' maximum Consult NBS for other available lengths
Insulation	CFC-free foamed-in-place Polyisocyanurate foam @ 2.2 to 2.5 pcf density
Metal Facings	26ga standard galvanized or Galvalume® steel 22ga & 24ga available. Consult NBS for availability
Coatings	Standard PVDF & SMP (other finishes may be available)
Joint & Fastening	Wall & Standing Seam Roof Panels Off-set tongue and groove with concealed fastener HR Series Roof Panels Overlapping with through fastening at the standing rib
* R-Values shown are for general use only. They do not reflect system or specific end-use insulation values. Please consult NBS for project-specific analysis.	



Testings and Ratings

NBS Product Ratings & Testing	CFR	Translucent CFR*	Composite CFR	Classic Roof	Trans Classic Roof	VR1611	Composite VR1611	Insulated VR1611	Roof Deck	Wall Sheeting	Insulated Wall
UL90	●	●	●	●	●	●	●		●		
UL263 : 1 Hour Fire Rating									●		
FM 1-60	●		● ¹			●		●	● ²		
FM 1-75						●			● ²		
FM 1-90	●		● ¹			●		● ^{SR2}	● ²		
FM 1-105	●							● ^{SR2}			
FM 1-120	●			●		●					
FM 1-135								● ^{SR2}			
FM 1-150				●							
FM 1-165	●					●					
FM 1-180	●					●					
FM 4470 : Walkability	●		●					●			
FM 4471 : Class A Fire Rating	●			●		●		●			
FM 4471 : Class 1-SH Severe Hail	●			●		●		●			
FM 4880 : Class 1 Fire Rating								●			●
FM 4881 : Class I Ext Wall System								●			●
Miami-Dade (MD)						●	●			●	
Florida Approved (FL)	●	●		●	●	●		●		●	●
AAMA 501.1 : Air/Water Infiltration											●
AISI Gravity & Uplift	●					●					
AISI Purlin Stability	●					●					
ASTM E72 : Structural Strength											●
ASTM E84 : Flame Spread/Smoke Index								●			●
ASTM E108 : Fire Testing	●			●		●		●			
ASTM E119 : Fire Endurance								●			●
ASTM E283 : Air Infiltration						●	●	●		● ³	●
ASTM E331 : Water Infiltration								●		● ³	●
ASTM C518 : Thermal Transmission								●			●
ASTM A653 : Structural Quality									●		
ASTM E711 : Heat of Combustion											●
ASTM A1008 : Structural Quality									●		
ASTM E1592 : Uplift Testing	●					●					
ASTM E1646 : Water Infiltration	●		●			●	●				
ASTM E1680 : Air Infiltration	●		●			●	●				
ASTM D1929 : Ignition Properties								●			●
ASTM E2140 : Water Penetration	●		●								
CRRC : Cool Roof Ratings Council	●		●			●	●				
SREF (SSTD-97) : Impact Testing						●	●				
USACE, NAVFAC, AFCEA, NASA Approved	●		●			●	●				
CAN/ULC S101 : Fire Endurance								●			●
CAN/ULC S102 : Flame Spread								●			●
CAN/ULC S126 : Flame Spread								●			
CAN/ULC S127 : Flammability								●			●
CAN/ULC S134 : Fire Test of Exterior								●			●
CAN/ULC S138 : Fire Endurance								●			●

* Ratings for Translucent CFR are reflective of translucent panels only, and do not include prismatic skylights.

A dot located in a box indicates a rating for the particular product. Please refer to the Product Ratings Manual to see what criteria is required to obtain that particular rating. Do not assume it applies to all conditions.

1 - Nucor has Composite CFR listings that include rigid board and deck. However, these listings DO NOT include a vapor barrier. A vapor barrier will void the listings we have according to FM (at this time). Nucor does not recommend having a composite system without the use of a vapor barrier. Please contact NBS Product Development for further assistance with these ratings.

2 - Vulcraft 1.5B deck has been approved by FM for use in approved FM assemblies. This does not mean Nucor has an FM approved composite system. See note 1.

3 - This listing is for 80ksi material only (other special requirements, see manual).

Nucor - A Green Company

Nucor Corporation is the largest recycling company in the nation. We value the environment of the communities in which we operate, and recognize its importance to our employees, their families and our continued welfare. Protecting the environment is critical to our operations and the company's long-term success. To this end, we endorse these principles to demonstrate our commitment to the environment.

Green Facts About Nucor

- Nucor is the largest recycler in the nation
- Nucor recycles over 19 million tons of steel per year
- Nucor recycles 1200 pounds of steel per second 24/7/365

Green Facts About Nucor Processes

Nucor uses the Electric Arc Furnace (EAF) process of melting old steel and turning it into new steel. Compared to traditional steel making processes, the Nucor Steel making process:

- Consumes fewer scarce resources; one recycled ton of scrap metal conserves:
1,400 pounds of coal - 2,500 pounds of iron ore - 120 pounds of limestone - 1705 kwh of electrical energy
- Emits fewer pollutants: A study by the Bender Corporation revealed the following results comparing an average integrated mill and an average EAF mill in terms pounds of emissions of criteria pollutants per ton of steel produced. Please refer to the chart to the right.



Bender Report	PM-10	SOx	NOx	CO	VOC
Integrated Mill	39.8	5.0	0.4	44.0	1.4
Recycling (EAF) Mill	0.3	0.7	0.1	4.0	0.4
Total Emissions Savings/Ton (criteria pollutants): 86#					



Recycle Facts

- Steel is the most recycled material in the world- 64% of all steel is now recycled and kept out of landfills.
- Recycling steel reduces mining waste by 97%, air pollution by 86%, and water pollution by 76%.
- Nearly 2.6 million tons of appliances and 1.6 million tons of steel cans are recycled in one year.
- 5400 BTU's of energy are conserved for every pound of steel recycled!



Recycled Steel Content of Nucor Products

(Approximate Percent by Total Weight)

Product Group	Avg Recycled Content
Nucor Bar Products	97.7%
Nucor Beam Products	80.1%
Nucor Plate Products	88.5%
Nucor Sheet Products	72.0%
Nucor Castrip®	94.0%
Total Nucor Steel Combined	89.5%
Vulcraft Structural Products	97.7%
Vulcraft Decking	72.0%
Nucor Buildings	89.5%
Nucor Fastener Products	97.7%
Nucor Wire Products	97.7%
Nucor Cold Finish	97.7%

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Nucor Building Systems and LEED



The Leadership in Energy & Environmental Design (LEED®) Green Building Rating System™ is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings.

LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance.

The LEED Rating System rates the aggregate system of the building and individual components of the building do not, by themselves, earn points. However, the following chart shows how products provided by Nucor Building Systems contribute to earning LEED points:

LEED Section *	Subject	Potential Points	Nucor Building Systems Contribution
MR Credit 4.1 and 4.2	Recycled Content	2	NBS Recycled Content average 89%
SS Credit 7.2	Heat Island Effect: Roof	1	NBS Offers two roof paints with Solar Reflectance Index (SRI) over 78
MR Credit 5.1 and 5.2	Use of Regional Materials	2	NBS multiple plant locations and Nucor domestic steel mills can often contribute to the use of regional materials. This varies based on the job site. The local plant will assist in determining regional content.
MR Credit 3.1 and 3.2	Materials Reuse	2	All NBS steel materials are 100% recyclable in the future.

* Based on LEED for New Construction - Version 2.2

Energy Rating Values for NBS Standard Color Ratings

Color	Solar Reflectance (R)	Thermal Emissivity (E)	Solar Reflectance Index (SRI)
Regal White	.72	.85	88
Reflective White	.63	.86	76
Warm White	.63	.86	76
Pearl Gray	.47	.86	54
Desert Sand	.57	.86	67
Surrey Beige	.50	.85	56
Slate Gray	.37	.85	40
Royal Blue	.30	.85	30
Tera Cotta	.36	.85	38
Cypress Green	.31	.85	31
Dark Bronze	.32	.86	33
Brite Red	.38	.84	40

Color	Solar Reflectance (R)	Thermal Emissivity (E)	Solar Reflectance Index (SRI)
Charcoal	.32	.86	34
Midnight Black	.27	.85	26
Polar White	.67	.83	81
Sandstone	.59	.84	69
Fox Gray	.51	.85	58
Sagebrush Tan	.51	.85	59
Brick Red	.38	.85	40
Aztec Blue	.27	.85	26
Forest Green	.27	.83	25
Burnished Slate	.32	.85	32
Galvalume®	0.77	.08	72



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