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March, 2017

Re: Source of Materials (steel) and Recycled Materials content LEED Program

To Whom it May Concern,

As you know there is considerable importance on environmental issues as they relate to products used in the construction of new buildings. The LEED program is a good example. We have been asked to provide information relating to recycled content of our products, including where the materials (primarily steel) we use for our products are sourced.

To this effect, we are very pleased to inform you and all our customers that the steel we use has at the pre-consumer scrap (also known as post-industrial scrap) and post-consumer scrap ratings as set forth in Schedule "A", such data provided directly from FERO's steel supplier. The plastic we use to manufacture FERO's insulation supports is 100% Post Consumer recycled material. Our shipping pallets are second-hand and 100% recycled. Our shipping boxes are made from 100% recycled cardboard. Further, as of January 1, 2004, FERO implemented the re-use of cardboard boxes and plastic bags from materials and products delivered to FERO, if our customer does not object to such re-use.

All FERO products are manufactured in Edmonton, Alberta, Canada (postal code: T5M 3X4) and are shipped from our manufacturing facility by trucks.

Should you require any further information please do not hesitate to contact FERO.

Michael Hatzinikolas, P.Eng., Ph.D., F.C.S.C.E





March 30, 2016

To: All Nucor Customers

Re: 2015 Recycled Content of Nucor Steel Products

Nucor Corporation is North America’s largest recycler, using approximately 20 million tons of scrap steel in 2015 to create new products. Nucor uses Electric Arc Furnace (EAF) technology at all of its steel recycling facilities. EAFs use post-consumer scrap steel material as the major feedstock, unlike blast furnace operations that use mined iron ore as the major feedstock. Nucor has prepared the following information to help calculate the recycled content for products being used in “Green Building” applications or for projects in the LEED® program. These percentages are approximate and are based on the total weight of the products. The calculations are based on 2015 scrap steel delivered and hot metal tons produced and are defined in accordance with ISO 14021:2001. More specific product information may be available from facility representatives.

Recycled Content – LEED 2009 Credit 4

2015 Recycled Steel Content of Nucor Products (% by Total Weight)	
Product Group	Average Recycled Content
Nucor Bar Products	99.8%
Nucor Beam Products	82.9%
Nucor Plate Products	64.3%
Nucor Sheet Products	68.9%
Nucor Castrip®	96.7%
Total Nucor Steel Combined	79.7%
Vulcraft Structural Products	99.8%
Vulcraft Decking	68.9%
Nucor Building Group	79.7%
Nucor Fastener Products	99.8%
Nucor Wire Products	99.8%
Nucor Cold Finish	99.8%

Regional Materials – LEED 2009 Credit 5

Nucor tracks the origin of scrap shipments to our mills. Nucor can approximate the amount of scrap recovered from any project site region. Nucor owns steel and steel products manufacturing facilities throughout the US that are often within 500 miles of the project site. Please refer to the LEED Contact List (<http://nucor.com/responsibility/sustainability/compliance/leed/>), then click on “LEED Contact”), and contact the specific Nucor representative at the facility directly.

Bar Mill Group – Darlington, SC; Norfolk, NE; Jewett, TX; Plymouth, UT; Auburn, NY; Birmingham, AL; Kankakee, IL; Jackson, MS; Seattle, WA; Marion, OH; Memphis, TN; Kingman, AZ, Wallingford, CT

2015 Approximate Recycled Steel Content Of All Nucor Bar Mill Group Products ^(*)				
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post-consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
All	99.8%	0.2%	82.8%	17.0%

The Nucor Bar Mill Group produces rebar, angles, flats, rounds and other miscellaneous shapes. The bar mill group uses recycled scrap steel for 99.8% of the feedstock.

Sheet Mill Group – Crawfordsville, IN; Hickman, AR; Huger, SC; Decatur, AL, Gallatin, KY; Castrip, IN; Castrip, AR

2015 Approximate Recycled Steel Content Of Nucor Sheet Mill Group Products ^(*)				
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Crawfordsville, IN	94.9%	5.1%	78.7%	16.1%
Hickman, AR	63.5%	36.5%	52.7%	10.8%
Berkeley, SC	50.6%	49.4%	42.0%	8.6%
Decatur, AL	66.1%	33.9%	54.8%	11.2%
Gallatin, KY	82.0%	18.0%	68.0%	13.9%
Nucor Castrip® Blytheville, AR	96.6%	3.4%	80.2%	16.4%
Nucor Castrip® Crawfordsville, IN	94.9%	5.1%	78.7%	16.1%

The Nucor Sheet Mill Group produces hot band, cold rolled, pickled and galvanized products. Nucor Sheet mills use varying amounts of recycled materials depending on metallurgical product demands and market conditions. The combined sheet mill total recycled content is approximately 70.2%.

Beam Group – Blytheville, AR; Huger, SC

2015 Approximate Recycled Steel Content of Beam Mill Products ^(*)				
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Nucor Yamato Steel, Blytheville, AR	96.6%	3.4%	78.7%	16.1%
Nucor Berkeley, Huger, SC	50.3%	49.7%	41.7%	8.5%

Nucor Beam mills produce narrow and wide flange structural beams. Nucor Yamato uses approximately 99.8% scrap steel for their feedstock. Nucor Steel Berkeley uses a higher percentage of non-scrap iron due to metallurgical product demands for sheet steel produced using the same EAF's. The combined beam mill recycled content is approximately 90.7%.

Plate Group - Hertford County, NC; Tuscaloosa, AL

2015 Approximate Recycled Steel Content of Plate Mill Products ^(*)				
Facility	Total Scrap Steel Used	Total Alloys and Other Iron Units	Total Post Consumer Recycled Content	Total Pre-consumer/ Post-industrial Recycled Content
Hertford County, NC	65.5%	34.5%	54.4%	11.1%
Tuscaloosa, AL	62.9%	37.1%	51.9%	10.6%

The Nucor Plate combined recycled content by weight is approximately 80.0%.

(*) Studies show that the recycled steel used for Nucor products consists of approximately 83% post-consumer scrap. The remaining 17% typically consists of pre-consumer scrap generated by manufacturing processes.

Vulcraft Group – Florence, SC; Norfolk, NE; Brigham City, UT; Grapeland, TX; St. Joe, IN; Fort Payne, AL; Chemung, NY; Verco Decking, Inc. – Phoenix, AZ; Fontana, CA; Antioch, CA

Joists - The bar steel for Vulcraft joists is typically obtained from one of the eleven Nucor bar mills. That would mean that the average recycled content percentage for the Vulcraft group is 99.8%. The post consumer and pre consumer recycled content have been calculated to be approximately 82.8% and 17.0% respectively.

Deck – Steel for decking produced by Vulcraft facilities is typically obtained from one of the seven Nucor sheet mills. That would mean that the Vulcraft deck products contain approximately 68.9% recycled steel. The post and pre consumer recycled content were calculated to be approximately 57.2% and 11.7% respectively. Verco Decking, Inc. may obtain steel from sources outside of Nucor that may contain lower amounts of recycled content; specific product information regarding Verco Decking, Inc. is available from facility representatives.

Products Group -

- **Nucor Building Group** –
 - Swansea, SC; Waterloo, IN; Terrell, TX; Brigham City, UT;
 - **American Buildings Company** – Eufaula, AL; La Crosse, VA; Carson City, NV; El Paso, IL;
 - **Kirby Building Systems** – Portland, TN;
 - **Gulf States Manufacturer** – Starkville, MS;
 - **CBC Steel** – Lathrop, CA;
- **Nucor Fastener** – St. Joe IN; **LMP Steel** – Maryville, MO;
- **Nucor Cold Finish** – Milwaukee, WI; Darlington, SC; Brigham City, UT; Norfolk, NE
- **Nucor Steel Kingman, LLC**

Nucor Building Group (Including American Buildings Company, Kirby Building Systems, Gulf States Manufacturer, and CBC Steel) – Nucor Building Group products may contain steel from all of the Nucor steel mills or obtain steel from outside of Nucor Corporation for their sheet, plate, bar and beam steel needs. The Nucor Building Systems, when using Nucor steel, contains an average of 79.7% total recycled content. The post and pre consumer recycled content was 66.2% and 13.6% respectively.

Nucor Fastener – Steel for Nucor fasteners is typically obtained from Nucor bar mills that use scrap steel as their feedstock. Some fasteners may contain high percentages of alloys that may reduce the total recycled content of the products, but Nucor Fastener products typically contain 99.8% recycled materials. The post and pre consumer recycled content would be approximately 82.8% and 17.0% respectively.

Nucor Cold Finish – Steel processed at Nucor Cold Finish is typically obtained from Nucor bar mills. The Nucor Cold Finish, when using Nucor steel, would contain an average amount of 99.8% recycled steel. The post and pre consumer recycled content would be approximately 82.8% and 17.0% respectively.

Additional information regarding specific recycled content of Nucor Corporation products group for a customer's specific order is available from facility representatives.

Additional information is available online through the Steel Recycling Institute at <http://www.recycle-steel.org>.

February 1, 2015

LEED 2009 - For New Construction and Major Renovations

GerdaU is a proud member of the U.S. Green Building Council (USGBC) and takes an active role in supporting a greener built environment through the implementation of the Leadership in Energy and Environmental Design (LEED) Certification Program. GerdaU recognizes the impact that the built environment has on our natural environment, economy, health and productivity and supports the USGBC in their efforts to promote green construction and to maximize both economic and environmental performance.

The products and services that GerdaU provides can be utilized to meet specific LEED 2009 credits in the following ways:

MR Credit 4: Recycled Content

GerdaU mills manufacture products using the electric arc furnace and continuous casting process for the production of the basic steel that is further processed into finished products. The main component of raw material for the electric arc furnace steelmaking process is recycled steel scrap, which is categorized as pre-consumer, post-consumer or home scrap (scrap generated and recycled at the mill) based upon the source. The amount of pre-consumer and post-consumer content is dependent upon the sources and requirements for each plant and product type. A small percentage of non-recycled raw materials (e.g., pig iron, direct reduced iron and ferro-alloys) are also used based on the metallurgical requirements.

The intent of this credit is to increase demand for building products that incorporate recycled content materials, thereby reducing the environmental impacts resulting from extraction and processing of virgin materials.

Achieving LEED credit points requires the project to use materials with recycled content such that the sum of post-consumer recycled content plus $\frac{1}{2}$ the pre-consumer content constitute at least 10% (1 point) or 20% (1 additional point), based on cost, of the total value of the materials in the project. To obtain recycled content values based upon mill location and product type, see attached table.

The Total Recycled Content is also shown and is a valuable indicator of the impact that the steel industry has on supporting green construction practices.

MR Credit 5: Regional Materials

GerdaU operates 16 steel mills producing a wide range of steel construction products, and 47 downstream fabrication facilities across North America. Based on the location of your project, GerdaU can assist in developing a procurement strategy to maximize the regional materials credit to greatest extent possible.

The intent of this credit is to increase demand for materials and products that are extracted/harvested/recovered and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Achieving LEED credit points requires the project to use materials or products that have been **EITHER** “extracted, harvested or recovered” **AND** manufactured within 500 miles of the project site for a minimum of 10% (1 point) or 20 % (1 additional point) based, on cost, of the total project materials value. For purposes of this credit evaluation, steel produced from recycled scrap can be considered to be either “recovered or harvested”. Also, for purposes of this credit evaluation, “manufactured” is determined to be the location of fabricator’s facility unless the material is delivered directly to the project site from the mill.

The USGBC currently allows the recovery/harvested location to be determined using one of two methodologies provided the selected methodology is used consistently for the specific project and documented in the project submittals. Gerdau therefore recommends the following.

1. For projects that are located less than 500 miles from the mill, consider the recovery/harvest point as the mill location. The Regional Material Value can be calculated using 100% of the recycle content (recovered/harvested scrap) of the product used.
2. For projects that are located more than 500 miles from the mill, consider the recovery/harvested location as the individual scrap collection locations that fall within the project 500 mile radius. Gerdau can provide a regional percentage value based on which of our scrap providers are located within 500 miles of the project. The Regional Material Value can be calculated using the reported regional percentage of the recycle content (recovered/harvested scrap) of the product used. Please contact Gary Peters at gary.peters@gerdau.com or at (813) 207-2353 for project specific information.

ID Credit 1: Innovation in Design

The intent of this credit is to provide design teams and projects the opportunity to achieve exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green Building categories not specifically addressed by the LEED Green Building Rating System. This credit has two Pathways for earning points, PATH 1 for Innovation in Design and PATH 2 for Exemplary Performance.

Under PATH 1, projects can achieve significant, measurable environmental performance using a strategy not addressed in the LEED 2009 for New Construction and Major Renovations Rating System. One point is awarded for each innovation achieved. No more than 5 points under ID Credit 1 may be earned through PATH 1.

Under PATH 2, an exemplary performance point may be earned for achieving double the credit requirements and/or achieving the next incremental percentage threshold of an existing credit in LEED. One point is awarded for each exemplary performance achieved. No more than 3 points under ID Credit 1 may be earned through PATH 2.



Gerdau is available to support your project team through our Integrated Team approach giving you the benefit of leading subcontractor participation and knowledge thereby reducing project build time, as well as industry leading expertise and experience in project detailing and fabrication. Gerdau is available to develop innovative, project specific solutions to minimize waste, improve environmental performance and help you achieve additional LEED ID Credit 1 points.

If you need any further information please contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Bhaskar'.

Bhaskar Yalamanchili,
Director of Corporate Quality
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bhaskar.yalamanchili@gerdau.com

2014 Recycled Steel Content for All Products by Mill

Mill	Post-consumer Scrap Content %	Pre-consumer Scrap Content %	Home or revert Scrap %	Total Recycled Content %	Non Recycled Content %	*Products Produced
Beaumont, TX	74.0	13.8	6.8	94.6	5.4	W
Beaumont, TX	77.4	14.5	7.1	99.0	1.0	R
Calvert City, KY	78.9	15.9	2.9	97.6	2.4	M, S
Cambridge, Ontario	77.0	15.7	6.3	99.0	1.0	M, R
Cartersville, GA	72.1	22.1	2.1	96.3	3.7	M, S
Charlotte, NC	84.3	9.3	5.4	99.0	1.0	M, R
Jackson, TN	84.1	13.1	1.8	99.0	1.0	M, S
Jacksonville, FL	91.7	4.8	2.0	98.4	1.6	R, W
Knoxville, TN	73.5	21.4	4.1	99.0	1.0	R
Selkirk, Manitoba	89.7	1.7	7.6	99.0	1.0	M, R, SBQ
Midlothian, TX	88.7	3.8	6.5	99.0	1.0	M, R, SBQ, S
Petersburg, VA	79.5	6.1	13.5	99.0	1.0	S
Rancho Cucamonga, CA	84.5	12.4	2.1	99.0	1.0	R
Sayreville, NJ	80.4	14.2	4.5	99.0	1.0	R
St Paul, MN	81.1	8.0	9.7	98.8	1.2	M, R, SBQ
Whitby, Ontario	77.0	15.7	6.3	99.0	1.0	M, R, S
Wilton, IA	79.8	9.8	9.4	99.0	1.0	M
All Mills	81.7	11.1	5.6	98.4	1.6	

Product Abbreviations: Merchant (M), Rebar (R), Special Bar Quality (SBQ), Structural (S), Wire Rod (W)