



STEEL STUD SOLUTIONS LLC

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LEED* Information

The following information should assist general contractors and project managers in completing the requirements to achieve LEED certification for construction projects. (Information provided courtesy of The Steel Recycling Institute)

The U.S. Green Building Council Leadership in Energy & Environmental Design (LEED®) Green Building Rating System aims to improve occupant well-being, environmental performance and economic returns of buildings using established and innovative practices, standards, and technologies.

Materials & Resources Credit 4: Recycled Content intends to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials. As discussed and demonstrated below, steel building products contribute positively toward points under Credits 4.1 and 4.2. The following is required by LEED-NC Version 2.2:

Credit 4.1 (1 point) "Use materials with recycled content such that the sum of postconsumer recycled content plus one-half of the pre-consumer content constitutes at least 10% (based on cost) of the total value of the materials in the project."

Credit 4.2 (1 point) "Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 20% of the total value of the materials in the project." "The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value." Since steel (the material) and steel (the building product) are the same, the value of the steel building product is directly multiplied by steel's recycled content, or:

Steel Recycled Content Value = (Value of Steel Product) (Post-Consumer % + ½ Pre-Consumer %)

The information contained within this brochure provides post-consumer and pre-consumer recycled content percentages for North American steel building products. These percentages and values of steel building products are easily entered into LEED Letter Template spreadsheet for calculation. To illustrate the application of these steel recycled content values to LEED, manual calculations are shown below for typical Basic Oxygen Furnace (BOF) and Electric Arc Furnace (EAF) steel building products with nominal \$10,000 purchases, using 2005 data. Steel building products include steel



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stud framing, structural steel framing (wide-flange beams, channels, angles, etc.), rebar, roofing, siding, decking, doors and sashes, windows, ductwork, pipe, fixtures, hardware (hinges, handles, braces, screws, nails), culverts, storm drains, and manhole covers.

BOF Steel Recycled Content Value for Typical Product: Steel Stud Framing

Value = (\$10,000) (22.3% + ½ 6.1%) = (\$10,000) (25.35%) = \$2,535
(Exceeds 10% and 20% goals)

EAF Steel Recycled Content Value for Typical Product: Wide-Flange Structural Steel Framing

Value = (\$10,000) (46.2% + ½ 31.1%) = (\$10,000) (61.75%) = \$6,175
(Exceeds 10% and 20% goals)

To obtain certification under the LEED-NC (New Construction) rating, a project must achieve a minimum of 26 points in the categories of site, water, energy, materials and indoor environment. To attain a Silver rating, it must reach 33 points; for Gold, 39 points, and for Platinum 52 points. (Courtesy of the Foundation of the Wall and Ceiling Industry)

Specifically pertaining to Steel Stud Solutions, our 3 manufacturing facilities reduce the distance we must ship materials. Based on the steel manufacturing processes listed above and data provided by the Steel Recycling Institute, our metal building products exceed the minimum 10% and 20% markers needed to attain full LEED credit with regard to recycled steel products.

If you have any other questions or concerns, please contact Jason Bargaquist or John Stretton at 616 261 1950.

For more information, please visit the following:

<http://www.usgbc.org/>
<http://www.recycle-steel.org/>

*LEED is a registered trademark of the US Green Building Council