TEKKō

TEKKō™
the new standard in naturally finished steel
鉄甲

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Subject: Leadership in Energy & Environmental Design LEED®

Tekkō™ Metals recognizes the importance and growing agenda of Leadership in Energy & Environmental Design (LEED®) practices, materials, and standards. The U.S. Green Building Council (USGBC) developed the LEED Green Building Rating System® to promote the design and construction of buildings that are environmentally responsible, profitable, and healthy places to live and work. The LEED® building rating system encourages the adoption of green practices by giving recognition and visibility to appropriately qualified projects.

Tekkō™ Metals is based in the USA that manufacturers and sells Steel and Zinc based products. The Steel casting and rolling facility is located in Pittsburgh, Pennsylvania. Steel is the most highly recycled material in the world. Tekkō™ Steel has a unique hot dipped coating consisting of Zinc, Aluminum and Magnesium, this coating is applied using traditional galvanizing methods. Tekkō™ Steel is a good solution for all environments with the strength of steel and the corrosion resistance of stainless steel with a unique self-healing characteristic of protecting its exposed edges.

Tekkō™ Steel exhibits a minimum recycled content of 25% which aids in qualifying your project for LEED points as defined in the LEED ratings system.

Tekkō™ Steel cladding can be easily recycled and not land-filled when its useful life is completed. On December 10, 2009, The Steel Recycling Institute announced that the current recycling rate for steel

has reached a record high of 83.3%, meaning that in 2008 82 million tons of domestic steel scrap was used to make new steel products.

	Zinc [1]	Steel [2]
Reclamation Rate	80%	100%
Recycling Rate	30%	70%
1 International Zinc Association (IZA) Zinc Recycling, 2004 2 Steel Recycling Institute Steel Lakes LEED with Recycles Content, March 2009		

Tekkō™ Steel Material efficiency: utilizing hot dip galvanized Architecturally Exposed Structural Steel (AESS) eliminates additional materials required for finishing as well as additional materials for future maintenance.

MR Credit 2.1 and 2.2 - Construction Waste Management:

Given that steel is North America's most recycled material, diverting the project's waste from landfill contributes toward Construction Waste Management points.

MR Credit 4.1 and 4.2 - Recycled Content:

Tekkō™ Steel complies with industry procedures for the manufacturing of cold-formed steel products produced by the Basic Oxygen Furnace (BOF) process. BOF uses 25% to 35% old steel to make new steel. Typical recycled content for steel sheets manufactured by the BOF process is as indicated below:

- Total recycled content = 36.9%
- Post-consumer recycled content = 25.5%
- Pre-consumer recycled content = 14.4%

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MR Credit 5.1 and 5.2 – Regional Materials

Use of materials or products that have been extracted, harvested, or recovered and manufactured within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally*, then only that percentage (by weight) can contribute to the regional value. The minimum percentage regional materials for each point threshold is as follows:

- 10% – 1 point
- 20% – 2 points

*Per USGBC, the steel fabricator is the final point of assembly and is therefore the manufacturer in terms of LEED® Local/Regional Materials credits (unless steel is delivered directly from the mill to the site). This information was compiled from national averages for mill usage of scrap as available from the Steel Recycling Institute.

Details add to less than total due to exclusion of “home scrap” for LEED’s purposes. Check websites for most current data.
http://www.recycle-steel.org/
http://www.usgbc.org/