LEED Green Building certificate

Leadership in Energy and Environmental Design (LEED) consists of a suite of rating systems for the design, construction and operation of high performance green buildings, homes and neighborhoods.
Developed by the U.S. Green Building Council (USGBC), LEED is intended to provide building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

Today, in the LEED 2009 for new construction rating system, there are 100 possible base points distributed across five major credit categories: Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources. Indoor Environmental Quality, plus an additional 6 points for Innovation in Design and additional 4 points for Regional Priority.

Hwa Lin Stainless Steel Industry has identified the following points to be relevant for its stainless steel products:

SUSTAINABLE SITES: Credit 7 Heat island effect
The solar reflectance index (SRI) of stainless steels will vary depending on finish and coating. According to the LBNL Cool Roofing Material Database, uncoated stainless steels generally exceed the steep slope SRI requirement of ≥ 29.
More data can be obtained from Hwa Lin Stainless Steel Industry.

MATERIALS AND RESOURCES: Credit 1 Building reuse
Due to their durability, stainless steel building products can be reused during renovations and then, contribute to increase the building reuse percentage.

MATERIALS AND RESOURCES: Credit 2 Construction Waste management
Stainless steel scrap has a high value as secondary raw material and is 100% recyclable without loss of quality.
According to the study "Global Stainless Steel Cycles for 2000 and 2005" (Yale School of Forestry & Environmental Studies – February 2009) up to 95% of stainless steel used in buildings and construction are collected for recycling at end of life.

MATERIALS AND RESOURCES: Credit 4 Recycled content
Pre-consumer material is defined as material diverted from the waste stream during the manufacturing process.
Post-consumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose Hwa Lin's stainless steel contains 74%(*) recycled steel.
Percentage of pre-consumer content: 19%
Percentage of post-consumer content: 55%
(*) 64% recycled steel according to LEED formula

MATERIALS AND RESOURCES: Credit 5 Regional Materials
Hwa Lin's stainless steel is produced in Thailand and further processing takes place in Thailand.

INDOOR ENVIRONMENTAL QUALITY: Credit 4 Low emitting materials
Hwa Lin's stainless steel panels do not release volatile organic compounds or other fumes into air.

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