

**To: Architects, Engineers, Designers, and Specifiers**

**Re: LEED v3 – LEED for New construction 2009**

**MRc4.1 and MRc4.2: Recycled Content Value**

**MRc5.1 and MRc5.2: Regional Materials**

**Credit MRc4.1 and MRc4.2: Recycled Content Value**

The following information is provided by Tree Island Industries Ltd to assist in the application of LEED for New construction and Major Renovation projects where Tree Island Wire products are specified and used.

Tree Island Wire products fall into the Materials and Resource, MRc4.1 and MRc4.2: Recycled Content Value category for calculating LEED points.

**Requirements**

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 10% or 20% (based on cost), of the total value of the materials in the project.

The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

**Tree Island Recycled Content Value**

Tree island Industries utilizes a mixture of Electric Arc Furnace (EAF) and Basic Oxygen Furnace (BOF) carbon steel to manufacture its building construction products.

Recycled content determined by weight is:

**Post-consumer recycled content = 19.5%**

**Pre-consumer recycled content = 13.7%**

Recycled content value per \$1,000 of Tree Island Industries products used:

$$RCV = \$1,000 \times (19.5\% + \frac{1}{2} \times 13.7\%) = \$263$$

**LEED Points**

Tree Island Industries building construction products contribute to the 10% (1 point) and the 20% (2 points) recycled content threshold in the Materials and Resource, Credit 4: Recycled Content category.

**MRc5.1 and MRc5.2: Regional Materials**

For the last 12 months, Tree Island Industries sourced its raw material (steel wire rod) from the following locations:

Steel source location (Radius outside of Richmond, BC), km	% of Total steel usage
440 by land	13.4%
9,000 by water	23.9%
3,500 by water	1%
11,220 by water	59.7%

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