



Customer information concerning

## LEED Green Building Rating Systems

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The LEED system (Leadership in Energy and Environmental Design) was developed in 2000 and it is a globally recognized symbol of excellence in green buildings. It is operated by the Green Building Councils as voluntary certification systems for environmental friendly buildings. For more information about LEED visit <http://www.usgbc.org/leed>

This document gives examples of sustainability aspects of Outokumpu's stainless steel products that could be relevant for LEED rating.

### **LEED MR Credit - Building and Material Reuse**

Due to their durability, stainless steel building products have the potential to be reused during renovations.

### **LEED MR Credit - Whole-Building Life-Cycle Assessment**

Life Cycle Data for Stainless Steel exist both at industry average level and Outokumpu has specific data for its own products. Due to its durability, stainless steel usually does not have to be replaced during the 60 year service time. Also the maintenance need is low.

### **LEED MR Credit – Product Declarations**

Outokumpu provides product specific Environmental Product Declarations which conform to ISO 14025 and EN 15804

### **LEED MR Credit – Raw Material Source and Extraction Reporting**

Outokumpu has introduced policies for sourcing raw material in a responsible way, including avoiding raw materials from known conflict zones. Supply chain matters are reported annually in Outokumpu's Sustainability GRI report.

### **LEED MR Credit – Leadership Extraction Practices**

The total recycled content of Outokumpu stainless steel varies depending on scrap availability, but typically ranges from 85 to 90 % on an annual basis. In 2016 the total recycled content of Outokumpu stainless steel was 87 %. It is estimated that the pre-consumer recycled content was 19 % and the post-consumer recycled content 68 %.



### **LEED MR Credit – Material Ingredient Reporting**

Outokumpu stainless steel is produced according to international standards and product certificates that are delivered with the product give an inventory of the steel. The Material Safety Data Sheets (North America) or Safety Information Sheet (EU) contain specific information regarding health and environmental effects.

### **LEED MR Credit – Material Ingredient Optimization**

Outokumpu stainless steel do not contain any substances that meet REACH criteria for substances of very high concern (SVHC)

### **LEED MR Credit – Product Manufacturer Supply Chain Optimization**

Through ISSF, the International Stainless Steel Forum, Outokumpu has actively supported studies on stainless steel health effects.

### **LEED MR Credit – Diversion**

Stainless steel scrap has a high value as secondary raw material, and it is 100 % recyclable without loss of quality. According to the International Stainless Steel Forum up to 92 % of stainless steel used in buildings and construction are collected for recycling at end-of-life.

### **LEED SS Credit – Heat Island Reduction**

The SRI of stainless steels will vary depending on finish, but uncoated stainless steels generally exceed the steep slope SRI requirement of  $\geq 39$ . Information about surface finish can be obtained from Outokumpu.

### **LEED EQ Credit: Low-Emitting Materials**

Uncoated stainless steel panels do not release volatile organic compounds or other fumes into air.

*Applicable for healthcare only:*

### **LEED MR Credit – PBT Source Reduction – Lead, Cadmium, and Copper**

Lead is not used in the production of stainless steel from Outokumpu and the steel meets the lead free definition of California AB 1953 standard

### *Additional information*

Outokumpu's stainless steel is melted in Finland, Sweden, UK, or the US. Further processing takes place at different locations around the world. The melting and processing location depends on the product and has to be confirmed separately.