

Vieira de Leiria, 1st February, 2024.

LEED® GREEN BUILDING RATING SYSTEM

LEED® stands for Leadership in Energy and Environmental Design. It is a green building certification program developed by the U.S. Green Building Council (USGBC), to evaluate the environmental performance and sustainability of buildings and communities.

Böllinghaus Steel stainless steels bars, downstream used in project buildings, contributes to LEED® Green Building v4 Rating System credits, particularly in the Materials & Resources category.

Material and Resources (MR) Credits:

- > MR Credit 1 - Building Life-Cycle Impact Reduction
Material Reuse & Whole Building Life-Cycle Assessment

Stainless steel is known for its high durability and corrosion resistance, which contributes to a longer lifespan and low maintenance needs compared to many other materials. Buildings and structures that use stainless steel for components like structural elements, cladding, or roofing can benefit from a longer lifespan (over 60-year service time), reducing the need for frequent replacements and increasing the potential of its reuse.

Note: Materials contributing toward this credit may not contribute toward MR Credit Material Disclosure and Optimization – Sourcing of Raw Materials

- > MR Credit 3 - Building Product Disclosure and Optimization – Sourcing of Raw Materials

Stainless steel is a versatile and highly recyclable material. Since stainless steel can be made with a significant percentage of recycled content it can contribute to achieving credits under MR Credit 3.

Based on suppliers' information, stainless steel bars provided by Böllinghaus Steel contain at least 90% of recycled material (12.1% pre-consumer scrap).

However, this figure can differ based on factors such as the grade of stainless steel and scrap availability.

- > MR Credit 4 - Building Product Disclosure and Optimization - Material Ingredients

Böllinghaus Steel stainless steel bars can contribute to this credit by providing transparency about its material ingredients. Chemical composition of stainless steel is made available in the Mill Test Certificate delivered with the product.

Additional information regarding product compliance within REACH and RoHS legal framework is available.

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> MR Credit 5 - Construction and Demolition Waste Management

Stainless steel products are 100% recyclable and have value even after a very long life as capital goods or consumer products. Stainless steel final products used in building design and construction can all be fully recycled after a useful life. Stainless steel is collected by metal scrap dealers all around the world and sent back to the melt shop for use in producing new stainless steel without loss of quality.

On the other hand, stainless steel bars packaging supplied by Böllinghaus Steel usually consists of wrapping paper, plastic straps, plastic foil (specific cases only) and wooden cradles, all of which can be recycled to reduce solid waste generation.

Stainless steel products delivered by Böllinghaus Steel have other sustainable characteristics that can contribute to earning other LEED® rating credits under other categories.

Due to corrosion resistance nature of stainless steel, it does not require a surface coating that can deteriorate to possibly pollute the environment (low or no VOC emissions). This can help achieve credits under the **Indoor Environmental Quality** category.

Projects that incorporate innovative design and construction practices, such as the use of stainless steel in unique ways that enhance sustainability, may be eligible for **Innovation in Design** credits.

It's important to note that the specific contribution of stainless steel to LEED® certification will depend on the project's details and how stainless steel is applied. Project teams should work with LEED®-accredited professionals and assess the specific criteria outlined in the LEED® rating system to determine the potential contributions of stainless steel to the certification process.

Your sincerely,

A handwritten signature in blue ink that reads "Nilza Neto". The signature is fluid and cursive.

Nilza Neto
Sustainability Department

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