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LEED® CREDIT STATEMENT ETERNO IVICA

PEDESTAL



INTRODUCTION

LEED Certification

In the United States and in a number of other countries around the world, LEED certification is the recognized standard for measuring building sustainability. Achieving LEED certification is the best way for you to demonstrate that a building project is truly "green."

LEED, or Leadership in Energy and Environmental Design, is redefining the way we think about the places where we live, work and learn. As an internationally recognized mark of excellence, LEED provides building owners and operators with a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

With nearly 9 billion square feet of building space participating in the suite of rating systems and 1.6 million feet certifying per day around the world, LEED is transforming the way built environments are designed, constructed, and operated --- from individual buildings and homes, to entire neighborhoods and communities. Comprehensive and flexible, LEED works throughout a building's life cycle.

The LEED green building rating system -- developed and administered by the U.S. Green Building Council, a Washington D.C.-based, nonprofit coalition of building industry leaders -- is designed to promote design and construction practices that increase profitability while reducing the negative environmental impacts of buildings and improving occupant health and well-being.

The LEED rating system offers four certification levels for new construction -- Certified, Silver, Gold and Platinum -- that correspond to the number of credits accrued in five green design categories: sustainable sites, water efficiency, energy and atmosphere, materials and resources and indoor environmental quality.

LEED New Construction (NC) standard covers new commercial construction and major renovation projects.

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LEED ratings are always referred to the building project, however the use of products having specific green features does make a difference.

This Credit Statement aims at indicating the specific product features that can contribute effectively to the certification process.

QualityNet

Since 1997 our team of specialized professionals is supporting major company certifications and compliance of products.

The deep knowledge of standards and rules, the understanding of applicability criteria from country to country and among different kind of business are the key of QualityNet success, supported by a comprehensive portfolio of services to meet the different needs of the market, consistent with the policies of sustainability and characterized by a professional, appropriate and responsive activity.

QualityNet plays an active role in the green building world and supports LEED (Leadership in Energy and Environmental Design), verifying the applicability of current LEED standards in different scenarios and evaluating the contribution of green products in the LEED certification process.

As a further support to sustainable building products of high profile and success, QualityNet provides tools and support services that contribute to obtaining LEED® credits, and helps the producers with innovative marketing and visibility strategies.

QualityNet promotes continuous growth of skills in the building industry as a whole, and delivers tailored coaching and education services.

All these activities are performed by a specialized team of green product experts and LEED AP.

QualityNet is a member of Green Building Council Italia



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ETERNO IVICA

Eterno Ivica is a company of Plastic+ Group, in synergy with Italtronic and Plastic Planet.

Plastic+ is a dynamic group of industries with a mission of continuous research and innovation. The Group is constantly developing new solutions, and controls all phases of production, from processing to sales.

Quality management is working all together for the full customer's satisfaction according to ISO 9001:2008 certification and manufacturing is applying continuous improvement methods with special attention to eco-sustainability, promoting use of non-polluting raw materials. Eterno Ivica also applies strict controls to waste disposal and recycled materials are used whenever possible. All-round quality also means a serene, welcoming workplace, and promoting social wellbeing based on collaboration, dialogue and mutual trust among all employees and contractors. Eterno Ivica is proud to have obtained SA 8000 Certification in recognition of ethical policies in the field of social responsibility throughout the production chain.

Eterno Ivica has leading edge production for the green building industry. Products are designed to be in compliance with the request of major building standards, especially LEED.

Eterno Ivica also believes that green buying is of key importance when promoting a sustainable production cycle. Providers of raw materials are selected carefully, and the sustainability features of all product lines are always taken into consideration in order to provide the end customer with a solution that has the minimum possible impact on non renewable resources and on the environment.

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PRODUCT DESCRIPTION: PEDESTAL

The Pedestal system is based on a series of adjustable modular supports that simply and safely adapt to all kinds of floor. It ensures elegant, homogenous paving each time, without having to subject the building to radical structural work. It eradicates problems of damp, water infiltration and can support the accommodation of cables or pipes, at the same time allowing for quick, straightforward inspection.

At the same time, Pedestal system has outstanding sustainability features, mostly related with the design of a “chambered” structure – flooring or roof – and with the components of the product.



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PRODUCT CONTRIBUTION TO LEED CREDITS

SS Credit 6.1 & 6.2 : Stormwater Design – Quantity & Quality Control - 1 Point & 1Point

The intent of this credit is to limit disruption and pollution of natural water flows by managing stormwater runoff.

The building design requires the implementation of a stormwater management plan that reduces impervious cover, promotes infiltration and captures and treats the stormwater runoff from 90% of the average annual rainfall¹ using acceptable best management practices (BMPs).

BMPs used to treat runoff must be capable of removing 80% of the average annual postdevelopment total suspended solids (TSS) load based on existing monitoring reports.

Alternative surfaces such as pervious pavement are capable to reduce imperviousness and promote infiltration and thereby reduce pollutant loadings.

PEDESTAL and WOODECK structures are designed to support and complement a pervious flooring system, regardless of the flooring material used (wood, tiles, etc).

This feature will positively support any Stormwater Management Plan, therefore supporting the credit.

WE Credit 1.1: Water efficient Landscaping - from 2 Point to 4 Points (No potable water use)

The intent of this credit is to limit or eliminate the use of potable water or other natural surface or subsurface water resources available on or near the project site for landscape irrigation.

To obtain this credit It is required to reduce potable water consumption for irrigation by 50% from a calculated midsummer baseline case or using the month with the highest irrigation demand.

One possible strategy is the use of captured rainwater.

Considering the technical features of PEDESTAL and WOODECK previously described, these can be part of an efficient rainwater capturing system, therefore supporting this credit.

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Quick water drainage

The small gap between one slab and another allows water to discharge on to the laying surface and facilitate rapid drainage

EA Prerequisite 2: Minimum Energy Performance

EA Credit 1: Optimize Energy Performance 1–19 Points

The intent of this Prerequisite and this Credit is to establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

The implementation requires to design the building envelope and systems to meet baseline requirements, using a simulation model to assess the energy performance and identify the most cost-effective energy efficiency measures. Final step is quantify energy performance compared with a baseline building.

Pedestal system, as main component of a “chambered” structure, can be part of a ventilated roof.

Ventilated roofs are characterised by a ventilated air space between the insulation coating and the underside of the surface. Ventilated roofs differ from unventilated roofs in their different types of insulation . In a ventilated roof, any moisture is evaporated into the ventilated air space and passed to the outside, and the building will also have advantages as far as thermal performance, due to significant improvement in the thermal transmittance coefficient of the roof (U_w -value).

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Moreover, Pedestal and Woodeck products are made of polypropylene with certified transmittance performance, within limits defined by Italian law (D.L. 26/01/2010)

As a conclusion, still evaluating it as a “static” component not fitting directly into energy modelling figures, it is expected and possible that the use of Pedestal or Woodeck system in a ventilated and chambered roof would significantly reduce the building HVAC cost, therefore supporting this credit.

Recycled Content MR C4 – from 1 to 2 points

The intent of this credit is To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

PEDESTAL is mainly made of recycled polypropylene, mostly originated by the fragmentation of waste moulds and other previously used material subject to be delivered to the appropriate collection facilities.

Considering that some small parts are made with virgin rubber, the assumption is that the products, regardless of specific size, are made with 99% of post-consumer recycled content.

WOODECK is also featuring an aluminium structure: Aluminium used in this line of products generally contains variable % of post-consumer recycled content.

To support this credit ETERNO IVICA can issue the specific declaration in accordance with ISO Standard 14021, providing specific details on the percentage of weight of recycled materials on specific product delivery.

Regional Materials MR C5 – 1 point

Materials are defined as “regional” considering the distance between the producer, located in Padova, Italy, and the building site. According to LEED US NC, a radius of 500 Miles applies, including Italy, Germany, Czech Rep, Slovakia, Austria, Hungary, Serbia, Croatia, Slovenia, France, Belgium, Netherlands, Switzerland. According to LEED ITALIA NC the radius is 1050 Km if transport is by sea or rail, and 350 Km by road.

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Acoustical performance EQ P3 (LEED for Schools) - Prerequisite

Acoustical performance EQ C9 (LEED for Schools) – from 1 to 2 points

The intent of this credit is to provide classrooms that are quiet and in which teachers can speak to the class without straining their voices and students can effectively communicate with each other and the teacher.

It is required to design classrooms and other core learning spaces to meet the Reverberation Time (RT) requirements of ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools. Also, design classrooms and other core learning spaces to meet the Sound Transmission Class (STC) requirements, excepting windows, which must meet an STC rating of at least 35.

OPTION 1 requires using the methodology described in annexes B through D of ANSI Standard S12.60-2002, achieve a maximum background noise level in classrooms and other primary learning spaces of 45 dBA.

45dB or higher = Prerequisite not met: The building cannot be certified

40 to 35dB = 1 point

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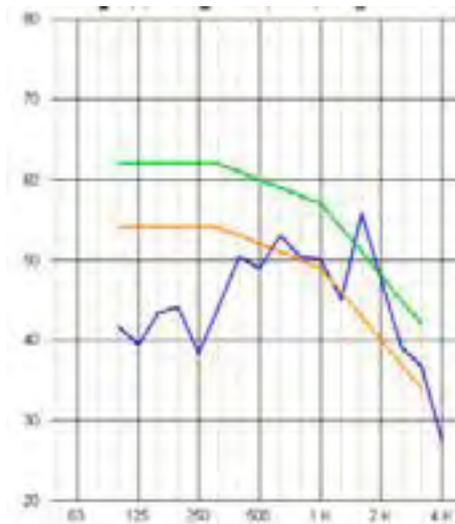
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35dB or lower = 2 points

Thanks to its “bi-component” head, anti-noise and anti-slipping, Eterno pedestal can provide up to 25dB noise reduction level compared to other systems.

“Pedestal Silent” is designed to ensure in a single element all the technical properties of the Eterno adjustable support, plus a double noise reduction given by the bi-component head material and by the closed cell high density insulation foam, 3mm thickness, applied under the base of the support

External flooring fitted with Eterno Ivica Pedestal or Woodeck structure have been tested as far as acoustical performance and contribute to reach a low background noise inside the building, therefore supporting this credit.



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CONCLUSION

QualityNet believes that the described product meets the following significant criteria used in green building initiatives according to LEED NC

LEED Credit	Points	Title	Features
SS C6.1 & 6.2	1 & 1	Stormwater Design – Quality & Quantity Control	Pervious flooring system
WE C1.1	2	Water efficient Landscaping	Supports water capturing systems
EA P2 EA C1	Prerequisite From 1 to 19	Energy Performance	Possible contribution for ventilated roofing system
MR C4	From 1 to 2	Recycled Content	Postconsumer Content
MR C5	1	Regional Materials (when applicable)	Production site defined
EQ P3 & C9 (LEED for Schools)	Prerequisite From 1 to 2	Acoustical Performance	Design & components contribute towards ANSI & STC Standards

While QualityNet believes that certain products have characteristics that may allow users of the products to earn points in a LEED certification, only the Green Building Certification Institute (GBCI) may award points and grant certification. Accordingly, QualityNet does not make any assurances, guarantees, representations, or warranties, express or implied, and specifically disclaims all warranties or representations, that products will earn LEED points, or any project that utilizes such products, will receive LEED® certification.

Product reviewed by: Marco Scopazzi, LEED AP BD+C



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