

EUROBATEX

Evaluation of the contribution to LEED prerequisites/credits

This document describes the main requirements related to the EUROBATEX product range, useful for achieving the main credits of LEED v4.1 certification.

ENERGY & ATMOSPHERE		
EA	PREREQUISITE MINIMUM ENERGY PERFORMANCE	Credits: -
Intent		
To promote resilience and reduce the environmental and economic harms of excessive energy use and greenhouse gas emissions that disproportionately impact frontline communities by achieving a minimum level of energy efficiency for the building and its systems.		
Eurobatax contribution		
EUROBATEX contributes to the energy performance of the building as being part of the construction systems relating to the insulation of ducts and pipes. It contributes directly with thermal conductivity values that vary according to the thickness of the product: from $\lambda \leq 0.033 \text{ W/mK}$ to $\lambda \leq 0.035 \text{ W/mK}$ evaluated at a temperature of 0°C .		
Requirements		
Comply with ANSI/ASHRAE/IESNA Standard 90.1–2016, with errata, or a USGBC-approved equivalent standard.		
EA	OPTIMIZE ENERGY PERFORMANCE	Credits: 1-18
Intent		
To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use and greenhouse gas emissions that disproportionately impact frontline communities.		
Eurobatax contribution		
EUROBATEX contributes to the energy performance of the building as being part of the construction systems relating to the insulation of ducts and pipes. It contributes directly with thermal conductivity values that vary according to the thickness of the product: from $\lambda \leq 0.033 \text{ W/mK}$ to $\lambda \leq 0.035 \text{ W/mK}$ evaluated at a temperature of 0°C .		
Requirements		
Analyze efficiency measures during the design process and account for the results in design decision making. Use energy simulation of efficiency opportunities, past energy simulation analyses for similar buildings, or published data (e.g., Advanced Energy Design Guides) from analyses for similar buildings. Analyze efficiency measures, focusing on load reduction and HVAC-related strategies (passive measures are acceptable) appropriate for the facility. Project potential energy savings and holistic project cost implications related to all affected systems.		



MATERIALS & RESOURCES

MR	ENVIRONMENTAL PRODUCT DECLARATIONS	Credits: 1-2
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Intent

To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products from manufacturers who have verified improved environmental life-cycle impacts.

Eurobatex contribution: option 1

The Eurobatex products have undergone an LCA assessment and have Type III product EPD certification issued by EPDItaly following an Indipendent Supervision. The certification was drawn up in accordance with ISO 14025 and EN 15804 standards.

Requirements

Encourage the use of materials for which life cycle information is available and which guarantee a better economic and environmental impact. In order to comply with the credit requirement it is necessary to use at least 20 materials from 5 different manufacturers with EPD certification compliant with the standards: ISO 14025, ISO 14040, ISO 14044 and EN 15804, with Indipendent Supervision.

MR	SOURCING OF RAW MATERIALS	Credits: 1-2
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Intent

To encourage the use of products and materials for which life cycle information is available and that have environmentally, economically, and socially preferable life cycle impacts. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

Eurobatex contribution

Union Foam confirms the responsible sourcing of its materials by purchasing raw materials from ISO14001 certified suppliers.

It also pledges to support the humanitarian objective of ending violence and human rights violations in the extraction of certain minerals, known as Conflict Minerals , from areas of risk or conflict.

Union Foam is also concretely committed to the use and continuous research of raw materials whose production has a low environmental impact. In particular, all the Eurobatex range is produced using a bio-based plasticizer.

Requirements

Use products sourced from at least three/five different manufacturers that meet at least one of the responsible sourcing and extraction criteria quoted in the protocol for at least 15/30%, by cost, of the total value of permanently installed building products in the project.



INDOOR ENVIRONMENTAL QUALITY

EQ	LOW-EMITTING MATERIALS	Credits: 1-3
Intent		
To reduce concentrations of chemical contaminants that can damage air quality and the environment, and to protect the health, productivity, and comfort of installers and building occupants.		
Eurobatex contribution		
Eurobatex products have been tested according to the Indoor Air Comfort Gold protocol, which, thanks to the positive results achieved, guarantees that the product meets the low VOC emissions required by the LEED protocol.		
Requirements		
Use materials on the building interior that meet the low-emitting criteria.		
EQ	INDOOR AIR QUALITY ASSESSMENT	Credits: 1-2
Intent		
To establish better quality indoor air in the building after construction and during occupancy to protect human health, productivity, and wellbeing.		
Eurobatex contribution: option 2 path 2		
Eurobatex products have been tested according to the Indoor Air Comfort Gold protocol, which, thanks to the positive results achieved, guarantees that the product meets the low VOC emissions required by the LEED protocol.		
Requirements		
Perform a screening test for Total Volatile Organic Compounds (TVOC). Additionally, test for the individual volatile organic compounds listed in Table 2 using an allowed test method and demonstrate the contaminants do not exceed the concentration limits listed in the table.		
EQ	THERMAL COMFORT	Credits: 1
Intent		
To promote occupants' productivity, comfort, and well-being by providing quality thermal comfort.		
Eurobatex contribution		
Eurobatex has an indirect impact on credit achievement. It contributes to the intent by ensuring an acceptable range of operating temperature and humidity through the insulation of ventilation pipes and ducts.		
Requirements		
Design heating, ventilating, and air-conditioning (HVAC) systems and the building envelope to meet the requirements of ASHRAE Standard 55–2017, Thermal Comfort Conditions for Human Occupancy with errata or a local equivalent. Provide individual thermal comfort controls for at least 50% of individual occupant spaces. Provide group thermal comfort controls for all shared multioccupant spaces.		

EQ	ACOUSTIC PERFORMANCE	Credits: 1
Intent		
To provide workspaces and classrooms that promote occupants' well-being, productivity, and communications through effective acoustic design.		
Eurobatex contribution		
Eurobatex contributes to the acoustic insulation, related to background noise of HVAC systems, through insulation of ventilation ducts		
Requirements		
For all occupied spaces, meet two of the following: HVAC background noise, Sound Transmission, and/or Reverberation time.		