


EUROBATEX HF

Evaluation of the contribution to LEED prerequisites/credits

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

 <h2>ENERGY & ATMOSPHERE</h2>		
EA	PREREQUISITE MINIMUM ENERGY PERFORMANCE	Credits: -
Intent <p>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.</p>		
Eurobatex HF contribution <p>EUROBATEX HF 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 a thermal conductivity value $\lambda \leq 0.038$ W/mK evaluated at a temperature of 0 °C.</p>		
Requirements <p>Comply with ANSI/ASHRAE/IESNA Standard 90.1–2016, with errata or a USGBC-approved equivalent standard.</p>		
EA	OPTIMIZE ENERGY PERFORMANCE	Credits: 1-18
Intent <p>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.</p>		
Eurobatex HF contribution <p>EUROBATEX HF 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 a thermal conductivity value $\lambda \leq 0.038$ W/mK, evaluated at a temperature of 0°C.</p>		
Requirements <p>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.</p>		



MATERIALS & RESOURCES

MR

ENVIRONMENTAL PRODUCT DECLARATIONS

Credits:
1-2

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 HF contribution: option 1

The Eurobatex HF products have undergone an LCA assessment and have Type III product EPD certification issued by EPDItaly following an Independent 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 Independent Supervision.

MR

SOURCING OF RAW MATERIALS

Credits:
1-2

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 HF 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.

Requirements

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



INDOOR ENVIRONMENTAL QUALITY

EQ

THERMAL COMFORT

Credits:
1

Intent

To promote occupants' productivity, comfort, and well-being by providing quality thermal comfort.

Eurobatex HF contribution

Eurobatex HF has an indirect impact on credit achievement.

It contributes 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 HF contribution

Eurobatex HF 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.