

EUROBATEX HF



Evaluation of the contribution to LEED prerequisites/credits, related to EUROBATEX HF product range



LEED Categories		LEED Credits	LEED Requirements	Scores	EUROBATEX HF Compliance or contribution
EA	Prerequisites: minimum energy performance	Option 1. Energy for the whole building, simulation	Reduce the environmental and economic impact due to excessive energy consumption. The energy calculation is carried out by using a dynamic simulation model based on the ANSI/ASHRAE/IESNA 90.1-2010 standard, Appendix G Errata. Compared to the standard referenced building, an improvement of 5% is required for new construction projects, 3% for major renovations and 2% for core and shell projects. Compliance with the mandatory provisions of the ASHRAE 90.1-2010 standard is also required.	—	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. Eurobatex HF contributes directly, with a thermal conductivity parameter of $\leq 0,040$ W/mK (assessed at a temperature of 40 °C), to satisfy the requirements shown in tables 6.8.2 A and B and 6.8.3. For more details on the values, please refer to the product data sheet.
EA	Energy performance optimization	Option 1. Energy for the whole building, simulation	The credit requires to demonstrate the improvement of the designed building compared to the reference baseline. The score awarded depends on the percentage of improvement obtained: 1 to 18 points are available with improvement percentages ranging from 6% to 50% for new buildings.	18	
MR	Building Life-Cycle Impact Reduction	Option 4. Whole Building Life-Cycle Assessment	Encourage adaptive reuse and optimize the environmental performance of products and materials. Give priority to the recovery/recycle of building materials, the maintenance of existing structures and envelopes through the recovery of the building or, in the case of new construction, the assessment of the life cycle of the entire building.	3	EUROBATEX HF has a Life Cycle Assessment (LCA). It contributes, with accurate data, to the LCA study of the entire building.
MR	Building Product Disclosure and Product Optimization - Environmental Product Declaration	Option 1. Product with Environmental Product Declaration (EPD)	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, with Independent Supervision, compliant with the standards: ISO 14025, ISO 14040, ISO 14044 and EN 15804.	1	Union Foam provides the EPD certification, third party verified by EPD Italy, for EUROBATEX HF range of products. The certification complies with ISO 14025 and EN 15804 standards.
EQ	Thermal Comfort	Thermal Comfort Design Option 1. ASHRAE Standard 55-2010 Option 2. ISO and CEN Standard	Provide an adequate level of thermal comfort to promote productivity, comfort and well-being of occupants. The building should provide the design of HVAC systems according to ASHRAE 55-2010 with assessment of the thermal environmental conditions. Alternatively, an analysis of thermal comfort is required in accordance with the standards: ISO 7730: 2005 and EN 15251: 2007.	1	EUROBATEX HF has an indirect impact on the achievement of the credit, as it contributes by thermally insulating ducts and ventilation vessels, thus preventing condensation of humidified air. EUROBATEX HF has a value of water vapour diffusion resistance factor equal to $\mu \geq 2000$.
EQ	Acoustic Performances	Background noise of HVAC systems	Provide, through careful acoustic design, spaces that promote occupant well-being, productivity and communications. The background noise levels of HVAC systems should comply with the standards: - 2011 ASHRAE Handbook for HVAC Applications, Chapter 48, table 1 - AHRI 885-2008, table 15 or equivalent room. The sound transmission class and reverberation time must comply with the tables specified in these standards.	1	EUROBATEX HF contributes, as insulation material, to the reduction of the background noise of HVAC systems.