



Helping you achieve LEED® Certifications


MBI


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Is a light density metal building insulation faced with reinforced polypropylene.

Objective for this document is to evaluate the existing information, derived from specialized studies and analysis, of the products selected by Owens Corning and determine the characteristics and properties of the same that meet the criteria of sustainable performance based on the standards, norms and criteria of the LEED v4 and LEED v4.1 certification.

LEED® Certification and the awarding of credits, is based on the overall project design, properly designed building systems and assemblies, and the performance of the project as a whole. Owens Corning® products can be a component of many of these systems and assemblies. All components within those systems and assemblies should be considered to assess compliance with the LEED® Rating System within a given category.

Credit Category	Leed® V4 Requirement	Leed® V4.1 Requirement	Owens Corning® Product Comparison
Energy and Atmosphere (EA)			
 Minimum Energy Performance	Reduce the environmental and economic harms of excessive energy use by achieving a minimum level of energy efficiency for the building and its systems.	Promote resilience and reduce the environmental and economic harms of excessive energy use that disproportionately impact frontline communities by achieving a minimum level of energy efficiency for the building and its systems.	MBI contributes to reducing building energy consumption, providing the building with a more efficient envelope. The project team is responsible for conducting energy analysis to determine the overall building energy efficiency. See individual product data sheets for technical details.
	Optimize Energy Performance	Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.	Achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use that disproportionately impacts frontline communities.

Materials and Resources (MR)			
 Product Declarations	Option 1. environmental product declaration: Use at least 20 different permanently installed products sourced from at least five different manufacturers that meet the disclosure criteria.	Option 1. Environmental Product Declaration (EPD) Use at least 20 different permanently installed products sourced from at least five different manufacturers that meet one of the disclosure criteria. (10 different permanently installed products from three different manufacturers for CS and Warehouses & Distribution Centers)	The product has Type III certification (Products with third-party certification), which contributes to credit compliance by contributing 1 product in V4 and 1.5 products in V4.1 to the calculation. Environmental Product Declarations No.4790365982.102.1
	BPDO- Sourcing of Raw Materials	Option 2. leadership extraction practices: Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project.	Use products sourced from at least three different manufacturers that meet at least one of the responsible sourcing and extraction criteria below for at least 15%, by cost, of the total value of permanently installed building products in the project. Use products sourced from at least five different manufacturers that meet at least one of the responsible sourcing and extraction criteria below for at least 30%, by cost, of the total value of permanently installed building products in the project.

Materials and Resources (MR)

<p>BPDO- Sourcing of Raw Materials</p>	<p>Option 1. Material Ingredient Reporting Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm)</p>	<p>Option 1. Material Ingredient Reporting Use at least 20 different permanently installed products from at least five different manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm). (10 different permanently installed products from at least three different manufacturers for CS and Warehouses & Distribution Centers)</p>	<p>HPD (Health Product Declaration) with a transparency level of 1000 ppm is delivered. Health Product Declaration No. 30836</p>
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Indoor Environmental Quality (EQ)


	<p>Thermal Comfort</p>	<p>Design HVAC systems and building envelope to meet ASHRAE Standard 55-2010, Thermal Comfort Conditions for Human Occupancy with errata or a local equivalent .</p>	<p>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.</p>	<p>MBI® contributes to a comfortable thermal environment. See individual product data sheets for details, and check with a local sales representative for product applications.</p>
	<p>Acoustic Performance</p>	<p>For all occupied spaces, meet the following requirements, as applicable, for HVAC background noise, sound isolation, reverberation time, and sound reinforcement and masking.</p>	<p>For all occupied spaces, meet two of the following: HVAC background noise, Sound Transmission, and/or Reverberation time. Meet all three for an exemplary performance point. Confirm compliance via calculations or measurements in representative rooms, and/or design documentation from a person experienced in the field of acoustics.</p>	<p>MBI® is effective in reducing noise transfer through building assemblies and improving room sound quality. Check with local sales representatives for product applications.</p>

Figure 1 - Owens Corning® MBI® Plant Locations



To view other Owens Corning® products that help contribute to LEED® certification please visit sustainability.owenscorning.com

