



Lunawood ThermoWood® product contribution to LEED and BREEAM

Lunawood product contribution



1 LEED v4 & v4.1

Credit name	Lunawood contribution	Credit contribution
MRc2 Environmental Product Declarations v4 & v4.1	Option 1: All Lunawood Thermowood of pine and spruce have a product specific type III EPD*.	1 credit can be achieved if 20 products from 5 different manufacturers are used in the project. Products are valued at following product score: v4 valued at 1 product and v4.1 valued at 1,5 product.
MRc3 Building Product Disclosure and Optimization - Sourcing of Raw Materials v4	Option 2: All Lunawood Thermowood are available as certified by the Forest Stewardship Council (FSC).	All products are valued at 100% of their cost for the purpose of credit achievement calculation. 1 credit can be achieved if at least 25%, by cost, of the total value of permanently installed building products meet the credit criteria in the project.
MRc3 Sourcing of Raw Materials v4.1	All Lunawood Thermowood are available as certified by the Forest Stewardship Council (FSC).	All products are valued at 100% of their cost for the purpose of credit achievement calculation. Up to 2 credits can be achieved if at least five different manufacturers and 30%, by cost, of the total value of permanently installed building products meet the credit criteria in the project.
MRpc102 ACP Legal Wood (MRc3)	All Lunawood Thermowood are available as certified by the Forest Stewardship Council (FSC). Additionally, all Thermowood of pine and spruce are also available as certified by the Programme for the Endorsement of Forest Certification (PEFC). Both certifications include full Chain of Custody (CoC) certification.	All products meet the criteria for legal, responsible, and certified wood at 100% of their cost for the purpose of credit achievement calculation. 1 credit can be achieved if all wood in the project is from Legal Sources and at least 70 % is from Responsible Sources. Structural framing and general dimensional framing, flooring, sub-flooring, wood doors and finishes should be considered at minimum.

Credit name	Lunawood contribution	Credit contribution
MRc2, MRc3 Locally Sourced Products v4 & v4.1	Lunawood's production plants are located in Iisalmi and Kaskinen (Finland) and Cleveland, Georgia (US). Extraction and purchase of the product varies.	All products are valued at 200% of their cost for the purpose of credit achievement calculation if the project site is located within 160 km or 100 mile radius of the extraction, manufacturing, and purchase.
IEQc2 Low-emitting Materials v4 & v4.1	<p>Lunawood's Thermowood is an inherently nonemitting material (unfinished solid wood) that has no binders, surface coatings, or sealants that include organic chemicals. Only products used in interior applications are considered.</p> <p>In some cases, products may have surface coatings or sealants applied on plant. Please ask for further information about low-emitting criteria compliance if product has finishes.</p>	<p>v4: The products contribute to achieving criteria in the flooring, composite wood, or "ceilings, walls, thermal, and acoustic insulation" category.</p> <p>1-4 credits available based on the number of low-emitting categories fulfilled in the project.</p> <p>v4.1: The products contribute to achieving criteria in the flooring, wall panels, ceiling, or composite wood category.</p> <p>1-4 credits available based on the number of low-emitting categories fulfilled in the project.</p>

2 LEED v5

Credit name	Lunawood contribution	Credit contribution
MRc3 Low-emitting Materials	<p>Lunawood's Thermowood is an inherently nonemitting material (unfinished solid wood) that has no binders, surface coatings, or sealants that include organic chemicals. Only products used in interior applications are considered.</p> <p>In some cases, products may have surface coatings or sealants applied on plant. Please ask for further information about low-emitting criteria compliance if product has finishes.</p>	The products contribute to achieving criteria in the flooring, walls, ceiling, or composite wood category. 1-2 credits available based on the number of low-emitting categories fulfilled in the project.
MRc4 Building Product Selection and Procurement	<p>All Lunawood Thermowood of pine and spruce have a product specific type III EPD*.</p> <p>All Lunawood Thermowood are available as certified by the Forest Stewardship Council (FSC). Additionally, all Thermowood of pine and spruce are also certified by the Programme for the Endorsement of Forest Certification (PEFC).</p>	<p>The products contribute to achieving criteria in the flooring, walls, ceilings, or composite wood categories. Products with EPD's gain Multi-Attribute Score of 1 and products with FSC or PEFC gain Multi-Attribute Score of 1. With both EPD and FSC/PEFC Multi-Attribute Score equals 2.</p> <p>1-5 credits available based on the number of product categories compliant in the project.</p>

3 BREEAM v6 New Construction (NC) & Refurbishment and Fit-Out (RFO)

Credit name	Lunawood contribution	Credit contribution
MAT 01 Life Cycle Impacts NC & RFO	All Lunawood Thermowood of pine and spruce have a product specific type III EPD*.	1 credit requires four other products with EPD from different manufacturers in addition to Lunawood product. 1 exemplary credit requires 9 other products with EPD from different manufacturers in addition to Lunawood product.
MAT 03 Responsible Sourcing of Materials NC & RFO	All Lunawood Thermowood are available as certified by the Forest Stewardship Council (FSC). Additionally, all Thermowood of pine and spruce are also available as certified by the Programme for the Endorsement of Forest Certification (PEFC).	All Lunawood Thermowood products contribute achieving the prerequisite of legally harvested and traded timber. Lunawood Thermowood can also contribute to achieving responsible sourcing credits, as FSC and PEFC certificates are BREEAM recognized responsible sourcing certification scheme.
HEA 02 Indoor Air Quality NC	<p>Lunawood's Thermowood is an inherently nonemitting material (unfinished solid wood) that has no binders, surface coatings, or sealants that include organic chemicals. Only products used in interior applications are considered.</p> <p>In some cases, products may have surface coatings or sealants applied on plant. Please ask for further information about low-emitting criteria compliance if product has finishes.</p>	<p>The products contribute to achieving criteria in the wood-based products category. Eligible products for standard and exemplary credit.</p> <p>1 credit available where a minimum of four product types demonstrate compliance with the specified emission limit criteria.</p> <p>1 exemplary credit available where the requirements for the standard credit are met and, in addition, at least four product types demonstrate compliance with the more stringent emission limit criteria.</p>

Credit name	Lunawood contribution	Credit contribution
HEA 02 Indoor Air Quality RFO	<p>Lunawood's Thermowood is an inherently nonemitting material (unfinished solid wood) that has no binders, surface coatings, or sealants that include organic chemicals. Prohibited wood preservatives or biocides are not used in manufacturing. Only products used in interior applications are considered.</p> <p>In some cases, products may have surface coatings or sealants applied on plant. Please ask for further information about low-emitting criteria compliance if product has finishes.</p>	<p>The products contribute to achieving criteria in the wood-based products category. Eligible products from the standard and exemplary credit.</p> <p>1 credit and 2 exemplary credits available where the requirements for standard credit (pain and varnishes) are met and, in addition, the rest of the seven product types demonstrate compliance with more stringent emission limit criteria (formaldehyde $\leq 0,01$ mg/m³ air).</p>
MAT 05 Designing for Durability and Resilience NC & RFO	<p>LunaThermo D-class materials carry the KOMO quality mark for decay resistance, ensuring durability with reduced degradation. BRE, the UK's independent research body, estimates a 30-year service life for LunaThermo-D in cladding and decking.</p>	<p>The products contribute to achieving criteria for protection of exposed parts of the building from material degradation.</p> <p>1 credit available, where protection measures from damage and material degradation are implemented.</p>

4 BREEAM v7

Credit name	Lunawood contribution	Credit contribution
MAT 02 Environmental Product Declaration	All Lunawood Thermowood of pine and spruce have a product specific type III EPD*.	The products contribute to achieving criteria in the timber or timber-based material category. 1 credit available, where 20 building products have recognised types of EPD. Lunawood Thermowood EPD of pine and spruce will grant 0,75 product points, when used in the building.
MAT 03 Responsible Sourcing of Construction Products	All Lunawood Thermowood are available as certified by the Forest Stewardship Council (FSC). Additionally, all Thermowood of pine and spruce are also available as certified by the Programme for the Endorsement of Forest Certification (PEFC).	All Lunawood Thermowood products contribute achieving the prerequisite of legally harvested and traded timber. Lunawood Thermowood can also contribute to achieving responsible sourcing credits, as the FSC and PEFC certificates are BREEAM recognized responsible sourcing certification schemes.
HEA 04 Indoor Air Quality	<p>Lunawood's Thermowood is an inherently nonemitting material (unfinished solid wood) that has no binders, surface coatings, or sealants that include organic chemicals. The products are also automatically classified as E1 as no formaldehyde is added during production. Only products used in interior applications are considered.</p> <p>In some cases, products may have surface coatings or sealants applied on plant. Please ask for further information about low-emitting criteria compliance if product has finishes.</p>	<p>The products contribute to achieving criteria in the wood-based products category. Eligible products for standard and exemplary credit.</p> <p>1-2 credits available where three of five product types or all product types demonstrate compliance with the specified emission limit.</p> <p>1-2 exemplary credit available where four of five product types or all product types demonstrate compliance with the more stringent emission limit criteria.</p>
MAT 04 Durability and resilience	LunaThermo D-class materials carry the KOMO quality mark for decay resistance, ensuring durability with reduced degradation. BRE, the UK's independent research body, estimates a 30-year service life for LunaThermo-D in cladding and decking.	<p>The products contribute to achieving criteria for protection of exposed parts of the building from material degradation.</p> <p>1 credit available, where protection measures from damage and material degradation are implemented.</p>

*EPD's available only for pine and spruce products from Finland. US product EPD's are under development.