

Longboard LEED v4.1 Exterior Systems Summary Sheet – Building

Design and Construction (BD+C)





Item No.	Category	Applicable products	LEED Credit, Intent, Pathway, and Longboard Contribution	Points
1.	Energy & Atmosphere	 The Hitch™ cladding attachment system SimpL Clip system 	 EA Credit: Optimized Energy Performance All Pathways Intent: To achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use. 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 from analyses for similar buildings. Points based on percentage improvement in energy performance. Solution: Save energy by using the Longboard Cladding Attachment systems which allows for exterior insulation. Exterior insulation has proven to be 40% more effective than interior cavity insulation, decreasing demand on the building HVAC system. Supporting Documents: Morrison Hershfield and RDH Report on Thermal Performance. 	BD+C: 1-20 points ID+C: 1-24 points
2.	Materials & Resources	 All Longboard Exterior Systems- Extruded Aluminum Products All Longboard ECO™ Products 	MR Credit: Building Life Cycle Impact reduction BD+C Option 4. Whole-Building Life-Cycle Assessment ID+C Option 3. Building Interiors Life-Cycle Assessment Intent: To encourage adaptive reuse and optimize the environmental performance of products and materials. Requirements: Conduct a life-cycle assessment of the project's structure and enclosure, or interior (based on LEED rating system). Earn points based on percentage reduction of LEED's impact category points. Solution: Longboard products have lower embodied carbon when compared to industry average. Use Longboard third party-certified Product EPD for Whole Building LCA Calculations. Supporting Documents: Longboard Product-specific Type III EPDs: • Primary: https://longboardproducts.com/s/LONGBOARD- EPD_PRIMARY-ALUMINUM.pdf • ECO: https://longboardproducts.com/s/LONGBOARD- EPD_RECYCLED-ALUMINUM.pdf	BD+C: 1-4 points ID+C: 1-3 points
3.	Materials & Resources	 All Longboard Exterior Systems- Extruded Aluminum Products All Longboard ECO[™] Products 	 MR Credit: Building Product Disclosure and Optimization – Environmental Product Declaration Option 1. Environmental Product Declaration (EPD) 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. Requirements: Use permanently installed products sourced from different manufacturers that meet LEED's LCA and EPD criteria. Required number of products and manufacturers depend on building and project type. Solution: Longboard's Product-specific Type III EPDs are valued as 1.5 products for the purposes of credit achievement calculation. 	BD+C: 1-2 points ID+C: 1-2 points

			Supporting Documents: Longboard Product-specific Type III EPDs: Primary: <u>https://iongboardproducts.com/s/LONGBOARD-EPD_PRIMARY-ALUMINUM.pdf</u> ECO: <u>https://iongboardproducts.com/s/LONGBOARD-EPD_RECYCLED-ALUMINUM.pdf</u>	
4.	Materials & Resources	 All Longboard ECO™ Products 	 MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials Recycled Content 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. Requirements: 20-40% of products, by cost, sourced from different manufacturers based on LEED's responsible sourcing and extraction criteria. Recycled content is the sum of postconsumer recycled content plus one-half the pre-consumer recycled content, based on weight. Solution: Longboard ECO[™] products offer a minimum 50% pre- consumer recycled content. Supporting Documents: Contact your Longboard for recycled material option selection, and for Supplier Letter confirming recycled content. 	BD+C: 1-2 points ID+C: 1-2 points
5.	Materials & Resources:	 All Longboard Exterior Systems- Extruded Aluminum Products All Longboard ECO™ Products 	 MR Credit: Building Product Disclosure and Optimization – Material Ingredients Option 1. Material Ingredient Reporting 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. Requirements: Use permanently installed products sourced from different manufacturers that used LEED's approved programs that demonstrate product chemical inventory. Required number of products and manufacturers depend on building and project type. Solution: All Longboard products meet the Declare Label "Red List Free" status. Supporting Documents: Longboard Declare Product Label ID MYN-0001 - https://declare.living-future.org/products/longboard- products-plank-dauntless-link-and-lock-beam-system 	BD+C: 1-2 points ID+C: 1-2 points

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