

Longboard® is maintenance free, 100% recyclable, will not warp, rot or split and is non-combustible and is also ideal for interior use as it gives off zero emissions and the manufacturing process is VOC Free (Volatile Organic Compounds).

▶ **Energy & Atmosphere**

Optimized Energy Performance

EA Credit 1

Goal - Reduce energy use in building operation through a variety of means.

Solution - Save energy by using the Longboard backframing system which allows for exterior insulation. Exterior insulation has proven to be 40% more effective than interior insulation, decreasing demand on building HVAC systems.

Supporting Documents: Morrison Hershfield Report
"Thermal Performance of Longboard Architectural Sub-Girt System Cladding Clips"

▶ **Materials & Resources**

Construction Waste Management

MR Credit 2.1, 2.2

Goal - Divert construction and demolition debris from disposal in landfills and incineration facilities through recycling or salvaging.

Solution - Longboard aluminum soffit and siding is 100% recyclable.

Supporting Documents: The Aluminum Association "LEED™ Fact Sheet Aluminum Sheet & Plate for the Building & Construction Market"

▶ **Materials & Resources**

Regional Materials

MR Credit 5.1, 5.2

Goal - Use at least 10% of building materials and products that are extracted and manufactured within the region for 1 point and 20% of regionally collected materials for an additional point.

Solution - The majority (85%) of our aluminum is sourced from a supplier that is within 80 Kilometres of our plant.

Supporting Documents: APEX Aluminum Extrusions Ltd, "Regionally Sourced Materials"

▶ **Materials & Resources**

Durable Building

MR Credit 8

Goal - Minimize materials use and construction waste over a building's life resulting from premature failure of the building and its constituent components and assemblies.

Solution - Aluminum siding can last up to 40 years or more if properly maintained.

Supporting Documents: InterNACHI's Estimated Life Expectancy Chart

▶ Indoor Environmental Quality

Low-Emitting Materials: Paints and Coatings

IEQ Credit 4.2

Goal - Reduce the quantity of indoor air contaminants.

Solution - The high performance powder coating on Longboard products is completely VOC free.

Supporting Documents: Mayne Coatings Corp., "Aluminum Powder Coatings VOC Free Certification Letter"

▶ Indoor Environmental Quality

Thermal Comfort: Compliance

IEQ Credit 7.1

Goal - Provide a thermally comfortable environment that supports the productivity and well-being of building occupants.

Solution - The aluminum siding backframing system allows for external insulation, which helps the building to maintain an indoor level of comfort at greater energy efficiency than interior insulation solutions.

Supporting Documents: Morrison Hershfield Report
"Thermal Performance of Longboard Architectural Sub-Girt System Cladding Clips"

▶ Innovative Design

Innovation in Design

ID Credit 1

Goal - Employ sustainable strategies not specifically addressed in other LEED credits.

Solution - Longboard Siding & Soffit has a Super Durable Standard Powder Coating Finish called Alluminate that has all the aesthetic aspects of real wood. The unique sublimation process creates a believable woodgrain look while providing the durability needed on exterior products.

Supporting Documents: "Decoral Quality Book"
