

## LEED

LEED is the nationally accredited benchmark developed by USGBC (United States Green Building Council) and is a voluntary green building certification.

LEED (Leadership in Energy and Environmental Design) promotes a whole-building approach to sustainability in eight key areas: Location and Transportation, Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, Innovation, and Regional Priority.

Even though LEED does not certify products or services, specifying ChamClad can help your projects earn LEED points within the following credits, most commonly under BD+C: New Construction and ID+C: Commercial Interiors for versions 4 and 4.1.

ChamClad has published material transparency and environmental impact disclosures to highlight sustainable product attributes and provide its customers multiple options to find the right products for their installation.

LEED v4.1 Credit Library: <https://www.usgbc.org/credits?Version=v4.1>

### MATERIALS & RESOURCES (MR) Credit: Material Ingredients (1-2 Points Possible)

#### Design 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. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

#### Requirements

Under Option 1. Material Ingredient Reporting, use at least 20 unique qualifying products from at least five different manufacturers to earn 1 point. A chemical inventory of at least 1,000 ppm is required. Reports with Third-Party Verification of content inventory are worth an additional 0.5 products. Project teams may additionally pursue Option 2. Material Ingredient Optimization to earn a second point, achieving the maximum 2 points possible.

#### Strategy

Under Option 1, the Third-Party Verified Health Product Declarations (HPDs) for Exterior Wall Panels, Soffit Products and Interior Wall/Ceiling Products, and Column and Beam Wrap contribute 1.5 products to the required total of 20 unique qualifying products from five different manufacturers.

All valid Health Product Declarations are published in the HPD Public Repository: <https://hpdrepository.hpd-collaborative.org/Pages/Results.aspx>

### MATERIALS & RESOURCES (MR) Credit: Sourcing of Raw Materials (1-2 Points Possible)

#### Design 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. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

#### Requirements

Use a minimum of 15% combined project value in building materials and products from at least three different manufacturers that meet at least one of the responsible sourcing and extraction criteria to earn 1 point. To earn the maximum 2 points, use a minimum of 30% combined project value in building materials and products from at least five different manufacturers that meet at least one of the responsible sourcing and extraction criteria.

#### Strategy

All ChamClad products use 100% post-industrial/pre-consumer recycled PVC. Further, aluminum extrusions used for aluminum trim components contain 46% pre-consumer recycled content.

LEED calculates total Recycled Content as the sum of post-consumer plus one-half of pre-consumer, based on weight. Total Recycled Content is multiplied by the product cost to determine Recycled Content value. This Recycled Content value then contributes to the credit's total sustainable criteria value as a final percentage of total materials cost. The sustainable criteria value must be at least 15% of the total materials cost to earn 1 point and 30% to earn 2 points and must cite at least three and five different manufacturers, respectively.

### MATERIALS & RESOURCES (MR) Credit: Environmental Product Declarations (1-2 Points Possible)

#### Design 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. To reward project teams for selecting products verified to have been extracted or sourced in a responsible manner.

#### Requirements

Under Option 1. Environmental Product Declaration (EPD), use at least 20 different permanently installed products from at least five different manufacturers that meet disclosure criteria for Environmental Product Declarations.

### Strategy

ChamClad's EPDs are product-specific Type III EPDs conformant to ISO 14025 with cradle-to-grave scope and with external verification and external critical review, valued as 1.5 products within this credit. Find ChamClad EPDs in the International EPD System's EPD Library: <https://environdec.com/library>

- [ChamClad® Exterior Cladding, ½" thick](#)
- [ChamClad® Soffit Products and Interior Wall/Ceiling Products, 3/8" thick](#)
- [ChamClad® Column and Beam Products](#)

### Pilot Credit: Circular Products (1 Point Possible)

#### Design Intent

To reward project teams for selecting products that support the circular economy. To reward products that are manufactured with zero waste, designed to be cycled multiple times through repair or remanufacturing, and are recovered at the end of their useful life to be remade into new products.

#### Requirements

Use at least 5 permanently installed products from 3 manufacturers that demonstrate achievement of a qualifying circular product report.

### Strategy

#### Designed for Circularity

ChamClad has published public type III EPDs that includes an analysis of the lifecycle impacts from cradle-to-grave.

### Pilot Credit: Procurement of Low Carbon Construction Materials (2 Points Possible)

#### Design Intent

To reduce the embodied carbon of materials used in construction.

#### Requirements

Step 2 – Verified Reduction Calculation. Utilizing a third party verified Environmental Product Declaration and approved calculation methodology, determine the material embodied carbon intensity for the materials used in the project.

### Strategy

ChamClad has published public type III EPDs that includes an analysis of the lifecycle impacts from cradle-to-grave.