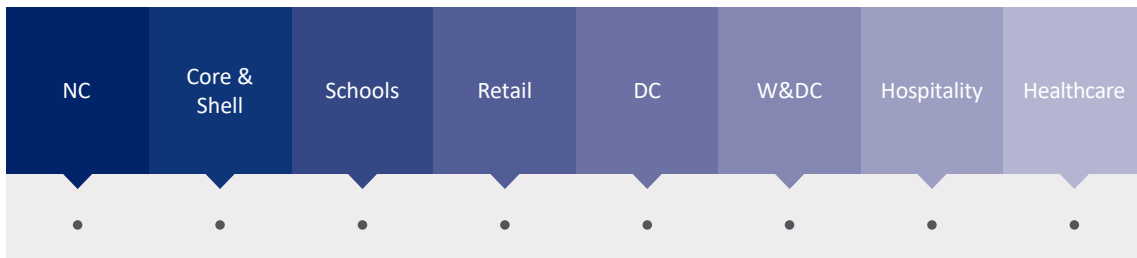




## LEED CATEGORY MATERIALS AND RESOURCES

1-2  
points

### REVELATION AND OPTIMIZATION OF THE PRODUCTS OF THE BUILDING– ENVIRONMENTAL PRODUCT DECLARATION



#### OBJECTIVE

##### Optimization of the product and disclosure - Environmental Product Declaration

Promote the use of products and materials that have information about their life cycle and that demonstrate a reduction in the impacts associated with it.

##### ASSESSMENT PROCEDURE

Achieve one or more of the following options, for a maximum of 2 points.

##### **Option 1: Environmental Product Declaration (EPD). (1 Point)**

Ensure that at least 20 of the products installed permanently in the building (from 5 different manufacturers) comply with the following criteria:

- Public LCA carried out in accordance with ISO 14044 cradle to gate.
- Generic industry EPD (Type III).
- Product specific EPD (Type III).

##### **Option 2: Optimization of characteristics. (1 Point)**

Ensure that 10% of the products installed permanently in the building (calculated according to the cost) or at least 10 products installed permanently come from at least three different manufacturers. The products shall be assessed as follows: Action plan to reduce the impact of the life cycle (value of 50% by cost or ½ product):

The manufacturer must have an LCA of the product according to EN 15840 or ISO 21930, and must have a publicly available action plan to mitigate or reduce the impacts of the life cycle.

The action plan must be specific to the product, using the specified functional unit, it must be critical, reviewed, and must include the following information:

- Description of the life cycle carried out, including all of the data, the software or the platform used by the manufacturer to complete the analysis.
- Identification of the areas of greatest impact in the life cycle identified in the analysis, and narrative description of the impact areas targeted for reduction in the action plan.
- Description of the specific steps planned for the implementation of the action plan. Include changes suggested in the formulation or manufacturing processes that are planned as part of the impact reduction strategy.
- Specific dates and a full timeline for completion of all of the steps described in the action plan.

Reduction of embedded carbon over the life cycle.

Based on an EPD verified by an independent third party, or a verified LCA that complies with the comparability requirements of ISO 14025 and ISO 21930. An impact reduction must be demonstrated in the impact category of global warming potential (GWP) and at least a 5% reduction must be demonstrated in two additional impact categories. It is necessary to give a narrative describing how the impact reductions were achieved. The comparisons published must be verified by third parties.

Impact categories to reduce:

- Potential for global warming (CO<sub>2</sub> eq.)
- Destruction of the ozone layer (kg of CFC-11)
- Acidification of the soil and water sources (moles H<sup>+</sup> or kg SO<sub>2</sub>)

- Eutrophication
- Tropospheric ozone formation (kg of NO or kg of C<sub>2</sub>H<sub>4</sub>)
- Depletion of non-renewable energy sources (MJ)

Products that come from within a radius of less than 160km from the site of the project (whether extracted, manufactured or purchased), shall count for double their cost, up to a maximum of 200%.

#### COMPLIANCE WITH THE REQUIREMENTS

**The CUPACLAD® rainscreen cladding systems are in the process of renewing an EPD (environmental product declaration) type III in compliance with ISO 14025 and EN 15804, which may contribute to obtaining points for this credit.**

#### REFERENCE STANDARD

- ISO 14040 – 2006
- ISO 14044 – 2006
- ASHRAE 90.1-2010
- EN 15804
- ISO 14025

#### ADDITIONAL DOCUMENTATION

- Datasheets: <https://www.cupapizarras.com/es/cupaclad/>
- EDP of the CUPACLAD® system.
- EDP of the screws.

#### Notes

1. The information contained in this document corresponds to a study into the possibility of fulfilling the credits for LEED environmental certification according to the information provided by the company. This document does not constitute a certification of the product, nor does it guarantee compliance with local applicable laws.
2. Obtaining the percentage of impact reduction, or the points for the certification, depends on actions across all of the materials and products used in the construction of the building to be certified.
3. The conclusions of this study apply only to the products mentioned in this report and are subject to the technical conditions of the product remaining the same, as well as the requirements of the environmental certifications systems that are the subject of the study.
4. This document gives information on the possible contribution of the products studied towards obtaining the LEED certificates. However, the final decision as to whether or not a product complies with the LEED certification is exclusively down to the GBCI (Green Business Certification Inc).