Environmental Product Declaration: Option 1, EPD

This section summarizes the product documentation parameters to be reviewed to determine compliance with this credit in the BD+C and ID+C rating systems.

Credit Overview

To view detailed LEED v4.1 credit requirements, visit:

BD+C v4.1 Environmental Product Declarations

ID+C v4.1 Environmental Product Declarations

Option 1

BD+C: Use at least 20 different permanently installed products sourced from at least 5 different manufacturers that meet the disclosure criteria below*

*CS and W&DC require 10 products from 3 manufacturers

ID+C: Use at least 10 different permanently installed products sourced from at least 3 different manufacturers that meet the disclosure criteria below

Exemplary Performance

BD+C: Use at least 40 different permanently installed products sourced from at least 10 different manufacturers that meet the disclosure criteria below*

*CS and W&DC: Use at least 20 products from 5 different manufacturers

ID+C: Use at least 20 different permanently installed products sourced from at least 5 different manufacturers that meet the disclosure criteria below

Compliance Requirements At-A-Glance

All of the applicable requirements in the table below must be visible in the product document to be eligible for LEED v4.1.

REQUIREMENTS	REQUIRED FOR:			
	Product-Specific LCA	Industry-wide Type III EPD	Product-Specific Type III EPD	
Contribution in Credit/Valuation	1 product	1 product	1 product	1.5 products
Product type, name, SKU, and description	✓	✓	✓ or	✓
Unique document ID number of the report	✓	✓	✓ or	✓
Declaration holder or producer with contact info (typically the manufacturer)	✓	✓	✓ or	✓
Program operator (entity that creates and registers the EPD)		✓	✓ or	✓
Name and credentials of person conducting the LCA	✓			
LCA independent verifier's name and:				
Internally verified	✓	✓	✓	
Externally verified				✓
ISO 14025 compliance (Type III EPD), EPD independent reviewer's / entity's name and statement:				
Internally verified			✓	
Externally verified		✓		✓
ISO 21930 or EN 15804 compliance (not applicable for furniture)		✓	✓ or	✓
Include functional unit	✓	✓	✓ or	✓
Manufacturing location(s) indicated in document & global regions covered	✓	✓	✓ or	✓
Minimum scope of LCA: cradle to gate[a]	✓	✓	✓ or	✓
Document publicly available and (if published after July 1, 2021) a URL link provided	✓	✓	✓ or	✓

All 6 impact categories listed[b]	✔	✔	✔	or	✔
Validity period included	✔	✔	✔	or	✔
Indicate type of LCA software used	✔	✔	✔	or	✔
Reference PCR is cited	✔	✔	✔	or	✔
ISO 14044 compliance	✔	✔	✔	or	✔
Manufacturer is recognized as a participant by the program operator		✔			

a. Cradle-to-gate assessment: analysis of a product's partial life cycle, from resource extraction (cradle) to the factory gate (before it is transported for distribution and sale). It omits the use and the disposal phases of the product. (A1, A2, and A3).
b. The six impact categories required for the EPD credit are: depletion of the stratospheric ozone layer, acidification of land and water sources, eutrophication, formation of tropospheric ozone, and depletion of nonrenewable energy resources.

Additional Guidance

The following guidance is made available in addition to guidance provided under 'Further Explanation' section of the LEED v4.1 BD+C or LEED v4.1 ID+C beta Reference Guide.

- Products may contribute to both Option 1 and Option 2.
- Note that if a single EPD covers multiple formulations or product types but reports only combined impact results, that EPD can only count as 1 product.
- Products with EPDs that meet more than one criterion are weighted at the highest valuation factor (not a combined factor).
- For Type III EPDs to be valued at 1.5 products, both the EPD and the LCA must be externally verified. External verification requires the person conducting the third-party verification of the underlying LCA data to be independent and outside of the organization (as per ISO 14025 and EN 15804 or ISO 21930) in which the EPD is developed.
- Third-party LCA/EPD verification must be done in compliance with or certified to ISO 17065 per the LEED V4 Reference Guide and v4.1 supplemental Beta Reference Guide.
- For EPDs published after July 1, 2021, a cover sheet or summary table should be included with all required info above clearly shown.
- Products considered for this credit include permanently installed building products and exclude mechanical, plumbing, electrical, (MEP) and specialty equipment and items purchased for temporary use on the project.
  - For BD+C, furniture is not considered permanently installed and is not required to be included in the credit. However, furniture as well as other optional MEP products may be included, provided they are also included in the overall material cost in the Sourcing of Raw Materials credit.
  - For ID+C, furniture is part of the required scope.

Submittal Tips

- Unless the documentation describes different functional/declared units or includes different impacts from different product lines, the LCA analysis is conducted for that functional unit and cannot be considered as more than one product.
- Because EPDs vary, verify that all EPDs included are a cradle-to-gate scope (at least A1-A3) and highlight this information in the documentation.
- Industry-wide (generic) EPDs are based on information provided by participating manufacturers. The manufacturer's name must be specifically stated on the EPD, recognizing them as a participant, by the program operator.

- Be sure that the product EPDs comply with the relevant referenced standards and that the relevant information in them has been highlighted. The EPD must comply with ISO 14025; the PCR must comply with EN 15804 or ISO 21930. Either the full EPD or an EPD summary and a link to the full Environmental Product Declaration (EPD) must be provided. If the link is separate from the summary, be sure to cross check that the same product is referenced on both.
- Note that LEED Interpretation 10425 states that a single industry-wide (generic) EPD can be used for up to 10 products listed within the industry-wide EPD, provided that each application has separately reported impacts within the EPD.
  - For example, a project can purchase the same type of product covered in an industry-wide EPD from multiple manufacturers. Or, if the industry-wide EPD includes LCA data for multiple product types (i.e. different functional units or LCA impacts based on thickness, gauge, or different product lines), then each product type can be counted as a single product.
- The global region indicated on the EPD must be relevant to the product installed in the project or the project team must include a narrative that the product was imported.
- Note that the credit references ISO standard 14071 for conducting critical review of the LCA. ISO 14071 is a set of guidelines, and as such is not typically included in the product documentation. This is suitable for documenting the credit so long as the EPD and/or LCA was conducted following all appropriate ISO standards mentioned in the LEED credit.