

Material Ingredients: Option 1, Material Ingredient Reporting

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 Material Ingredients](#)

[ID+C v4.1 Material Ingredients](#)

Option 1

BD+C: Use at least 20 different permanently installed products from at least 5 different manufacturers that use any of the following programs to demonstrate chemical inventory to at least 0.1% (1000 ppm)*

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

ID+C: Use at least 10 different permanently installed products from at least 3 different manufacturers that use any of the following programs to demonstrate chemical inventory to at least 0.1% (1000 ppm)

Exemplary Performance

BD+C: Use at least 40 qualifying permanently installed building products from 10 different manufacturers that meet the credit criteria*

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

ID+C: Use at least 20 different permanently installed products from at least 5 different manufacturers that use any of the following programs to demonstrate chemical inventory to at least 0.1% (1000 ppm)

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.

ASSESSMENT	REQUIREMENTS	VALUATION
Required for all	<ul style="list-style-type: none"> Inventory assessment completed to 0.1% (1000ppm) or more Validity period displayed on the document Unique Document with Document ID Product type or description. Names, product lines, or SKUs of products covered by the report. 	N/A
Cradle to Cradle	Material Health Certificate under v3 or later at the Bronze level or higher OR Cradle to Cradle Certified under v3 or later with a Material Health category achievement at the Bronze level or higher	1.5 products
ANSI/BIFMA e3 Furniture Sustainability Standard	<ul style="list-style-type: none"> 3 points under: 7.5.1.3 Advanced Level in e3-2014 OR 7.4.1.3 Advanced Level in e3-2012 Include the e3 scorecard for GBCI review 	1 product
Declare	Red List Free (aka LBC Red List Free) OR Declared OR LBC Compliant (aka LBC Red List Approved) that demonstrates content inventory to 0.1% (1000 ppm)	1 product
	Third party verification of the Declare label	1.5 products
Living Product Challenge	Includes a Red List Free Declare label OR LBC Compliant Declare label that demonstrates content inventory to 0.1% (1000 ppm)	1.5 products
Health Product Declaration	<ul style="list-style-type: none"> Published and complete Health Product Declaration to 1000 ppm Full disclosure of known hazards in compliance with the Health Product Declaration Open Standard Document is published within the HPD Repository 	1 product
	Third party verification of the HPD	1.5 products

Facts – NSF/ANSI 336	Sustainability Assessment for Commercial Furnishings Fabric: Certified at any level	1 product
Global Green TAG PHD labels	Issued after January 1, 2020	1 product
Product Lens	Certified	1 product
Manufacturer Inventory	<ul style="list-style-type: none"> • All ingredients identified by name (Exception: those ingredients defined as trade secret or intellectual property) • All ingredients identified by Chemical Abstract Service Registration Number (CASRN) OR Ingredients identified by European Community Number (EC Number) (Exception: those ingredients defined as trade secret or intellectual property) • Materials defined as trade secret or intellectual property must disclose ingredient/chemical role and amount. • Materials defined as trade secret or intellectual property must disclose hazard score/class using either: Greenscreen List Translator (LT) score and/or Full GreenScreen Benchmark (BM) OR Globally Harmonized System of Classification and Labeling of Chemicals rev.6 (2015) (GHS) 	1 product
	Third party verification of the Manufacturer Inventory which includes verification of content inventory	1.5 products

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.

- REACH pathway for projects located outside the USA:
 - Acceptable REACH documentation would be manufacturer signed letter on letterhead stating that the manufacturer has researched the supply chain and confirms that the end use products and materials have been fully inventoried for chemical ingredients. The letter further states that each substance has been assessed against the Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list, (the version in effect in June 2013 or newer).
 - Note that LEED projects registered after the April 14, 2017 Addenda must document that chemical ingredients have been inventoried to 100 ppm.
- Credit requirements for v4.1 are aligned with the latest version of the Cradle to Cradle standard v3 and v3.1. C2C v2.1.1 is no longer applicable.
- Qualifying HPDs developed under the Open Standard version 2.0, 2.1, 2.2 or subsequent versions of the standard are eligible for documenting credit achievement if the HPD is still valid at the time that the product

is purchased and used on a project. Version 1.0 HPDs are currently expired in the marketplace and will not contribute to this LEED v4.1 credit unless compliant products were purchased during the time the HPD was valid.

- Compliant manufacturer inventories must follow the most recent version of the HPDC Open Standard for reporting, ingredient categorization, disclosure thresholds, displaying content ranges, hazards, and other special conditions.
- All product reports must be valid at the time the product was purchased for the project.

Submittal Tips

- Unless the documentation describes different functional/declared units or includes different impacts from different product lines, the HPD analysis is conducted for that functional unit and cannot be considered as more than 1 product.
- Note materials defined as trade secret or intellectual property in a manufacturer's inventory may withhold the name and/or Chemical Abstract Service Registry Number (CASRN) but must disclose the role, amount, and GreenScreen benchmark, as defined in GreenScreen v1.2, or globally harmonized system for the classification of chemicals. GreenScreen doesn't screen products, it screens chemical ingredients. So, along with a GreenScreen assessment, the bill of materials for the product down to 1,000 parts per million must be provided for Option 1 of this credit. Hazard levels and hazard endpoints that result in scoring the ingredient as Benchmark 1 using full Green Screen must be reported. It is not necessary to report hazards associated with higher Benchmark levels or LT-UNK (Unknown) using GS List Translator.
- Note Material Safety Data Sheets (MSDS) are usually not compliant, because the manufacturers are not required to go beyond 99% of the ingredients. Often, a much lower percentage of the ingredients are listed. Therefore, MSDS are not acceptable documentation for this credit.
- Be sure the components are broken down to their ingredient level. For instance, for carpet or fabrics, expect to see the dyes broken out from the material, cotton, nylon 6, etc. Nylon 6 will have its own chemical components.
- Visit the HPD website for more information for how HPDs meet the LEED requirements and find graphic presentations for various HPD versions: <https://www.hpd-collaborative.org/leed-v4-credit-achievement/>
- Remember the Declare labels must indicate that all ingredients have been evaluated and disclosed down to 1,000 ppm. Declare labels are designated as Red List Free, LBC Red List Free, or Declared. A declare label designated as LBC Red List Approved or LBC Compliant must include information that demonstrates content inventory to 0.1% (1,000 ppm).
- The Declare product directory has a filter for LEED v4.1 compliance: <https://declare.living-future.org/>