



LEED BD+C: New Construction | v4 - LEED v4

# Material ingredients product manufacturer supply chain optimization

Possible 1 point

Language

Guide

Resources

Interpretations

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## Intent

This pilot process is different from other pilot credits. Manufacturers have the opportunity and are encouraged to engage in a field trial of the requirements without working with an active project team. Developed by the Supply Chain Optimization Working Group, the new option implementation process focuses on rewarding manufacturer achievements related to programs that drive the environmental, health and safety management of hazardous ingredients within the supply chain through improved communication and designed to spur innovation. These systemic opportunities are uniquely available to manufacturers and can have substantial co-benefits and synergies across broad segments of manufacturing.

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

### Product Manufacturer Supply Chain Optimization (1 point)

**Project Team:** Use building products that are sourced from product manufacturers who procure raw materials from suppliers meeting criteria below for at least 25%, by cost, of the total value of permanently installed products in the project.

**Manufacturers:** Engage in validated and robust safety, health, hazard, and risk programs. Document at least 99% by weight of the ingredients used to make the building product or building material are sourced from companies with independent third party verification of the following along the manufacturer supply chain:

Processes are in place to communicate and transparently prioritize chemical ingredients along the supply chain according

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to available hazard, exposure and use information to identify those that require more detailed evaluation

Processes are in place to identify, document, and communicate information on health, safety and environmental characteristics of chemical ingredients

Processes are in place to implement measures to manage the health, safety and environmental hazard and risk of chemical ingredients

Processes are in place to optimize health, safety and environmental impacts when designing and improving chemical ingredients

Processes are in place to communicate, receive and evaluate chemical ingredient safety and stewardship information along the supply chain

Safety and stewardship information about the chemical ingredients is publicly available from all points along the supply chain

For credit achievement calculation, products sourced (extracted, manufactured, and purchased) within 100 miles (160 km) of the project site are valued at 200% of their base contributing cost. For credit achievement calculation, the base contributing cost of individual products compliant with multiple responsible extraction criteria is not permitted to exceed 100% its total actual cost (before regional multipliers) and double counting of single product components compliant with multiple responsible extraction criteria is not permitted and in no case is a product permitted to contribute more than 200% of its total actual cost.

Structure and enclosure materials may not constitute more than 30% of the value of compliant building products.

## General Documentation Requirements

MANUFACTURER REGISTRATION

AUDITOR REGISTRATION

- Complete the feedback survey:

CREDIT SURVEY

## Credit Specific Process

Developed by the Supply Chain Optimization Working Group, this field test applies to option 3 of the LEED Materials and Resources credit for Material Ingredients. As part of this pilot, building product manufacturers will follow step-by-step guidance for meeting the requirements.

While there are several existing ways project teams can achieve this credit, the options currently available focus on finished products. The new option 3 field test and guidance focus on rewarding manufacturer achievements related to communication and innovation within the supply chain. These systemic opportunities are uniquely available to manufacturers and can have substantial co-benefits and synergies across broad segments of manufacturing.

### [Read the guidance](#)

Over the first half of 2016, USGBC staff will work closely with field trial participants to understand if the [LEED v4 MR credit Building Disclosure and Optimization - Material Ingredients Option 3 Implementation Guidance](#) is clear, usable, easily understood, and most importantly, transformational to their business. The

field test includes two phases.

The first phase is a desktop evaluation used to test whether the guidance document, as written, can be easily understood and provides enough information for the Building Product Manufacturers (BPM), auditors and project teams to easily use it as a tool.

The second phase of the pilot is a field evaluation used to test whether appropriate results can be achieved when products are run through the process. Field evaluations will be conducted for both the Section 2 supply chain optimization process, and the enhanced achievement options in Section 3.

Once manufacturer participants have successfully completed the field trial, they will be able to market their product to project teams pursuing this pilot credit.

To participate, manufacturers [register here](#), auditors [register here](#).

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