

fade[®]

LEED credits

Issued 2019/4

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MATERIALS AND RESOURCES (MR)

Building product disclosure and optimization - material ingredients

2 points

a. Option 1 - Material Ingredient Reporting (1 point)

Requirements:

- Use permanently installed products from manufacturers that use any of the following programs to demonstrate the chemical inventory of the product to at least 0.1% (1000 ppm).

fade® complies with the following requirements:

- Cradle to Cradle Certification.
- fade® Acoustic Plaster has been certified at the Cradle to Cradle v2 Silver level.

b. Option 2 - Material Ingredient Optimization (1 point)

Requirements:

- Use products that document their material ingredient optimization using the paths below for at least 25%, by cost, of the total value of permanently installed products in the project.

fade® complies with the following requirements:

- Cradle to Cradle Certified.
- fade® Acoustic Plaster has been certified at the Cradle to Cradle v2 Silver level.

Our products will be valued as follows:

Cradle to Cradle v3 Silver: 100% of cost

Building product disclosure and optimization - sourcing of raw materials

2 points

a. Option 1 - Raw material source and extraction reporting (1 point)

Requirements:

- Use installed products from manufacturers that have publicly released a report from their raw material suppliers which include raw material supplier extraction locations, a commitment to long-term ecologically responsible land use, a commitment to reducing environmental harms from extraction and/or manufacturing processes, and a commitment to meeting applicable standards or programs voluntarily that address responsible sourcing criteria.

fade® complies with the following requirements:

- fade® has self-declared using the UN Global Compact self-assessment tool

Note: fade® has self-declared reports and are therefore valued as one half (1/2) of a product for credit achievement.

b. Option 2 - leadership extraction practices (1 point)

Requirements:

- Use products that meet at least one of the responsible extraction criteria below for at least 25%, by cost, of the total value of permanently installed building products in the project.

fade® complies with the following requirements:

- Materials reuse. The fade® Acoustic Plaster System can be re-coated and reused indefinitely when refurbishing making the system very long lasting
- Recycled content. The fade® System consists of at least 60% post-consumer recycled content.

Building product disclosure and optimization - environmental product declarations

1 point

a. Option 1 - Environmental product declaration (EPD) (1 point)

Requirements:

- Use at least 20 different permanently installed products sourced from at least five different manufacturers that meet one of the disclosure criteria below.

fade® complies with the following requirements:

- Environmental product declarations which conform to ISO 14025 and EN 15804 or ISO 21930 and have at least a cradle to gate scope.

Building life-cycle impact reduction

2-4 points

a. Option 3 - Building and Material Reuse (2 points)

Requirements:

- Reuse or salvage building materials from off site or on site as a percentage of the surface area, as listed in Table 1. Include structural elements (e.g., floors, roof decking), enclosure materials (e.g., skin, framing), and permanently installed interior elements (e.g., walls, doors, floor coverings, ceiling systems)

fade® complies with the following requirements:

- fade® Acoustic Plaster system can be installed directly to an existing and/or permanently installed wall and/or ceiling system.

Tests to support the durability and indestructibility of our products:

- o Resistance to humidity – (DS/EN ISO 6270-2, 2005 Paint and varnishes)*
- o Mold resistant – (ASTM D3273)*
- o Anti-static (Danish Technological Institute)*
- o UV-exposure resistant (ASTM G 154-16 / ISO 18314-1, 2015)*

Indoor Environmental Quality (EQ)

Low-emitting materials

3 points

a. Option 1 - Product Category Calculations (3 points)

- Low emitting materials - Interior paints and coatings applied on site
fade® Acoustic Plaster System – (0.014 mg/m²h) 0,02 g/L as per the M1 Protocol for
Chemical and Sensory Testing of Building Materials as published by Rakennustietosäätiö RTS
(version 22.1.2015)

Daylight

3 points

a. Daylight and Views

- High light reflectance benefits projects maximizing access to daylight using
option 1 (Spatial Daylight Autonomy), option 2 (Illuminance Calculations) or
option 3 (Measurement) fade® Acoustic Plaster System – 83,0% as per ISO 18314-1, 2015

Acoustic performance

3 points

a. Reverberation time

- Sound absorption as per ISO 354, EN 20354 & EN ISO 11654 & Sound absorption as per
BS EN ISO 354, 2003

- o 20mm directly installed – NRC 0.7
- o 25mm directly installed – NRC 0.85
- o 40mm directly installed – NRC 1.0

Pilot Credits

Building Material Human Hazard & Exposure Assessment

1 point

a. Hazard Assessment

- fade® Acoustic Ceilings has had their fade® Acoustic Plaster assessed against the criteria of the Material Health category in the Cradle to Cradle Certified™ Product Standard and was awarded a Silver level Material Health Certificate by the Cradle to Cradle Products Innovation Institute.

Certified Multi-attribute Products and Materials

1 point

a. Third party certification

- fade® Acoustic Plaster is Cradle to Cradle Certified Silver.

Integrative Analysis of Building Materials

1 point

a. Documented qualitative analysis of the potential health, safety and environmental impacts of the product in five stages of the product's life cycle (product assembly/manufacturing, building product installation, product use product maintenance, end of product life/reuse)

- fade® Acoustic Plaster is Cradle to Cradle Certified Silver.

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