

- [Credits](#)
- [Material & resources](#)
 - [Awareness & education](#)
 - [Energy & atmosphere](#)
 - [Indoor environmental quality](#)
 - [Innovation & design process](#)
 - [Location & linkages](#)
 - [Material & resources](#)
 - [Sustainable sites](#)
 - [Water efficiency](#)
- [MR108 | Building life-cycle impact reduction](#)
 - [MMRc1 | Material-efficient framing](#)
 - [MMRc2 | Environmentally preferable products](#)
 - [MMRc3 | Waste management](#)
 - [MR1 | Sustainable purchasing](#)
 - [MR101 | Storage and collection of recyclables](#)
 - [MR101 | Storage and collection of recyclables](#)
 - [MR102 | Storage and collection of recyclables](#)
 - [MR102 | Storage and collection of recyclables](#)
 - [MR103 | Construction and demolition waste management planning](#)
 - [MR103 | Construction and demolition waste management planning](#)
 - [MR104 | PBT source reduction - mercury](#)
 - [MR105 | Ongoing purchasing and waste policy](#)
 - [MR105 | Ongoing purchasing and waste policy](#)
 - [MR106 | Facility maintenance and renovation policy](#)
 - [MR107 | Long-term commitment](#)
 - [MR108 | Building life-cycle impact reduction](#)
 - [MR108 | Building life-cycle impact reduction](#)
 - [MR108 | Building life-cycle impact reduction](#)
 - [MR109 | Interiors life-cycle impact reduction](#)
 - [MR109 | Interiors life-cycle impact reduction](#)
 - [MR110 | Solid waste management - ongoing](#)
 - [MR110 | Solid waste management - ongoing](#)
 - [MR111 | Solid waste management - facility maintenance and renovation](#)
 - [MR112 | Building product disclosure and optimization - environmental product declarations](#)
 - [MR112 | Building product disclosure and optimization - environmental product declarations](#)
 - [MR114 | Building product disclosure and optimization - sourcing of raw materials](#)
 - [MR114 | Building product disclosure and optimization - sourcing of raw materials](#)
 - [MR115 | Building product disclosure and optimization - material ingredients](#)
 - [MR115 | Building product disclosure and optimization - material ingredients](#)
 - [MR116 | Purchasing - lamps](#)
 - [MR118 | PBT source reduction - lead, cadmium and copper](#)
 - [MR119 | Furniture and medical furnishings](#)
 - [MR120 | Design for flexibility](#)
 - [MR121 | Purchasing - ongoing](#)
 - [MR121 | Purchasing - ongoing](#)
 - [MR122 | Purchasing - facility maintenance and renovation](#)
 - [MR123 | Construction and demolition waste management](#)
 - [MR123 | Construction and demolition waste management](#)
 - [MR123 | Construction and demolition waste management](#)
 - [MR2 | Construction, demolition and renovation waste management](#)
 - [MR2.1 | Solid waste management](#)
 - [MR3 | Resource reuse](#)
 - [MR4.1 | Assessment and optimization - life cycle assessment](#)
 - [MR4.2 | Assessment and optimization - life cycle impact disclosure](#)
 - [MR4.3 | Assessment and optimization - prescriptive attributes](#)
 - [MR4.4 | Responsible extraction of raw materials](#)
 - [MR4.5 | Avoidance of chemicals of concern in building materials](#)
 - [MR5 | Tenant space, long-term commitment](#)
 - [MR904 | PBT source reduction - mercury](#)
 - [MRc1 | Sustainable purchasing - ongoing consumables](#)
 - [MRc1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1 | Material-efficient framing](#)
 - [MRc1 | Durability management verification](#)
 - [MRc1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1.1 | Tenant space - long-term commitment](#)
 - [MRc1.1 | Building reuse - maintain 75% of existing walls, floors & roof](#)
 - [MRc1.1 | Tenant space - long-term commitment](#)
 - [MRc1.1 | Construction, demolition and renovation waste management](#)
 - [MRc1.1 | Building reuse - maintain 75% of existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain 25% of existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain 75% of existing walls, floors and roof](#)
 - [MRc1.1 | Building reuse - maintain 75% of existing walls, floors and roof](#)
 - [MRc1.1 | Sustainable purchasing - ongoing consumables](#)
 - [MRc1.1 | Building reuse: maintain 75% of existing walls, floors & roof](#)
 - [MRc1.1 | Tenant space, long-term commitment](#)
 - [MRc1.1 | Building reuse - maintain existing walls, floors and roof](#)
 - [MRc1.2 | Building reuse - maintain interior nonstructural elements](#)
 - [MRc1.2 | Building reuse - maintain interior nonstructural elements](#)
 - [MRc1.2 | Building reuse - maintain interior nonstructural elements](#)
 - [MRc1.2 | Building reuse - maintain 95% of existing walls, floors & roof](#)
 - [MRc1.2 | Building reuse - maintain 40% of interior non-structural components](#)
 - [MRc1.2 | Building reuse - maintain 95% of existing walls, floors and roof](#)
 - [MRc1.2 | Building reuse - maintain 50% of existing walls, floors and roof](#)
 - [MRc1.2 | Building reuse - maintain 100% of existing walls, floors and roof](#)
 - [MRc1.2 | Building reuse - maintain 100% of existing walls, floors and roof](#)

- [MRc1.2 | Construction, demolition and renovation waste management](#)
- [MRc1.2 | Sustainable purchasing - ongoing consumables](#)
- [MRc1.2 | Building reuse - maintain 95% of existing walls, floors & roof](#)
- [MRc1.2 | Building reuse, maintain 40% of interior non-structural components](#)
- [MRc1.2 | Building reuse - maintain interior nonstructural elements](#)
- [MRc1.3 | Building reuse - maintain 50% of interior non-structural elements](#)
- [MRc1.3 | Sustainable purchasing - ongoing consumables](#)
- [MRc1.3 | Building reuse - maintain 60% of interior non-structural components](#)
- [MRc1.3 | Building reuse - maintain 50% of interior non-structural elements](#)
- [MRc1.3 | Building reuse - maintain 75% of existing walls, floors and roof](#)
- [MRc1.3 | Building reuse - maintain 100% of shell/structure and 50% of non-shell/non-structure](#)
- [MRc1.3 | Building reuse - maintain 100% of shell/structure and 50% of non-shell/non-structure](#)
- [MRc1.3 | Building reuse: maintain 50% of interior nonstructural elements](#)
- [MRc1.3 | Building Reuse, Maintain 60% of Interior Non-Structural Components](#)
- [MRc2 | Construction waste management](#)
- [MRc2 | Environmentally preferable products](#)
- [MRc2 | Construction waste management - divert from disposal](#)
- [MRc2 | Environmentally preferable products](#)
- [MRc2 | Environmentally preferable products](#)
- [MRc2 | Construction waste management](#)
- [MRc2.1 | Sustainable purchasing - electric-powered equipment](#)
- [MRc2.1 | Construction waste management - divert 50% from disposal](#)
- [MRc2.1 | Construction waste management - divert 50% from landfill](#)
- [MRc2.1 | Optimize use of alternative materials](#)
- [MRc2.1 | Construction waste management - divert 50% from disposal](#)
- [MRc2.1 | Construction waste management - divert 50% from landfill](#)
- [MRc2.1 | Sustainable purchasing - durable goods](#)
- [MRc2.1 | Construction waste management: divert 50% from disposal](#)
- [MRc2.1-2.2 | Construction waste management](#)
- [MRc2.2 | Construction waste management - divert 75% from disposal](#)
- [MRc2.2 | Sustainable purchasing - durable goods](#)
- [MRc2.2 | Construction waste management - divert 75% from landfill](#)
- [MRc2.2 | Construction waste management - divert 75% from disposal](#)
- [MRc2.2 | Construction waste management - divert 75% from landfill](#)
- [MRc2.2 | Sustainable purchasing - furniture](#)
- [MRc2.2 | Optimize use of alternative materials](#)
- [MRc2.2 | Construction waste management: divert 75% from disposal](#)
- [MRc2.2 | Construction waste management, divert 75% from landfill](#)
- [MRc2.3 | Optimize use of alternative materials](#)
- [MRc2.4 | Optimize use of alternative materials](#)
- [MRc2.5 | Optimize use of alternative materials](#)
- [MRc3 | Materials reuse](#)
- [MRc3 | Materials reuse](#)
- [MRc3 | Materials reuse](#)
- [MRc3 | Sustainable purchasing - facility alterations and additions](#)
- [MRc3 | Sustainably sourced materials and products](#)
- [MRc3 | Waste management](#)
- [MRc3 | Sustainable purchasing - facility alterations and additions](#)
- [MRc3 | Materials reuse](#)
- [MRc3 | Materials reuse - 1%](#)
- [MRc3 | Construction waste management](#)
- [MRc3 | Construction waste management](#)
- [MRc3 | Materials reuse](#)
- [MRc3 | Materials reuse](#)
- [MRc3.1 | Materials reuse](#)
- [MRc3.1 | Materials reuse - 5%](#)
- [MRc3.1 | Resource reuse - 5%](#)
- [MRc3.1 | Optimize use of IAQ compliant products](#)
- [MRc3.1 | Resource reuse - 5%](#)
- [MRc3.1 | Materials reuse](#)
- [MRc3.1 | Materials reuse: 5%](#)
- [MRc3.1 | Resource reuse, 5%](#)
- [MRc3.1-3.2 | Resource reuse](#)
- [MRc3.2 | Materials reuse - furniture and furnishings](#)
- [MRc3.2 | Materials reuse - 10%](#)
- [MRc3.2 | Resource reuse - 10%](#)
- [MRc3.2 | Resource reuse - 10%](#)
- [MRc3.2 | Optimize use of IAQ compliant products](#)
- [MRc3.2 | Materials reuse: 10%](#)
- [MRc3.2 | Resource reuse, 10%](#)
- [MRc3.3 | Resource reuse - 30% furniture and furnishings](#)
- [MRc3.3 | Resource Reuse, 30% Furniture and Furnishings](#)
- [MRc4 | Recycled content](#)
- [MRc4 | Recycled content](#)
- [MRc4 | Recycled content](#)
- [MRc4 | Recycled content](#)
- [MRc4 | Sustainable purchasing - reduced mercury in lamps](#)
- [MRc4 | Recycled content \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4 | Material-efficient framing](#)
- [MRc4 | Recycled content](#)
- [MRc4 | Recycled content](#)
- [MRc4.1 | PBT source reduction - mercury in lamps](#)
- [MRc4.1 | Recycled content - 10% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.1 | Sustainable purchasing - reduced mercury in lamps](#)
- [MRc4.1 | Recycled content - 10% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.1 | Sustainable cleaning products and materials](#)
- [MRc4.1 | Recycled content - 10% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.1 | Recycled content - 5% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.1 | Recycled content: 10% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.1 | Recycled content, 10% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.1-4.2 | Recycled content](#)
- [MRc4.2 | PBT source reduction - lead, cadmium and copper](#)
- [MRc4.2 | Recycled content - 20% \(post-consumer + 1/2 pre-consumer\)](#)
- [MRc4.2 | Recycled content - 20% \(post-consumer + 1/2 pre-consumer\)](#)

- o [MRp2 | PBT source reduction - mercury](#)
- o [MRp2 | Solid waste management policy](#)
- o [MRp2 | Toxic material source reduction - reduced mercury in light bulbs](#)
- o [MRp2 | Durability management](#)
- o [MRp2.1 | Solid waste management policy](#)
- o [MRp2.2 | Storage and collection of recyclables](#)
- o [MRp2.3 | Facility alterations and additions policy](#)



Our "watch" feature allows you to stay current on all aspects of this specific credit. In your account, you can control what you get updated on and how you receive your notifications. [Hide](#)

| v4 - LEED v4

Building life-cycle impact reduction

Possible 6 points

1 result in All .

- [Glossary](#)

Intent

To encourage adaptive [reuse](#) and optimize the environmental performance of products and materials.

Requirements

Demonstrate reduced environmental effects during initial project decision-making by reusing existing building resources or demonstrating a reduction in materials use through [life-cycle assessment](#). Achieve one of the following options.

Option 1. [historic building reuse](#) (6 points)

Maintain the existing building [structure](#), envelope, and interior nonstructural elements of a historic building or contributing building in a [historic district](#). To qualify, the building or historic district must be listed or eligible for listing in the local, state, or national register of historic places. Do not demolish any part of a historic building or contributing building in a historic district unless it is deemed structurally unsound or hazardous. For buildings listed locally, approval of any demolition must be granted by the local historic preservation review board. For buildings listed in a state register or the U.S. National Register of Historic Places (or local equivalent for projects outside the U.S.), approval must appear in a programmatic agreement with the state historic preservation office or National Park Service (or local equivalent for projects outside the U.S.).

Any alteration (preservation, restoration, or rehabilitation) of a historic building or a contributing building in a historic district on the project site must be done in accordance with local or national standards for rehabilitation, whichever are applicable. If building is not subject to historic review, include on the project team a preservation professional who meets U.S. federal qualifications for historic architects (or local equivalent for projects outside the U.S.); the preservation professional must confirm conformance to the Secretary of Interior's Standards for the Treatment of Historic Properties (or local equivalent for projects outside the U.S.).

OR

Option 2. [renovation of abandoned or blighted building](#) (6 points)

Maintain at least 50%, by surface area, of the existing building [structure](#), [enclosure](#), and interior structural elements for buildings that meet local criteria of abandoned or are considered blight. The building must be renovated to a state of productive occupancy. Up to 25% of the building surface area may be excluded from credit calculation because of deterioration or damage.

OR

Option 3. [building and material reuse](#) (2-5 points)

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). Exclude from the calculation window assemblies and any hazardous materials that are remediated as a part of the project.

Materials contributing toward this credit may not contribute toward MR Credit Material Disclosure and Optimization.

Table 1. Points for reuse of building materials

Percentage of completed project surface area reused	Points BD&C	Points BD&C (Core and Shell)
25%	2	2
50%	3	3
75%	4	5

OR

Option 4. [whole-building life-cycle assessment](#) (3 points)

For new construction (buildings or portions of buildings), conduct a life-cycle assessment of the project's [structure](#) and [enclosure](#) that demonstrates a minimum of 10% reduction, compared with a baseline building, in at least three of the six impact categories listed below, one of which must be global warming potential. No impact category assessed as part of the life-cycle assessment may increase by more than 5% compared with the baseline building.

The baseline and proposed buildings must be of comparable size, function, orientation, and operating energy performance as defined in EA Prerequisite Minimum Energy Performance. The [service life](#) of the baseline and proposed buildings must be the same and at least 60 years to fully account for maintenance and replacement. Use the same life-cycle assessment software tools and data sets to evaluate both the baseline building and the proposed building, and report all listed impact categories. Data sets must be compliant with ISO 14044.

Select at least three of the following impact categories for reduction:

- global warming potential (greenhouse gases), in CO₂e;
- depletion of the stratospheric ozone layer, in kg CFC-11;
- acidification of land and water sources, in moles H⁺ or kg SO₂;
- eutrophication, in kg nitrogen or kg phosphate;
- formation of tropospheric ozone, in kg NO_x, kg O₃ eq, or kg ethene; and
- depletion of nonrenewable energy resources, in MJ.

0 comments [Leave a comment](#)

Leave a comment Don't have an account? [Create one](#)

You must be signed in to leave a comment.

Email

Password

SIGN IN