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- 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 | Construction waste management - divert from disposal
- MRc2 | Environmentally preferable products
- MRc2 | Environmentally preferable products
- MRc2 | Construction waste management
- MRc2 | Environmentally preferable products
- 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 | Sustainable purchasing - facility alterations and additions
- MRc3 | Materials reuse
- MRc3 | Materials reuse - 1%
- MRc3 | Sustainably sourced materials and products
- MRc3 | Materials reuse
- MRc3 | Materials reuse
- MRc3 | Waste management
- MRc3 | Construction waste management
- MRc3 | Construction waste management
- 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)
- MRc4.2 | Recycled content - 20% (post-consumer + 1/2 pre-consumer)
- MRc4.2 | Recycled content - 10% (post-consumer + 1/2 pre-consumer)
- MRc4.2 | Sustainable cleaning products and materials
- MRc4.2 | Sustainable purchasing - reduced mercury in lamps
- MRc4.2 | Recycled content: 20% (post-consumer + 1/2 pre-consumer)
- MRc4.2 | Recycled content, 20% (post-consumer + 1/2 pre-consumer)
- MRc4.3 | Sustainable cleaning products and materials
- MRc5 | Sustainable purchasing - food
- MRc5 | Furniture and medical furnishings
- MRc5 | Sustainable purchasing - food
- MRc5 | Regional materials - extracted, processed and manufactured regionally
- MRc5 | Regional materials
- MRc5 | Regional materials
- MRc5 | Regional materials
- MRc5 | Regional materials
- MRc5 | Regional materials
- MRc5 | Regional materials
- MRc5.1 | Regional materials - 10% extracted, processed and manufactured regionally
- MRc5.1 | Regional materials - 20% manufactured regionally
- MRc5.1 | Occupant recycling
- MRc5.1 | Regional materials - 10% extracted, processed and manufactured regionally
- MRc5.1 | Regional materials - 20% manufactured regionally
- MRc5.1 | Local/regional materials - 20% manufactured regionally
- MRc5.1 | Regional materials: 10% extracted, processed & manufactured regionally
- MRc5.1 | Regional materials, 20% manufactured regionally
- MRc5.2 | Regional materials - 20% extracted, processed and manufactured regionally
- MRc5.2 | Regional materials - 10% extracted and manufactured regionally
- MRc5.2 | Regional materials - 20% extracted, processed and manufactured regionally
- MRc5.2 | Regional materials - 50% extracted regionally
- MRc5.2 | Local/regional materials - 50% extracted regionally
- MRc5.2 | Occupant recycling
- MRc5.2 | Regional materials: 20% extracted, processed & manufactured regionally
- MRc5.2 | Regional materials, 10% extracted and manufactured regionally
- MRc5.3 | Occupant recycling
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Solid waste management - waste stream audit
- MRc6 | Certified wood
- MRc6 | Resource use - design for flexibility
- MRc6 | Rapidly renewable materials
- MRc6 | Solid waste management - waste stream audit
- MRc6 | Rapidly renewable materials
- MRc6 | Additional toxic material reduction - reduced mercury in light bulbs
- MRc6 | Rapidly renewable materials
- MRc6 | Certified wood
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Rapidly renewable materials
- MRc6 | Certified wood
- MRc7 | Solid waste management - ongoing consumables
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified wood
- MRc7 | Certified Wood
- MRc7 | Certified wood
- MRc7.1 | Solid waste management - ongoing consumables
- MRc7.2 | Solid waste management - ongoing consumables
- MRc8 | Solid waste management - durable goods
- MRc8 | Solid waste management - durable goods
- MRc9 | Solid waste management - facility alterations and additions
- MRc9 | Solid waste management - facility alterations and additions
- MRcX | PBT source reduction - mercury in lamps
- MRp1 | Sustainable purchasing policy
- MRp1 | Sustainable purchasing policy
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Sustainable purchasing policy
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Storage & collection of recyclables
- MRp1 | Storage and collection of recyclables
- MRp1 | Certified tropical wood
- MRp1 | Storage and collection of recyclables

- MRp1.1 | Source reduction and waste management - waste management policy and waste stream audit
- MRp1.2 | Source reduction and waste management - storage and collection of recyclables
- MRp2 | Construction, demolition and waste management planning
- MRp2 | Solid waste management policy
- MRp2 | PBT source reduction - mercury
- MRp2 | Solid waste management policy
- MRp2 | Toxic material source reduction - reduced mercury in light bulbs
- MRp2 | Durability management
- MRp2.1 | Solid waste management policy
- MRp2.2 | Storage and collection of recycables
- MRp2.3 | Facility alterations and additions policy

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| 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 CO_2e;
- depletion of the stratospheric ozone layer, in kg CFC-11;
- acidification of land and water sources, in moles H^+ or kg SO_2;

- eutrophication, in kg nitrogen or kg phosphate;
- formation of tropospheric ozone, in kg NOx, kg O3 eq, or kg ethene; and
- depletion of nonrenewable energy resources, in MJ.

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