- Credits
- Pilot credits
  - Awareness & education
  - Energy & atmosphere
  - Indoor environmental quality
  - Innovation & design process
  - Location & linkages
  - Material & resources
  - Sustainable sites
  - Water efficiency
- MRpc77 | Material ingredient optimization
  - EApc27 | Reconcile projected and actual energy performance
  - EApc27 | Reconcile projected and actual energy performance
  - EApc3 | Medical and process equipment efficiency
  - EApc3 | Medical and process equipment efficiency
  - EApc38 | Advanced utility tracking
  - EApc56 | Renewable energy - distributed generation
  - EApc56 | Renewable energy - distributed generation
  - EApc59 | Occupant engagement
  - EApc59 | Occupant engagement
  - EApc65 | Monitoring based commissioning
  - EApc66 | Community contaminant prevention - airborne releases
  - EApc66 | Community contaminant prevention - airborne releases
  - EApc67 | Pilot alternative compliance path - EAp2 Energy Jumpstart
  - EApc67 | Pilot alternative compliance path - EAp2 Energy Jumpstart
  - EApc71 | Performance of ENERGY STAR for Homes
  - EApc72 | Active solar-ready design
  - EApc73 | HVAC Start-up credentialing
  - EApc73 | HVAC Start-up credentialing
  - EApc8 | Demand response
  - EApc8 | Demand response
  - EApc86 | LEED 2009 EBOM ACPs for ISO 50001
  - EApc92 | EA Pilot ACP: Advanced Buildings™ New Construction Guide
  - EQpc21 | Low-emitting interiors
  - EQpc22 | Interior lighting - quality
  - EQpc22 | Interior lighting - quality
  - EQpc24 | Acoustics
  - EQpc44 | Ergonomics strategy
  - EQpc44 | Ergonomics strategy
  - EQpc44 | Ergonomics strategy
  - EQpc47 | Acoustic comfort
  - EQpc47 | Acoustic comfort
  - EQpc57 | Enhanced acoustical performance - exterior noise control
  - EQpc57 | Enhanced acoustical performance - exterior noise control
  - EQpc68 | Indoor air quality procedure - alternative compliance path
  - EQpc68 | Indoor air quality procedure - alternative compliance path
  - EQpc68 | Indoor air quality procedure - alternative compliance path
  - EQpc74 | No environmental tobacco smoke
  - EQpc78 | Design for active occupants
  - EQpc78 | Design for active occupants
  - EQpc78 | Design for active occupants
  - EQpc85 | Learning Controls for Thermal Comfort
  - EQpc85 | Learning Controls for Thermal Comfort
  - GIBpc10 | Sustainable wastewater management
  - IDpc28 | Trades training
  - IDpc60 | Integrative process
  - IDpc60 | Integrative process
  - IPpc81 | Green training for contractors, trades, operators and service workers
  - IPpc81 | Green training for contractors, trades, operators and service workers
  - IPpc81 | Green training for contractors, trades, operators and service workers
  - IPpc88 | LEED O+M Starter Kit
  - IPpc88 | LEED O+M Starter Kit
  - IPpc89 | Social equity within the community
  - IPpc89 | Social equity within the community
  - IPpc90 | Social equity within the project team
  - IPpc90 | Social equity within the project team
  - IPpc91 | Social equity within the supply chain
  - IPpc91 | Social equity within the supply chain
  - IPpc93 | Prevention through Design
  - IPpc93 | Prevention through Design
  - LLpc30 | Bicycle Network and Storage
  - LLpc9 | Street network
  - LTpc70 | Green vehicles
  - MRpc34 | Design for adaptability
  - MRpc34 | Design for adaptability
  - MRpc52 | Material multi-attribute assessment
  - MRpc52 | Material multi-attribute assessment
  - MRpc53 | Responsible sourcing of raw materials
  - MRpc53 | Responsible sourcing of raw materials
  - MRpc54 | Avoidance of chemicals of concern
  - MRpc54 | Avoidance of chemicals of concern
  - MRpc61 | Material disclosure and assessment
  - MRpc62 | Disclosure of chemicals of concern
  - MRpc63 | Whole building life cycle assessment
  - MRpc69 | Construction and demolition waste management
  - MRpc76 | Material ingredient reporting
  - MRpc76 | Material ingredient reporting

- MRpc77 | Material ingredient optimization
- MRpc77 | Material ingredient optimization
- MRpc79 | Material ingredients product manufacturer supply chain optimization
- MRpc79 | Material ingredients product manufacturer supply chain optimization
- MRpc79 | Material ingredients product manufacturer supply chain optimization
- MRpc80 | Environmentally preferable interior finishes and furnishings
- MRpc80 | Environmentally preferable interior finishes and furnishings
- MRpc84 | MR Credit Category Pilot ACP
- MRpc87 | Verified Construction & Demolition Recycling Rates
- MRpc87 | Verified Construction & Demolition Recycling Rates
- MRpc87 | Verified Construction & Demolition Recycling Rates
- SSpc14 | Walkable project site
- SSpc14 | Walkable project site
- SSpc16 | Rainwater management
- SSpc16 | Rainwater management
- SSpc45 | Site assessment
- SSpc55 | Bird collision deterrence
- SSpc55 | Bird collision deterrence
- SSpc55 | Bird collision deterrence
- SSpc64 | Site improvement plan
- SSpc7 | Light pollution reduction
- SSpc7 | Light pollution reduction
- SSpc75 | Clean construction
- SSpc75 | Clean construction
- SSpc75 | Clean construction
- SSpc82 | Local food production
- SSpc82 | Local food production
- SSpc82 | Local food production
- SSpc82 | Local food production
- SSpc83 | Site development - protect or restore habitat - alternative compliance path
- SSpc83 | Site development - protect or restore habitat - alternative compliance path
- SSpc83 | Site development - protect or restore habitat - alternative compliance path
- SSpc83 | Site development - protect or restore habitat - alternative compliance path
- WEpc10 | Sustainable wastewater management
- WEpc10 | Sustainable wastewater management
- WEpc17 | Cooling tower water use
- WEpc17 | Cooling tower water use
- WEpc18 | Appliance and process water use reduction
- WEpc18 | Appliance and process water use reduction
- WEpc18 | Appliance and process water use reduction
- WEpc32 | WaterSense for new homes
- WEpc32 | WaterSense for new homes
- WEpc94 | No Cooling Tower - alternative compliance path
- WEpc94 | No Cooling Tower - alternative compliance path
- WEpc94 | No Cooling Tower - alternative compliance path

LEED BD+C: Core and Shell | v3 - LEED 2009

Material ingredient optimization

MRpc77 | Possible 1 point

1 result in**All** .

- Glossary

Intent

This is a pilot credit. To use any pilot credit on your LEED project, be sure to register here. Documentation requirements and additional questions are listed below.

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

Material ingredient optimization

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.

- USGBC approved program. Products that comply with building product optimization criteria approved by USGBC.
- GreenScreen v1.2 Benchmark. Products that have fully inventoried chemical ingredients to 100 ppm that have no Benchmark 1 hazards:
  - If any ingredients are assessed with the GreenScreen List Translator, value these products at 100% of cost.
  - If all ingredients are have undergone a full GreenScreen Assessment, value these products at 150% of cost.
- Cradle to Cradle v2 Certified. End use products are certified Cradle to Cradle. Products will be valued as follows:
  - Cradle to Cradle Gold: 100% of cost
  - Cradle to Cradle Platinum: 150% of cost
- Cradle to Cradle v3 Certified. End use products are certified Cradle to Cradle. Products will be valued as follows:
  - Cradle to Cradle Silver: 100% of cost
  - Cradle to Cradle Gold or Platinum: 150% of cost
- International Alternative Compliance Path – REACH Optimization. End use products and materials that do not contain substances that meet REACH criteria for substances of very high concern. If the product contains no ingredients listed on the REACH Authorization[1] or Candidate[2] list, value at 100% of cost.
-

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 Pilot Documentation Requirements

Register for the pilot credit

- Participate in the LEEDuser pilot credit forum
- Complete the feedback survey:

Credits 1-14

Credits 15-27

Credits 28-42

Credits 43-56

Credits 57-67

Credits 68-82

Credits 83-103

Additional questions

1. Did your project use the actual or default materials cost to determine the total materials cost?
2. How did your team determine or estimate the actual materials cost? What method was used?
3. Where there any challenges in determining the total materials cost? What were they?
4. If applicable, how would using the actual materials cost verses the default materials cost have effected credit achievement?

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