

Quiz #9 - LEED Green Associate

GA02 – Pgs. 467-472

GA09 – Pgs. 86-106

GBLCC Section 4: Green Building Core Concepts and Application Strategies: Materials and Resources

1. Which of these framing approaches by design use less material than conventional framing without compromising performance? [Choose Two]
 - A. Structurally Integrated Panels (SIP)
 - B. Studs spaced at 16 instead of 12 inches on center
 - C. Studs spaced at 24 instead of 16 inches on center
 - D. Structural Insulated Panels (SIP)
2. What is the first step in a successful waste management policy?
 - A. Recycle all possible construction materials.
 - B. Reuse existing materials.
 - C. Reduce the total quantity of waste.
 - D. Specify recyclable materials.
 - E. Determine the embodied energy of the product.
3. A project generates 100 tons of waste throughout construction. 50 tons are collected on-site and sent to a sorting facility with a facility-wide diversion rate of 60%. 40 tons are separated on-site and sent directly to recyclers. The final 10 tons are incinerated off-site. What percentage of waste does LEED consider to have been recycled?
 - A. 40%
 - B. 50%
 - C. 70%
 - D. 80%
4. A building material that is made from recycled soda bottles contains_____?
 - A. Post-industrial recycled content
 - B. Post-consumer recycled content
 - C. Pre-consumer recycled content
 - D. Pre-fabricated recycled content
5. LEED defines regional materials as originating within_____?
 - A. 100 miles of the project site
 - B. 250 miles of the project site
 - C. 500 miles of the project site
 - D. 750 miles of the project site
6. Ongoing consumables are consumed during which of the following?
 - A. Design only
 - B. Construction only
 - C. Occupancy only
 - D. Both construction and operation
 - E. Construction and at the building's end of life
7. Which environmentally preferable attributes of materials does LEED recognize [Choose Three]?
 - A. Are harvested and manufactured regionally
 - B. Contain recycled content
 - C. Are sourced from developing countries
 - D. Are salvaged
 - E. Offer future customization options

8. Which of these is considered a pre-consumer recycled content material?
- A. Cardboard boxes
 - B. Soda cans
 - C. Milk jugs
 - D. Wood chips from a mill
9. What attribute should recycled materials have in order to take advantage of synergies with regional materials?
- A. Low VOCs
 - B. Remanufactured regionally
 - C. More durability
 - D. Lower life-cycle costs
10. At a minimum, what materials must a recycling program include? [Choose three]
- A. Metals
 - B. Food waste
 - C. Glass
 - D. Paper
 - E. Light Bulbs
11. MR Credit BPD&O – Sourcing of Raw Materials what is the referenced standard for wood products?
- A. Green-e
 - B. International Organization of Standards document, ISO 14021
 - C. Forest Stewardship Council
 - D. Sustainable Forestry Council
12. For MR Credit Building Life-Cycle Impact Reduction what is excluded from the calculation for building and material reuse? [Choose Two]
- A. Structural Flooring
 - B. Hazardous material
 - C. Window Assemblies
 - D. Non-structural roofing material
13. One of the best approaches for reducing the amount of new material needed for a project is to?
- A. Locate the project in an urban area
 - B. Reuse existing previously-occupied buildings
 - C. Purchase products made from rapidly renewable sources
 - D. Use materials containing recycled content
14. Which of these materials cannot contribute to earning MR Credit 2 Construction Waste Management? [Choose Two]
- A. Concrete
 - B. Plastic
 - C. Excavated soil
 - D. Carpet
 - E. Land-clearing debris

15. Which of the following salvaged materials contribute to achieving MR Credit Building Life-Cycle Impact Reduction? [Choose two]
- A. Elevators
 - B. HVAC equipment
 - C. Beams
 - D. Decorative items
 - E. Cabinets
16. If the value is not known, how is the percentage of a material that is part of a building product assembly determined?
- A. Weight
 - B. Cost or square footage
 - C. Cost
 - D. Square footage
17. Which of the following LEED Materials and Resources credits requires a Chain of Custody (COC) document?
- A. Construction Waste Management
 - B. Recycled Content
 - C. Rapidly Renewable Materials
 - D. Certified Wood
18. What can a project assume for the default recycled content for steel products where no recycled content information is available?
- A. 25% preconsumer
 - B. 25% postconsumer
 - C. 50% postconsumer
 - D. 50% preconsumer
19. For MR Credit BPD&O –Material Ingredients, Option 2: Material Ingredient Optimization, products that are certified Cradle to Cradle v2 Platinum are valued at what percentage?
- A. 25%
 - B. 100%
 - C. 150%
 - D. 200%
20. How can projects earn MR Credit Construction and Demolition Waste? [Choose two]
- A. Divert 50% of the total construction and demolition material from at least two material waste streams
 - B. Divert 50% of the total construction and demolition material from at least three material waste streams
 - C. Do not generate more than 2.5 pounds of construction waste per square foot of the building's floor area
 - D. Do not generate more than 5.0 pounds of construction waste per square foot of the building's floor area