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## LEED Green Associate and AP BD+C Exam Prep + Experience



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With Lorne Mlotek

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## USGBC LEED AP Homes (Residential) Exam Sample Questions (Q24-Q29):

### NEW QUESTION # 24

If the roof sheathing of a home is constructed of certified lumber approved for LEED, under what circumstances can points be earned?

- A. If the certified wood is sourced from a 600 mi. (966 km) radius
- B. No points are earned because certified lumber is a prerequisite
- C. If the certified content is greater than 45%
- D. If the certified content is greater than 90%

**Answer: D**

Explanation:

The LEED for Homes Rating System (v4) awards points for the Materials and Resources (MR) Credit:

Environmentally Preferable Products when using certified lumber, specifically Forest Stewardship Council (FSC)-certified wood, which contributes to the required percentage of material cost.

According to the LEED Reference Guide for Homes Design and Construction (v4):

MR Credit: Environmentally Preferable Products (1-4 points)

Use FSC-certified wood for at least 25% (1 point), 50% (2 points), or 90% (3-4 points) by cost of the total materials. For specific

material categories like roof sheathing, at least 90% of the component (by cost) must be FSC-certified to significantly contribute to the credit.

Source: LEED Reference Guide for Homes Design and Construction, v4, Materials and Resources Credit:

Environmentally Preferable Products, p. 160-161.

The LEED v4.1 Residential BD+C rating system confirms:

MR Credit: Environmentally Preferable Products

Points are awarded for FSC-certified lumber if it constitutes at least 90% of a specific component like roof sheathing (by cost) to meet higher point thresholds (e.g., 3-4 points). Certified lumber is not a prerequisite; it contributes to the credit.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The correct answer is if the certified content is greater than 90% (Option B), as this ensures the roof sheathing significantly contributes to the credit's material cost threshold for points.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 161.

C). If the certified wood is sourced from a 600 mi. (966 km) radius: Local sourcing (within 100 miles) is relevant for Option 1: Local Production, not FSC certification. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit:

Environmentally Preferable Products, p. 160.

D). No points are earned because certified lumber is a prerequisite: Certified lumber is not a prerequisite; MR Prerequisite: Certified Tropical Wood applies only to tropical wood, not all lumber. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Prerequisite: Certified Tropical Wood, p. 156.

The LEED AP Homes Candidate Handbook emphasizes MR credits, including certified lumber, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of FSC certification thresholds.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Materials and Resources Credit: Environmentally Preferable Products, p. 160-161.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming certified lumber criteria.

## NEW QUESTION # 25

For a typical single-family home, plumbing fixtures may account for what fraction of the home's total indoor water use?

- A. 1/3
- **B. 2/3**
- C. 1/2
- D. 3/4

**Answer: B**

Explanation:

The LEED for Homes Rating System (v4) addresses indoor water use in the Water Efficiency (WE) Credit:

Indoor Water Use, which focuses on reducing water consumption through efficient plumbing fixtures (e.g., toilets, faucets, showerheads). Understanding the contribution of fixtures to total indoor water use is key to this credit.

According to the LEED Reference Guide for Homes Design and Construction (v4):

WE Credit: Indoor Water Use (1-6 points)

In a typical single-family home, plumbing fixtures (toilets, showerheads, and faucets) account for approximately two-thirds (2/3) of total indoor water use. Installing high-efficiency fixtures can significantly reduce water consumption.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Indoor Water Use, p. 96.

The LEED v4.1 Residential BD+C rating system confirms:

WE Credit: Indoor Water Use

Plumbing fixtures typically represent about 2/3 of indoor water use in single-family homes, making their efficiency critical for achieving water savings.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The correct answer is 2/3 (Option C), as plumbing fixtures account for approximately two-thirds of a typical single-family home's indoor water use.

Why not the other options?

\* A. 1/3: This underestimates the contribution of plumbing fixtures, which are the primary indoor water users.

\* B. 1/2: This is closer but still underestimates the typical proportion (2/3).

Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

The LEED AP Homes Candidate Handbook emphasizes WE credits, including indoor water use, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of the 2/3 fraction.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit:

Indoor Water Use, p. 96.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming indoor water use proportions.

### NEW QUESTION # 26

A home in climate zone 2's window-to-floor area ratio increases from 10% to 30%. What is necessary to qualify for the Energy and Atmosphere Credit Windows?

- A. More stringent U-factor requirement
- B. Less stringent U-factor requirement
- C. Less stringent solar heat gain coefficient
- D. More stringent solar heat gain coefficient

**Answer: A**

Explanation:

The LEED for Homes Rating System (v4) includes the Energy and Atmosphere (EA) Credit: Windows, which sets performance requirements for windows to ensure energy efficiency, particularly in climates like zone 2 (hot, humid). A higher window-to-floor area ratio increases heat gain, requiring stricter performance standards.

According to the LEED Reference Guide for Homes Design and Construction (v4):

EA Credit: Windows (1-3 points)

In climate zone 2, for a window-to-floor area ratio exceeding 24% (or significantly increased, e.g., from 10% to 30%), more stringent U-factor requirements are necessary to reduce heat loss and gain, ensuring energy efficiency. The U-factor must be lower to compensate for the larger glazing area.

Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit: Windows, p. 122.

The LEED v4.1 Residential BD+C Rating system confirms:

EA Credit: Windows

For higher window-to-floor area ratios (e.g., 30%), a more stringent U-factor is required in climate zone 2 to minimize heat transfer, particularly to address cooling loads in hot climates.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The correct answer is more stringent U-factor requirement (Option A), as a lower window-to-floor area ratio requires a lower U-factor to maintain energy efficiency in climate zone 2.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Windows, p. 122.

C). Less stringent solar heat gain coefficient: In climate zone 2, a more stringent SHGC may also be needed, but U-factor is the primary concern for heat transfer control. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Windows, p. 122.

D). More stringent solar heat gain coefficient: While SHGC is relevant in hot climates, the question focuses on U-factor for thermal performance. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Windows, p. 122.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including window performance, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of U-factor requirements.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Windows, p. 122.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming window performance requirements.

### NEW QUESTION # 27

A home has a large shower compartment of 3,750 in<sup>2</sup> (2.4 m<sup>2</sup>) with dual 1.5 gpm (5.6 lpm) shower heads. How should the flow rate be calculated?

- A. The flow rates are added to total 3.0 gpm (11.2 lpm)
- **B. Multiple shower heads are not allowed**
- C. The flow rate is calculated as two separate compartments of 1.5 gpm (5.6 lpm)
- D. Shower compartment size does not affect shower head flow rates for LEED compliance

### Answer: B

Explanation:

The LEED for Homes Rating System (v4) addresses shower compartments in the Water Efficiency (WE) Credit: Indoor Water Use, where the size and number of showerheads impact water use calculations.

According to the LEED Reference Guide for Homes Design and Construction (v4):

WE Credit: Indoor Water Use (1-6 points)

A shower compartment is defined as an enclosed area with a floor area of no more than 2,500 in<sup>2</sup> (1.6 m<sup>2</sup>), where all fixtures (e.g., multiple showerheads) count as a single fixture for water use calculations.

Compartments larger than 2,500 in<sup>2</sup> are considered multiple compartments, and multiple showerheads in such cases are not allowed for LEED compliance to ensure water efficiency.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Indoor Water Use, p. 96.

The LEED v4.1 Residential BD+C Crating system confirms:

WE Credit: Indoor Water Use

For shower compartments exceeding 2,500 in<sup>2</sup> (1.6 m<sup>2</sup>), multiple showerheads are not permitted to maintain water efficiency goals.

Each compartment must be treated separately if applicable, but large compartments cannot have multiple heads.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The shower compartment is 3,750 in<sup>2</sup> (2.4 m<sup>2</sup>), exceeding the 2,500 in<sup>2</sup> limit. Therefore, multiple showerheads are not allowed (Option C), as LEED restricts multiple heads in oversized compartments to ensure water efficiency.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

B). The flow rate is calculated as two separate compartments of 1.5 gpm (5.6 lpm): The compartment is one unit, and multiple heads are not allowed, not treated as separate compartments. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

D). Shower compartment size does not affect shower head flow rates for LEED compliance:

Compartment size directly affects whether multiple heads are allowed. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Indoor Water Use, p. 96.

The LEED AP Homes Candidate Handbook emphasizes WE credits, including showerhead calculations, and references the LEED Reference Guide for Homes Design and Construction as a key resource. The exam is based on LEED v4, ensuring the relevance of compartment size restrictions.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit: Indoor Water Use, p. 96.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming showerhead restrictions.

### NEW QUESTION # 28

A gut rehab LEED for Homes project will maintain the building's existing exterior wall and floor framing. Under Materials and Resources Credit, Environmentally Preferable Products category, these components get credit for being:

- A. Recycled
- B. Refurbished
- C. Restructured
- **D. Reclaimed**

**Answer: D**

Explanation:

The LEED for Homes Rating System (v4) awards points for the Materials and Resources (MR) Credit:

Environmentally Preferable Products for using materials with sustainable attributes, such as reused or salvaged materials. In a gut rehab project, maintaining existing exterior wall and floor framing qualifies these components as reused materials.

According to the LEED Reference Guide for Homes Design and Construction (v4):

MR Credit: Environmentally Preferable Products (1-4 points)

Use products that meet one or more of the following criteria for at least 25%, 50%, or 90% (by cost) of the total materials:

\* Reused or salvaged materials: Materials that are reclaimed from the same or another project, such as existing framing maintained in a gut rehab. In gut rehab projects, existing structural components (e.g., wall and floor framing) that are reused in place qualify as reclaimed materials. Source: LEED Reference Guide for Homes Design and Construction, v4, Materials and Resources Credit:

Environmentally Preferable Products, p. 160.

The LEED v4.1 Residential BD+C Rating system confirms:

MR Credit: Environmentally Preferable Products

Reclaimed materials, such as existing framing reused in gut rehab projects, contribute to the percentage of environmentally preferable products based on their cost.

Source: LEED v4.1 Residential BD+C, Credit Library, accessed via USGBC LEED Online.

The term reclaimed (Option B) is used in LEED to describe materials that are reused or salvaged, such as existing framing kept in place during a gut rehab. This reduces the demand for new materials and aligns with the credit's intent.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

C). Refurbished: Refurbished materials are restored or repaired for reuse (e.g., refinished doors). Framing maintained in place is not refurbished but simply reused, so this term does not apply. Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

D). Restructured: This term is not used in LEED and does not describe the reuse of existing framing.

Reference: LEED Reference Guide for Homes Design and Construction, v4, MR Credit: Environmentally Preferable Products, p. 160.

The LEED AP Homes Candidate Handbook emphasizes MR credits, including Environmentally Preferable Products, and references the LEED Reference Guide for Homes Design and Construction as a key resource.

The exam is based on LEED v4, ensuring the relevance of the term "reclaimed." References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Materials and Resources Credit: Environmentally Preferable Products, p. 160.

LEED v4.1 Residential BD+C, USGBC LEED Credit Library, accessed via LEED Online (<https://www.usgbc.org/credits>).

LEED AP Homes Candidate Handbook, GBCI, October 2024, p. 12 (references study resources and exam scope based on LEED v4).

USGBC LEED for Homes Rating System (v4), available via USGBC website (<https://www.usgbc.org/resources/leed-homes-design-and-construction-v4>).

LEED v4.1 for Homes, USGBC, accessed via LEED Online, confirming reclaimed material criteria.

### NEW QUESTION # 29

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