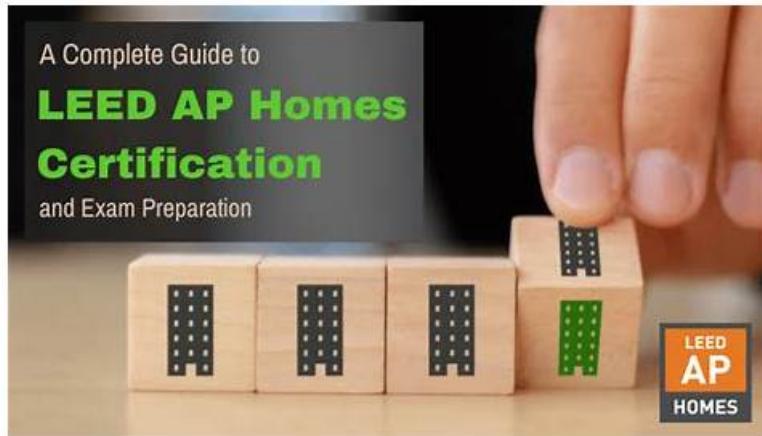


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## LEED-AP-Homes Reliable Test Answers - Reliable LEED-AP-Homes Dumps Ppt

The Prep4King is one of the top-rated and renowned platforms that has been offering real and valid LEED AP Homes (Residential) Exam (LEED-AP-Homes) exam practice test questions for many years. During this long time period countless LEED AP Homes (Residential) Exam (LEED-AP-Homes) exam candidates have passed their dream certification and they are now certified USGBC professionals and pursuing a rewarding career in the market.

## USGBC LEED AP Homes (Residential) Exam Sample Questions (Q51-Q56):

### NEW QUESTION # 51

Which of the following could be done to receive credit under Sustainable Sites Credit, Nontoxic Pest Control?

- A. Use treated wood for all wood-to-concrete connections
- B. Treat all material with a borate product
- C. Treat all wood framing with a borate product to a minimum of 3 ft. (0.9 m) below foundation
- D. Install landscaping within 24 in. (0.6 m) of home

**Answer: A**

Explanation:

The LEED for Homes Rating System (v4) includes the Sustainable Sites (SS) Credit: Nontoxic Pest Control

, which awards points for physical or nontoxic strategies to prevent pest entry, such as termites, without relying on chemical treatments unless specifically allowed.

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

SS Credit: Nontoxic Pest Control (1 point)

Use treated wood (e.g., pressure-treated or borate-treated) for all wood-to-concrete connections to prevent termite damage in a way that minimizes environmental impact compared to broad chemical treatments. This is considered a nontoxic or low-toxicity strategy for pest control.

Source: LEED Reference Guide for Homes Design and Construction, v4, Sustainable Sites Credit: Nontoxic Pest Control, p. 82. The LEED v4.1 Residential BD+Crating system confirms:

SS Credit: Nontoxic Pest Control

Using treated wood for wood-to-concrete connections is an acceptable strategy to earn points by preventing pest access while minimizing chemical use.

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

The correct answer is use treated wood for all wood-to-concrete connections (Option C), as this is a recognized nontoxic pest control strategy for the credit.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Nontoxic Pest Control, p. 82.

B). Install landscaping within 24 in. (0.6 m) of home: This may increase pest access, contradicting the credit's intent. Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Nontoxic Pest Control, p. 82.

D). Treat all wood framing with a borate product to a minimum of 3 ft. (0.9 m) below foundation: This is not a standard strategy and may involve excessive chemical use, not aligning with nontoxic goals. Reference:

LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Nontoxic Pest Control, p. 82.

The LEED AP Homes Candidate Handbook emphasizes SS credits, including nontoxic pest control, 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 treated wood strategies.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Sustainable Sites Credit: Nontoxic Pest Control, p. 82.

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 pest control strategies.

## NEW QUESTION # 52

Envelope leakage is measured in air changes per hour (ACH) at what pressure differential?

- A. 100 pascals
- B. 50 pascals**
- C. 25 pascals
- D. 75 pascals

**Answer: B**

Explanation:

The LEED for Homes Rating System (v4) requires blower door testing in the Energy and Atmosphere (EA) Credit: Air Infiltration to measure envelope leakage, expressed as air changes per hour (ACH) at a specific pressure differential.

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

EA Credit: Air Infiltration (1-3 points)

Conduct a blower door test to measure envelope leakage in air changes per hour (ACH) at a pressure differential of 50 pascals (Pa). This standardizes the measurement of air tightness across projects.

Source: LEED Reference Guide for Homes Design and Construction, v4, Energy and Atmosphere Credit: Air Infiltration, p. 124. The LEED v4.1 Residential BD+Crating system confirms:

EA Credit: Air Infiltration

Envelope leakage is measured using a blower door test at 50 pascals, reported as ACH50, to assess the airtightness of the building envelope.

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

The correct answer is 50 pascals (Option B), as this is the standard pressure differential for measuring ACH in LEED for Homes.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Air Infiltration, p. 124.

C). 75 pascals: Higher pressures are not used, as 50 pascals is the industry standard for consistency. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Air Infiltration, p. 124.

D). 100 pascals: This is too high and not used in residential testing standards. Reference: LEED Reference Guide for Homes Design and Construction, v4, EA Credit: Air Infiltration, p. 124.

The LEED AP Homes Candidate Handbook emphasizes EA credits, including air infiltration testing, 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 50-pascal standard.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Energy and Atmosphere Credit: Air Infiltration, p. 124.

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 ACH50 testing standard.

### NEW QUESTION # 53

For a one-bedroom unit in a multi-family building, the minimum bathroom airflow requirement for intermittent local exhaust is:

- A. 25 cfm (11 lps)
- B. 1 cfm per ft<sup>2</sup> (5.08 lps per m<sup>2</sup>)
- C. 2 cfm per ft<sup>2</sup> (10.16 lps per m<sup>2</sup>)
- D. 50 cfm (23 lps)

**Answer: D**

Explanation:

The LEED for Homes Rating System (v4) addresses bathroom ventilation requirements in the Indoor Environmental Quality (EQ) Prerequisite: Ventilation, which references ASHRAE Standard 62.2-2010 for minimum airflow rates in residential buildings, including multi-family units.

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

EQ Prerequisite: Ventilation

For intermittent local exhaust in bathrooms, ASHRAE Standard 62.2-2010 requires a minimum airflow rate of 50 cfm (23 lps) for each bathroom to effectively remove moisture and pollutants. This applies to all dwelling units, including one-bedroom units in multi-family buildings.

Source: LEED Reference Guide for Homes Design and Construction, v4, Indoor Environmental Quality Prerequisite: Ventilation, p. 142.

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

EQ Prerequisite: Ventilation

Intermittent local exhaust in bathrooms must provide at least 50 cfm (23 lps) per ASHRAE 62.2-2010 to ensure adequate ventilation in multi-family units.

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

The correct answer is 50 cfm (23 lps) (Option B), as this is the minimum airflow requirement for intermittent bathroom exhaust in a one-bedroom unit per ASHRAE 62.2-2010.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

C). 1 cfm per ft<sup>2</sup> (5.08 lps per m<sup>2</sup>): Bathroom exhaust is not based on floor area but on a fixed rate (50 cfm for intermittent systems). Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

D). 2 cfm per ft<sup>2</sup> (10.16 lps per m<sup>2</sup>): This is also not based on floor area and is incorrect for bathroom exhaust requirements. Reference: LEED Reference Guide for Homes Design and Construction, v4, EQ Prerequisite: Ventilation, p. 142.

The LEED AP Homes Candidate Handbook emphasizes EQ prerequisites, including ventilation requirements, 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 ASHRAE 62.2-2010.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Indoor Environmental Quality Prerequisite: Ventilation, p. 142.

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 bathroom exhaust requirements.

#### NEW QUESTION # 54

A builder plans to build two semi-detached residential homes at a rural lot he just bought, where the municipal water system cannot reach. The homes will use well water dug on site. The builder would like to build the two units as LEED certified homes. To meet the prerequisite of Water Efficiency domain in LEED Homes, what should the builder do?

- A. Install two water meters for each unit separately
- B. At least one water meter will be shared by two units, and another separate meter will be used for monitoring landscaping water usage
- C. These two semi-detached homes will be exempt from the prerequisite of Water Efficiency
- D. Use one water meter for the entire building of two units

**Answer: A**

Explanation:

The LEED for Homes Rating System (v4) includes the Water Efficiency (WE) Prerequisite: Total Water Use, which requires metering to monitor water consumption in LEED-certified homes, even those using well water.

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

WE Prerequisite: Total Water Use

Install water meters to measure total potable water use for the entire home, including indoor and outdoor uses.

For multifamily or attached housing (e.g., semi-detached homes), each dwelling unit must have its own water meter to track individual usage accurately.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Prerequisite: Total Water Use, p. 94.

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

WE Prerequisite: Total Water Use

In attached housing projects, such as semi-detached homes, each unit must have a separate water meter to monitor potable water use, regardless of whether the water source is municipal or well water.

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

For two semi-detached homes using well water, the builder must install two water meters for each unit separately (Option A) to comply with the prerequisite, ensuring individual monitoring of water use for each dwelling unit.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Prerequisite: Total Water Use, p. 94.

C). These two semi-detached homes will be exempt from the prerequisite of Water Efficiency: There is no exemption for well water; all LEED homes must meet the metering prerequisite. Reference: LEED Reference Guide for Homes Design and Construction, v4, WE Prerequisite: Total Water Use, p. 94.

D). At least one water meter will be shared by two units, and another separate meter will be used for monitoring landscaping water usage: Individual unit metering is required, and while a separate landscaping meter is encouraged (e.g., for WE Credit: Outdoor Water Use), it is not a prerequisite requirement. Reference:

LEED Reference Guide for Homes Design and Construction, v4, WE Credit: Outdoor Water Use, p. 98.

The LEED AP Homes Candidate Handbook emphasizes WE prerequisites, including water metering, 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 individual metering for attached homes.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Prerequisite: Total Water Use, p. 94.

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 metering requirements.

### NEW QUESTION # 55

The intent of Water Efficiency Credit, Outdoor Water Use, is to minimize which of the following?

- A. Heat island effect
- B. Wildlife habitat
- C. Building footprint
- D. Fertilizer use

#### Answer: A

Explanation:

The LEED for Homes Rating System (v4) includes the Water Efficiency (WE) Credit: Outdoor Water Use, which aims to reduce irrigation water consumption through strategies like native plant selection and efficient irrigation systems. According to the LEED Reference Guide for Homes Design and Construction (v4):

WE Credit: Outdoor Water Use (1-4 points)

The intent is to reduce outdoor water consumption for irrigation, thereby minimizing the environmental impact of water use and indirectly supporting other sustainability goals, such as reducing energy use associated with water delivery. While not directly targeting the heat island effect, efficient irrigation can contribute to cooler landscapes by supporting vegetation, unlike the Sustainable Sites Credit: Heat Island Reduction, which directly addresses heat island mitigation.

Source: LEED Reference Guide for Homes Design and Construction, v4, Water Efficiency Credit: Outdoor Water Use, p. 98.

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

WE Credit: Outdoor Water Use

The primary intent is to minimize outdoor water use for irrigation, which can also support vegetated surfaces that mitigate the heat island effect, though this is a secondary benefit.

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

The correct answer is heat island effect (Option C), as reducing outdoor water use supports vegetated landscapes that help mitigate heat island effects, aligning with the credit's broader environmental goals. Note that the primary intent is water reduction, but among the options, heat island effect is the most relevant secondary benefit.

Why not the other options?

Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Nontoxic Pest Control, p. 82.

B). Building footprint: This is relevant to LT Credit: Compact Development, not outdoor water use.

Reference: LEED Reference Guide for Homes Design and Construction, v4, LT Credit: Compact Development, p. 57.

D). Wildlife habitat: Native plants support habitat (SS Credit: Site Development), but this is not the intent of WE Outdoor Water Use. Reference: LEED Reference Guide for Homes Design and Construction, v4, SS Credit: Site Development - Protect or Restore Habitat, p. 74.

The LEED AP Homes Candidate Handbook emphasizes WE credits, including outdoor 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 water reduction goals.

References:

LEED Reference Guide for Homes Design and Construction, v4, USGBC, Water Efficiency Credit: Outdoor Water Use, p. 98.

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 outdoor water use intent.

### NEW QUESTION # 56

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