What is Accessibility Compliance?

Worksheet

Accessibility compliance is meeting legal accessibility standards (such as the ADA) in building design - for example, ramps must not exceed a 1:12 slope (one inch of rise for every 12 inches of run) so wheelchair users can safely travel up them.

Questions

1. What is the maximum ramp slope allowed under the ADA?

A) 1:8
B) 1:12
C) 1:20
D) 1:6

2. A ramp needs to rise 18 inches. What is the minimum ramp length required?

A) 18 inches
B) 108 inches
C) 216 inches
D) 36 inches

3. What is the ADA minimum clear width for accessible doorways?

A) 24 inches
B) 28 inches
C) 32 inches
D) 40 inches

4. Which best describes accessibility compliance?

A) An optional design trend
B) A legal minimum standard for equal access
C) A style of interior decoration
D) Only applicable to new residential homes

5. A building entrance has a 30-inch rise from the sidewalk to the door. What is the minimum ramp length required under the ADA's maximum 1:12 slope rule?

6. A doorway has a measured clear width of 30 inches. Does it meet the ADA's minimum clear-width requirement of 32 inches?

7. A ramp rises 4 inches over a run of 60 inches. Is this slope ADA-compliant?

8. Define: What is the ADA's maximum ramp slope?

9. Define: What is the minimum clear width for an accessible doorway?

10. Define: What is accessibility compliance?

Answer Key

1. B) 1:12 - ADA requires a maximum running slope of 1:12 (one inch rise per 12 inches of run) for new ramps.

2. C) 216 inches - Minimum run = rise 12 = 18 12 = 216 inches.

3. C) 32 inches - 32 inches of clear width is the ADA minimum for doorways.

4. B) A legal minimum standard for equal access - Accessibility compliance refers to meeting legally mandated minimum standards (like the ADA) for equal access.

5. Max allowed slope = 1:12, meaning 12 inches of run for every 1 inch of rise. Minimum run = rise 12 = 30 12 = 360 inches. Convert to feet: 360 12 = 30 feet minimum ramp length.

6. ADA minimum clear width for doorways = 32 inches. Measured clear width = 30 inches. 30 < 32, so the doorway does not comply - it must be widened by at least 2 inches.

7. Slope = rise / run = 4 / 60 = 0.0667 = 6.67%. ADA maximum allowed slope = 1/12 8.33%. 6.67% < 8.33%, so this ramp is compliant - and even gentler than the minimum requirement.

8. 1:12 - one inch of vertical rise for every 12 inches of horizontal run (about 8.33%).

9. 32 inches of clear width (measured door opening when open 90).

10. Designing buildings to meet legal accessibility standards, like the ADA, that guarantee equal access for people with disabilities.