

CODE ENFORCEMENT AGENCY

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2026 X Residential Deck Construction **Guidelines & Answers**



Code Reference

- PA UCC & IRC 2018 Edition
- Refer to Section R507 of the IRC for deck-specific code.
- Consult with a PA Design Professional should you need help or assistance.

Minimum Plan Requirements

1. Deck Layout- (As detailed as possible)

- Dimensions & footprint (including height from grade)
- Materials (wood, composite, etc.)
- Footing details
- Rail/barrier info
- Fasteners & connectors
- Beam bearing & lateral supports
- Joists & ledger details
- Band joist & flashing
- Stair dimensions & handrails
- Stairway landing (if applicable)

Load Requirements

Live Load: 40 psi Dead Load: 10 psi Snow Load: 40 psi

Footing Details

Minimum Depth: 36"Materials Used: Specify

• Backfill Description: Required for post supports

Deck Framing

- Type of framing & materials
- · Height & span of framing
- Joist span & connections
- Lateral load connectors
- Bridging (if applicable)
- Deck flooring & flashing

Deck Flashing

- · Method of flashing
- Water & debris diversion from ledger

🤏 Fasteners & Hardware

- Type of fasteners (NO screws unless approved)
- Placement in ledger & band joists
- Lateral load connectors
- Braces, brackets, hangers

Post & Beam Details

- Beam type, material, span
- Beam-to-post connection
- Beam-to-joist fasteners (e.g., hurricane straps)

Beam Span Chart (Table R507.5)

• Example: 2x10 beam with 18' joist span = 5' beam length (1' cantilever max)

△ Deck Post Maximum Heights

Post Size Max Height

6'-9" 4x4

4x6 8'-0"

14'-0" 6x6

8x8 14'-0"

🖺 Steps, Barriers, Guards & Handrails

- Affixation details to deck/posts
- Rise & tread dimensions
- Handrails must be:
 - Treated material
 - o Graspable or rounded
 - No squared 2x4s or untreated wood



Exterior Electrical Outlet- *REQUIRED*

- Required if none present
- Must be exterior-rated
- Located within 6'6" of deck surface (IRC E3901.7 / NEC 210.52(E))

Common Application Failures

Before submitting, ensure you've addressed:

- Structure composition
- Deck attachment method
- Wood species
- Fastener types
- Grade projection
- Gross area (including steps)
- Landing requirements
- Handrail & lateral support details
- Flashing & hurricane ties
- Electrical outlet presence
- Proof of Workman's Compensation or Notarized Affidavit Waiver

Important Notes

- Material lists/contracts are NOT sufficient
- Provide descriptive layout or narrative
- Plans must be LEGIBLE
- No permit issued without full details
- Building Department & CEA cannot assist with design
- Consult a PA design professional if needed
- Registration in the Pennsylvania Attorney General's Database is NOT a
 license to perform construction in the Commonwealth of Pennsylvania. This
 HIP# is solely for a contractor's protection Act.
- The above captioned are the minimum code requirement for residential plans review for permitting and subject to a PA UCC Residential Permit for a Deck or Roof over a Deck.

Go to: https://codes.iccsafe.org/content/IRC2018P7 ICC Residential Code. Decks Section 507.