

Residential Deck Requirements

General:

- 1. A building permit is required for all deck construction
- 2. The deck structure shall be designed for a 40lb per sq ft load rating
- 3. All wood used shall be pressured treated
- 4. Any alternate posts, decking, guard rail and handrail material used, must be approved by the Planning and Permitting Department
- 5. All fasteners and connectors for preservative treated wood shall be hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper,
- 6. All decks not built on site shall be approved prior to being installed by the Planning and Permitting Department.

Footings:

- 1. The bottom of all footings must be a min. 42" below grade
- 2. Footings must be a min. of 6" thick below the post bottom
- 3. Poured concrete footings shall be a min of 4" wider than the posts (examples: 4x4 post=8" min width, 6x6 post=10" min width)
- 4. Suggested footings be placed a min of 36" away from the house foundation to avoid the back filled area
- 5. A deck may be exempt from the frost protected footing requirements if:
 - a) The deck serves a mobile home on a rented lot.
 - b) Free-standing decks consisting of joists directly supported on grade over their entire length.
 - c) The area of the free standing deck does not exceed 200 sq ft and the deck walking surface is 20" or less above grade.

Posts:

- Post can be set directly onto the footing with tamped back fill around the post or enclosed in concrete below grade or on top of a concrete pier at grade level with an approved post anchor
- 2. Post minimum of 4"x4". Recommended using 6x6 lumber size for post over 8' tall (refer to table R507.4 for specific allowances)
- 3. An engineered plan is required for a deck height over 10' tall.

Decking:

When using different species of wood or composite material follow the manufacturer's recommendations

Rails:

- 1. Guardrails on deck shall be a min of 36" in height above the walking surface and are required on all decks over 30" above grade or the level below
- 2. Railing systems shall able to resist a concentrated load of 200 lbs on or against the top rail at any point and direction
- 3. Guard rails on stairs must be a min of 34" height above the tread nose if the stairs are 30" above grade
- 4. Balusters/pickets shall have no more than a 4" spacing between them on level surfaces and shall be vertical. (NO horizontal balusters or pickets are allowed.)
- 5. Continuous graspable handrails on stairs shall be between 34" and 38" above the tread nose (measured vertically) and are required on stairs of 4 or more risers and shall return to the newel posts or safety terminals.
- 6. The handgrip portion shall have a circular cross section of 1 1/4 " min to 2" max

Stairs:

- 1. Min. stair width is 3' at all points above and below the handrail at min. height
- 2. Max. riser is 7 3/4
- 3. Max. riser opening is 4" when more than 30" above walking area
- 4. Min tread is 10" measured horiz. From the leading edge to leading edge of the tread
- 5. 2"x12" stringers on stairs are required to be a max. of 24" OC and a flight of stairs shall not have a vertical rise greater than 12' 7" between landings.
- 6. All exterior stairways shall be provided with a means of illuminate the stairs, including the landings and the stairs.
- 7. Landings are required at the top and bottom of each stairway.

Plans.

- 1. All plans will be drawn to a scale of 1/4"=1'
- 2. A plot plan is required showing the actual set backs of the residence and the deck from the property line
- 3. A plan drawing showing size and height of the finished deck
- 4. A plan showing the footing sizes and material dimensions.