

Address of Project _____ Application # _____

Applicant's Name (printed) _____ Signature _____
(see note below)

RESIDENTIAL DECK GENERAL NOTES

Supplemental construction notes provided by Hamilton County based on the minimum requirements of the 2013 Residential Code of Ohio and the Hamilton County Building Code

This document, when signed and initialed will become part of the application for permit. The requirements on this document will take precedence over any discrepancies within documents.

The signature of the Applicant above indicates agreement with all of the stated requirements.

Structural Requirements

- Minimum required design loads:
 - floor live load = 40 psf
 - wind load = 90 mph (3-second gust)
 - soil bearing capacity = 1,500 psf
 - guardrails = 200 lbs. concentrated
- If a hot tub or spa is planned, then the exact size, location and weight (full of water) must be shown on the submitted plans. If a hot tub is added later, a separate permit will be required and supports must be added directly below.
- The maximum allowable live load deflection of structural members:
 - floor joists/beams = $L/360$
 - columns (posts) = $L/240$
 - guardrail system = $L/240$
- All concrete footings/piers to have a minimum compressive strength of 2,500 psi. All exterior concrete walks, landings, & patios to have a minimum compressive strength of 3,500 psi. Air entrainment between 5%-7% is required for all concrete exposed to weather or subject to freezing or thawing during construction.
- All deck floor joists, beams, and columns (posts) to be minimum No. 2 grade Southern Yellow Pine.
- All exposed unpainted lumber to be pressure-treated for exterior use. All lumber in direct contact with the ground to be pressure-treated for ground contact use.
- All floor beam & guardrail splices shall occur at a post or on approved & adequate structural bearing.
- All separated deck floor beams shall have full-depth blocking, using the same size wood, installed at a maximum spacing of 24" on center.
- All structural bolts shall be minimum $\frac{1}{2}$ " diameter, corrosion-resistant, and shall be compatible with the specific type of pressure-treated lumber being used.
- All pre-engineered structural wood connectors shall be installed in strict accordance with the manufacturer's specifications & installation instructions (including proper fastener type & size).

Guardrails, Handrails, and Stairs

- Guardrails are required for all areas where the the deck floor (or deck stair) is 30" or greater above the adjacent grade.
- Guardrail post spacing shall not exceed 6'-0". Guardrail posts shall be thru-bolted to the deck floor framing.
- Guardrails shall be a minimum height of 36", and the balusters shall be installed in a manner that does not allow the passage of a 4" diameter sphere.
- Handrails shall have a height between 34"-38". At the open sides of stairs the balusters shall not allow the passage of a $4\frac{3}{8}$ " diameter sphere.
- Handrails shall be continuous and, at the top and bottom of the stair, terminate into a post (or return to a wall). Handrails shall be graspable or a finger recess area will be provided.
- All stairs shall be minimum 36" wide and have minimum 9" treads & maximum $8\frac{1}{4}$ " risers. Stairs with solid risers shall have nosings which project between $\frac{3}{4}$ "-1 $\frac{1}{4}$ ". Stairs with open risers shall be constructed in a manner that does not allow the passage of a 4" diameter sphere.
- The bottom of all stairs at finish grade shall be provided with a stair landing which is a minimum 3'-0" deep by the width of the stair.

Miscellaneous Items

- Illumination shall be provided for the full length of the stair and the associated landings.
- The height of the existing door threshold of the main residence over the top of the new deck shall not be greater than 16 $\frac{1}{2}$ " (max. 2 risers @ $8\frac{1}{4}$ ") without the addition of a landing.
- Original finish grade for the disturbed portion of the site shall be maintained and slope away from the existing residence.