

Village of Northfield
361 Happ Road
Northfield, IL 60093
Phone: (847) 446-9200
Fax: (847) 446-4670

WOOD DECK REQUIREMENTS

SUBMITTAL REQUIREMENTS:

1. One (1) copy of the plat of survey, showing where the deck will be located.
2. Three (3) sets of plans, showing the dimensions and materials to be used. Indicate spacing of deck joists, posts and spans. A deck cross-section is available in the Building Department and may be used as plans.

INSPECTIONS:

- 1) Twenty-four (24) hour notice is required for all inspections.
- 2) Two (2) deck inspections are required:
 - a) Post hole depth inspection
 - b) Final inspection
- 3) No one needs to be home for either inspection.

CONSTRUCTION INFORMATION:

- Decks must be located outside of all easements.
- Minimum depth of piers is 42" below grade.
- Minimum diameter of post holes is 8", with a minimum post size of 4" x 4".

Decking Material

5/4" Boards
2" Boards

Maximum Joist Spacing

16" O.C.*
24" O.C.*

- Maximum spans between piers for wood beams that are used for support.

Two 2 x 6 on edge –	5' 6"
Two 2 x 8 on edge –	7' 6"
Two 2 x 10 on edge –	9' 6"
Two 2 x 12 on edge –	11' 0"

- Maximum spans for floor joists (assumable live load of 40 lbs. per square foot):

<u>Joist Size</u>	<u>16" O.C.* Spacing</u>	<u>24" O.C.* Spacing</u>
2 x 6	8' 10"	7' 9"
2 x 8	11' 8"	10' 2"
2 x 10	14' 11"	13' 0"
2 x 12	18' 1"	15' 10"

* O.C. = On Center

- **Landings:** A minimum 3' x 3' landing shall be required on each side of an egress door.

- **Stairways:**

General – When risers are closed, all treads may have a uniform projection not to exceed 1 1/2".

The greatest riser height within any flight of stairs shall not exceed the smallest by more than 3/8". The greatest tread run within any flight of stairs shall not exceed the smallest by more than 3/8".

Stairways shall not be less than 3' in clear width, and the headroom rise and run shall conform to Figure No. 2-213.1 (below). Handrails may project from each side of a stairway a distance of 3 1/2" into the required width.

Windings – Winders are permitted, provided the width of the tread at a point not more than 12" from the side where the treads are narrower is not less than 9", the minimum width of any tread is not less than 6", and the average width of any tread is not less than 9".

Spiral Stairs – Spiral stairways are permitted, provided the minimum width shall be 26" with each tread having a 7 1/2" minimum tread width at 12" from the narrow edge. All treads shall be identical, and the rise shall be no more than 9 1/2". A minimum headroom of 6' 6" shall be provided.

Handrails and Guardrails:

Handrails – Handrails having minimum and maximum heights of 30" and 38", respectively, measured vertically from the nosing of the treads, shall be provided on at least one side of stairways of three or more risers. Spiral stairways and winders shall have the required handrail located on the outside radius. All required handrails shall be continuous the full length of the stairs. Ends shall be returned or shall terminate in newel posts or safety terminals.

The handgrip portion of the handrails shall not be more than 2 5/8" in cross-sectional dimension, or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. Handrails projecting from a wall shall have a space of not less than 1 1/2" between the wall and the handrail.

Guardrails – Porches, balconies or raised floor surfaces located more than 30" above the floor or grade below shall have guardrails not less than 36" in height.

Open sides of stairs with a total rise of more than 30" above the floor or grade below shall have guardrails not less than 34" in height measured vertically from the nosing of the treads.

Required guardrails on open sides of stairways, raised floor areas, balconies and porches shall have intermediate rails or ornamental closures which will not allow passage of an object 6" or more in diameter. Horizontal spacing between the vertical members in required guardrails shall be a maximum of 4" at the nearest point between the members.

Exception: The triangular openings formed by the riser, tread and bottom rail of a guard at the open side of a stairway may be of such a size that a sphere 6" in diameter cannot pass through.

DECK CROSS SECTION

Joist Size: _____	Support Post Size: _____	Beam Size: _____	<input type="radio"/> Decking span or joint spacing
Joist Span: _____	Support Post Spacing: _____	Footing Depth: _____ (42" Minimum)	<input type="radio"/> Joist span or beam spacing
Joist Spacing: _____	Deck Height above Ground: _____	Post Holes: _____ (8" Minimum Diameter)	<input type="radio"/> Beam span or post spacing
Deck Dimension: _____	Railing: ____ Yes ____ No	Number of stair treads leading up to deck: _____	
Deck Board Size: _____	If yes, how high? _____		

Will the deck be located under electrical lines? ____ Yes ____ No

If yes, how many feet above deck floor are electrical lines located? _____

Will deck be attached to home? ____ Yes ____ No

LANDSCAPE FABRIC AND GRAVEL IS REQUIRED.