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STAIRS, LANDINGS, HANDRAILS, AND GUARDS

- This handout is intended only as a guide. It shall not be considered a complete set of requirements.
- Materials and installation must comply with the current Minnesota State Building Code and the manufacturers' installation specifications for each product.
- A building permit is required for any stairway serving any part of a dwelling or accessory structure. This includes exterior stairs from a dwelling or garage to grade, as well as stairs serving decks, porches, balconies, sun rooms, and similar structures.

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	Building Permit Application, completed in its entirety, including signature and valuation.
	SUPPLEMENTAL WORKSHEET FOR DECKS (included in this handout).
	One set of plans (drawn to scale) showing the proposed design, and including:
	□ Plan and elevation views □ Stringer size and species □
	□ Rise and run dimension □ Tread size and species
	□ Riser size and species □ Stringer to landing connection
	□ Location in relation to property lines for exterior stairs.
	□ List what construction materials are to be used.
	For exterior stairs, A site plan (or Certificate of Survey if required by municipality) drawn to scale
	and dimensioned, identifying proposed stairway dimensions with measurements from the adjacent lo
	lines; as well as all lot lines, setbacks, easements, adjacent street names, and all structures on the
	property. Check with your municipality to determine setback requirements for the property.
	Additional information may be required by the plan reviewer.

PERMIT CARD AND APPROVED PLANS (throughout the project) shall be:

POSTED prior to start of work - VISIBLE from street or driveway - ACCESSIBLE to the inspector

INSPECTION REQUIREMENTS:

Inspections MUST be scheduled during office hours AT LEAST one business day prior to inspection. If a specific date and time is required, additional notice may be needed. Failure to cancel a scheduled inspection may result in a reinspection fee.

- Office Hours: Monday Friday 8:00 a.m. 4:30 p.m.
- **Phone:** (952) 442-7520 or (888) 446-1801

Inspections: (Refer to your permit card regarding project-specific inspections)

- Footings: After holes are dug, but PRIOR TO POURING CONCRETE.
- Framing: Before covering.
- **Final:** After project is complete.

NOTICE: Construction or work for which a permit is required shall be subject to inspection by the Building Official, and such construction or work shall remain accessible and exposed for inspection purposes until approved. It is the responsibility of the permit applicant to be in attendance on site and provide access to the Building Official for all required inspections. If work is concealed and/or work is not complete at time of inspection, an additional inspection is required and a reinspection fee may apply.

Note: The State of Minnesota requires all residential building contractors, remodelers, roofers, plumbers, and electricians to obtain a state license, unless they qualify for a specific exemption. Any person claiming an exemption must provide a copy of a Certificate of Exemption from the Department of Labor & Industry to the Municipality before a permit will be issued.

Note: To determine contractor requirements, or to check the licensing status of a contractor, please call the Minnesota Department of Labor & Industry at 651-284-5065 or toll free 1-800-342-5354.

Note: For specific code requirements, contact the Building Inspection Department at 952-442-7520 or 888-446-1801 or e-mail: info@mnspect.com.

PROJECT INFORMATION:

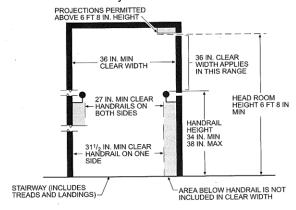
The following is a guideline to assist in compliance with the requirements of the MN State Building Code.

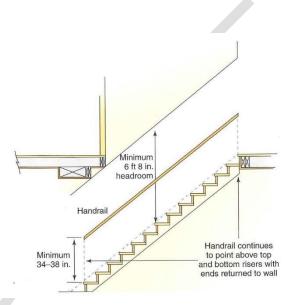
☐ Before you build, check required setbacks established by your municipality.

BEFORE DIGGING, CALL "GOPHER STATE ONE CALL" AT 811. The person doing the excavation is responsible for verifying that there are no conflicts with utilities, both public and private.

STAIRWAYS

Minimum stairway width measured above handrail-36"





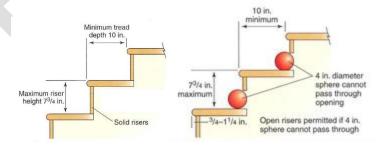
- Headroom-minimum 6'-8"
- Riser height-maximum 7 ¾"
- Tread depth-minimum 10"
- Maximum 3/8" between tallest and shortest riser
- Maximum 3/8" between greatest and smallest tread
- Open risers must prevent passage of 4" sphere
- Nosing projection-minimum ¾", maximum 1 ¼"

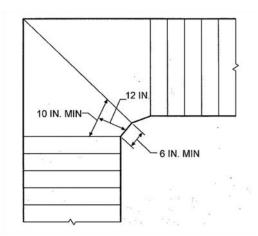
Winding stairs

- Walkline concentric to & 12" from narrow side
- Tread depth-minimum 6" at narrow side
- Tread depth-minimum 10" at walkline
- Dimensional uniformity required at walkline

LANDINGS AT STAIRWAYS

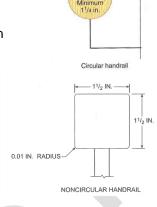
- Minimum width no less than the width of the flight served
- Minimum 36" deep landing required at top & bottom of each stair flight
- Max vertical rise between floors or landings-151"

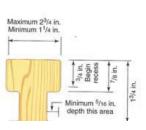


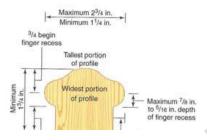


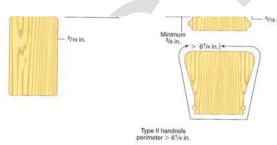
HANDRAILS

- Required on at least one side of flights of stairs with four or more risers
- Top of handrail 34"-38" above line connecting nosing of stairs
 - Volute, turnout, or starting easing OK over lowest tread
 - Fitting or bending OK to exceed maximum height at continuous transition between flights, start of flight, or from handrail to guard
- Ends must return to wall, post or safety terminal
- Minimum 1 ½" space between handrail and wall
- Handrail must be continuous from top riser to bottom riser
 - Maybe interrupted by post at the turn
- Round handrails minimum 1 1/4"-maximum 2" diameter
- Non-round Type I handrails perimeter 4"-6 ¼"
- If perimeter is greater than 6 ¼", grippable finger recess required on both sides of profile



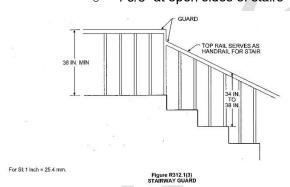


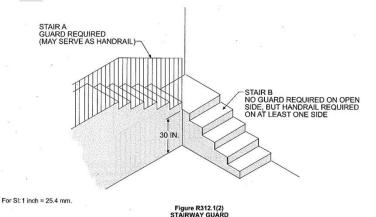




Guardrails

- · Required for open-sided walking surface, including stairs, greater than 30" above floor or grade below
- Minimum 36" in height (34" acceptable on open side of stairs)
- Guard acting as handrail 34"-38" above line connecting nosing of treads
- Openings must prevent passage of 4" sphere
 - 6" at triangular opening of riser, tread, & bottom rail
 - 4 3/8" at open sides of stairs





Illumination

- All interior and exterior stairways shall be provided with a means to illuminate the stairs, landings, and treads.
- Interior stairways
 - Artificial light source located in the immediate vicinity of each landing of the stairway
 - Capable of illuminating treads and landings not less than 1 foot candle (11 lux)
 - Wall switch required at each floor level, where stairway has six or more risers

Exterior stairways

- Artificial light source required in the immediate vicinity of the top landing of the stairway
- Artificial light source located in the immediate vicinity of the bottom landing if the exterior stairway provides access to a basement from the outside grade level
- Illumination is expected to be controlled from inside the dwelling unit