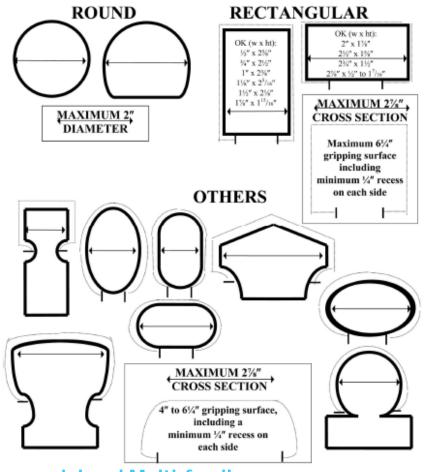
Residential Hand Rails

21.04 (3) (b) 5.

HANDRAIL SHAPES



Commercial and Multi-family

Commercial/Indust. Multi-Family

44" min Stair width: 36" min Tread width: 10" min 11" min Riser height: 7-3/4" max 4" min 7" max No open riser No open risers Handrail height: 34" min 38" max 34" min 38" max

1 1/2" wall clearance 1 1/2" wall clearance Headroom: 80" min 80" min 36" x width of 44" x width of Landings:

stairs stairs

Guardrail height: 36" min 42" min Spindle Spacing: block 4" ball block 4" ball For More Information:

Building Inspector 929-3765

929-3964 Fax

Website: www.nfdl.org Email: pfetters@nfdl.org

Mailing Address:

Village of North Fond du Lac **Building Inspector**

16 Garfield Street

Stairs and **Elevated Platforms**



Interior and Exterior

1 & 2 Family Dwellings

STAIR DETAILS SPS 321.04(2)

Width: 36" minimum
Riser height: 8" maximum
Tread depth: 9" minimum

All steps must be uniform within 3/8 max.

Headroom: 76" minimum
Landings: 36" x 36" minimum
Handrail height: 30" min. – 38" max.

2x4's and 2x6's are not permitted as handrails

Guardrail height: 36" minimum

Handrail Dimensions:round 2" max.

rectangle 2-7/8 (grip Max)

Spindle spacing: block a 4" ball

HANDRAILS AND GUARDRAILS SPS 321.04(3)

- Stair flights with more than 3 risers shall be provided with at least one handrail for the full length of the stair flight.
- Handrails or guardrails shall be provided on all open sides of stair flights consisting of more than 3 risers and on all open sides of areas that are elevated more than 24 inches above the floor or exterior grade.
- Handrails or guardrails shall be constructed to prevent the through-passage of a sphere with a diameter of 4 inches or larger.
- Handrails and guardrails shall be designed and constructed to withstand a 200 pound load applied in any direction.
- Handrails shall be located at least 30 inches, but no more than 38 inches above the nosing of the treads. Measurement shall be taken from the hard structural surface beneath any finish material to the top of the rail.

- Clearance between a handrail and the wall surface shall be at least 1½ inches.
- Handrails shall be continuous for the entire length of the stairs.

21.04(2)(d)3.&4. Planning for Stair Headroom

- The triangular area formed by the tread, riser and bottom rail shall have an opening size that prevents the throughpassage of a sphere with a diameter of 6 inches or larger.
- Stairways with open risers shall be constructed to prevent the through—passage of a sphere with a diameter of 4 inches or larger between any 2 adjacent treads.

