

Residential Hand Rails

21.04 (3) (b) 5. HANDRAIL SHAPES



Stairs and Elevated Platforms



Commercial and Multi-family

	Multi-Family	Commercial/Indust.
Stair width:	36" min	44" min
Tread width:	10" min	11" min
Riser height:	7-3/4" max	4" min 7" max
Handrail height:	No open riser	No open risers
Headroom:	34" min 38" max	34" min 38" max
Landings:	1 1/2" wall clearance	1 1/2" wall clearance
Guardrail height:	80" min	80" min
Spindle Spacing:	36" x width of stairs	44" x width of stairs
	36" min	42" min
	block 4" ball	block 4" ball

For More Information:

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Village of North Fond du Lac
 Building Inspector
 16 Garfield Street

The Village of



NORTH
 FOND DU LAC

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.

- The triangular area formed by the tread, riser and bottom rail shall have an opening size that prevents the through-passage 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.

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

