BUILDING | SERVICES



Doing it right!

STAIRS — House

ONTARIO BUILDING CODE

The Ontario Building Code requires that all stairs meet specific requirements related to the rise, run, and width. This guide does not address spiral stairs or tapered treads. Additional OBC requirements apply to these configurations.

<u>Steps</u>

Steps are required to be constructed with equal rise and run throughout each flight of stairs measured from the ground at the bottom of the stairs to the top of an intermediate landing or the top of the deck. The top step and bottom step are usually the most problematic due to grading changes.

Stairs are required to be a minimum 34 inches wide. A flight of stairs must be provided with a landing if the change in height exceeds 12 feet 1 inch. Each step within a flight of stairs is required to have a 1 inch nosing. Stringers must have $3 \frac{5}{8}$ between cut and bottom as per OBC.

The table below lists the minimum and maximum dimensions.

Stair Type	All Steps		Rectangular Treads	
	Rise (inches)		(Run)	
	Min.	Max.	Min.	Max.
Private*	4 ¹⁵ / ₁₆ "	7 7/8"	10 ¹ / ₁₆ "	14"
Public**	4 ¹⁵ / ₁₆ "	7 ¹ /16"	11"	No Limit
*Private Stair—interior stairs within and exterior stairs serving a house or individual dwell- ing unit, and exterior stairs serving a garage that serves a house or a single dwelling unit				

** Public Stair–all other stairs not considered to be service stairs or private stairs

Guards and Handrails

A guard is required on the stair where the stairs are higher than $23^{5}/_{8}$ inches. Guard pickets cannot be spaced more than $3^{15}/_{16}$ inches apart. Pickets are required to resist a force of 0.1Kn (22.5 lbf) applied in opposite direction the picket is installed. No horizontal members are installed to the guard between $5^{1}/_{2}$ inches and $35^{7}/_{8}$ inches that could facilitate climbing.

Interior stairs (including garage stairs) with 3 or more steps and exterior stairs that have 4 or more steps require a handrail. Hand- rails must be located at a height between $34 \ 1/_{16}$ inches and $42 \ 1/_8$ inches and must be graspable their entire length. On stairs serving a house, only one side of the stair is required to have a handrail.



BUILDING PLANNING BY-LAW SERVICES 10 Lisgar Ave., Tillsonburg, ON N4G 5A5 Tel: 519-842-9200 Fax: 519-688-0759 www.tillsonburg.ca

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