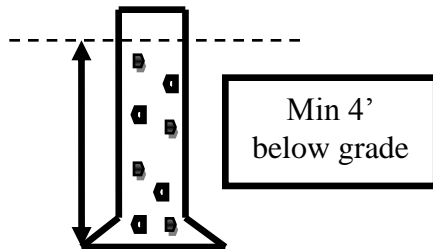


Construction Requirements For Exterior Decks

<u>Joist Span</u>	<u>Pier Size</u>			
	<u>Pier Spacing</u>			
	4'	6'	8'	10'
6'	10"	10"	10"	10"
8'	10"	10"	10"	12"
10'	10"	10"	12"	12"
12'	10"	10"	12"	12"

All sonotubes require footings as prescribed under the Ontario Building Code or the bottom of the sonotube is to be "belled" to provide a minimum dimension of 2" on all sides, i.e.: 10" sonotube requires a footprint of 12" at least 4" deep at the bottom. Footings to have a min 4' depth min 6" above grade



Beam Table

<u>Depth Of Lintels</u>	<u>Maximum Spans</u>
2 x 2 x 8	5' - 5"
2 x 2 x 10	6' - 8"
2 x 2 x 12	7' - 8"
3 x 2 x 8	7' - 3"
3 x 2 x 10	8'
3 x 2 x 12	10' - 3"

Minimum Post size
6x6

Floor Joist Span Table

<u>Joist size</u>	<u>Spacing</u>	<u>Span</u>
2 x 8	12" o/c	11' - 7"
	16" o/c	11' - 0"
2 x 10	12" o/c	13' - 8"
	16" o/c	13' - 0"
2 x 12	12" o/c	15' - 7"
	16" o/c	14' - 10"

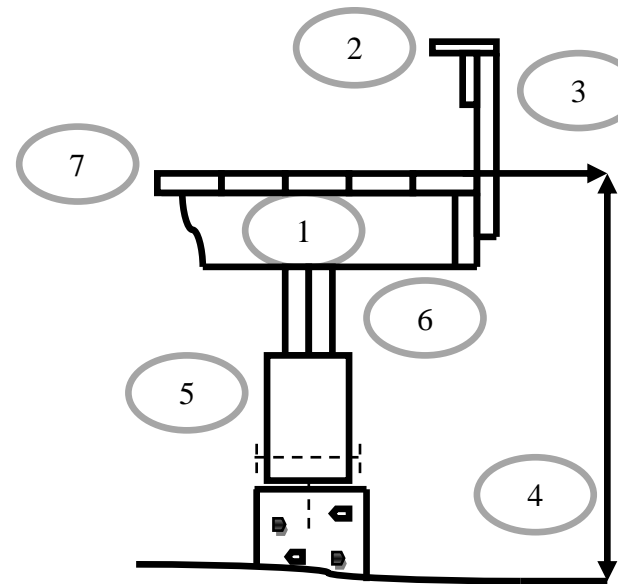
Cantilever

Maximum Distance]

400 mm for 2 x 8 Joists
600 mm for 2 x 10 and over
300 mm for beams

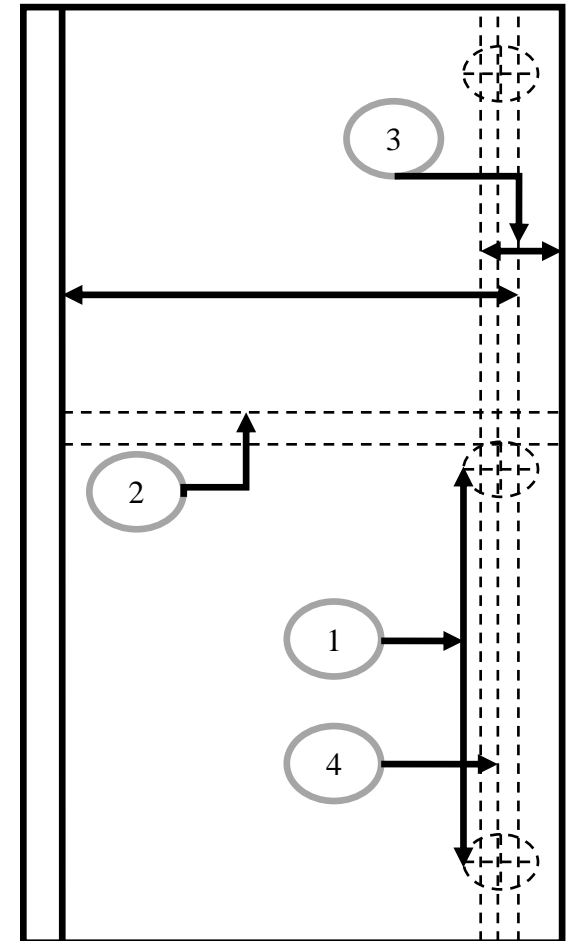
Lumber for guards and floor system to be

Species resistant to decay (cedar)
Preservative treated
Pressure treated



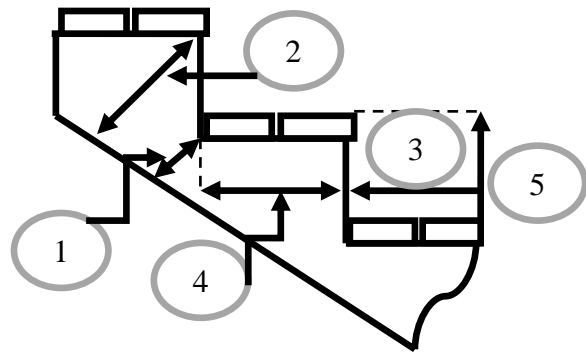
Plan Example

1. Pier spacing
2. Joist size & spacing
3. Joist cantilever
4. Beam size & span



Deck Example

1. 2 x 10 joists at 16" o/c with min 1^{1/2} bearing for all joists provide inverted joist hanger for last joists at both ends of the deck
2. Guard built to SB-7 or engineered
3. Spacing not more than 100 mm spacing of pickets
4. If the walking surface is over 1800 mm guards to be min 1070 mm high. If the walking surface is less than 1800 mm guards may be a min 900 mm high
5. 6 x 6 post attached to sonotube with metal shoe anchor min 4" into concrete min 1/2 diameter anchor
6. Maximum cantilever 600 mm
7. Max 16" o/c for 5/4 deck boards

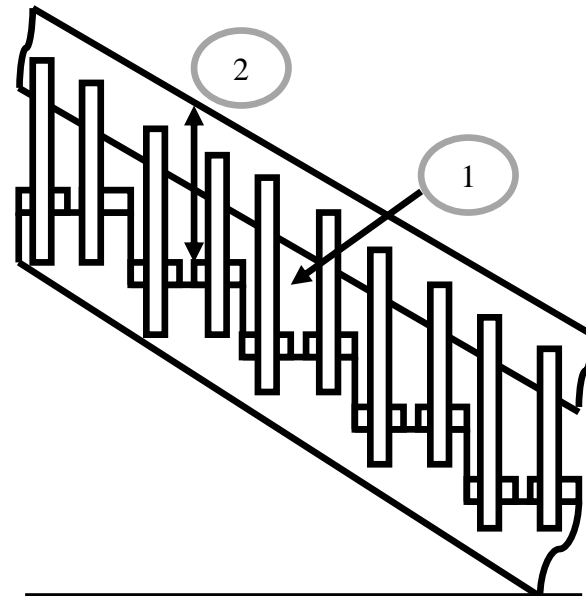


Stair Construction Example

1. minimum effective depth of 90 mm measured perpendicularly to the bottom of the stringer at the point of minimum cross-section,
2. And an over-all depth of not less than 235 mm
3. Tread depth max 355 mm min 235 mm
4. Run max 355 mm min 210 mm
5. Rise max 200 mm min 125 mm
6. Max 1200 mm between stringers
7. Stairs to be supported and secured at top and bottom
8. Stair stringers shall not be in direct contact with the ground unless pressure treated

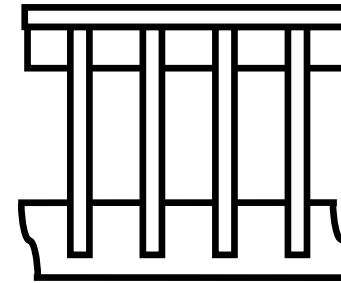
Risers - There is a tolerance of 5 mm between adjacent treads and landing, and 10 mm between the tallest and shortest treads in a flight.

Treads -There is a tolerance of 5 mm between adjacent treads, and 10 mm between the deepest and shallowest treads in a flight.



Handrail Example

1. Opening's in guards not more than 100 mm
2. Stairs over 600 mm to grade require a guard min 900 mm for stairs not more than 1800 mm from walking surface to grade and 1070 mm for stairs with a walking surface more than 1800 mm
3. Height of hand rails not less than 865 mm and not more than 965 mm
4. Only one handrail is required on exterior stairs having more than 3 risers
5. Handrails are be continuous throughout the length or the stair and graspable along the entire length with not less than 50 mm clearance from any surface behind it and project not more than 100 mm into the required width of the stair with supports at max 1.2 m



Guard Example & Information

All Guards must meet SB-7 or have a BMEC approval or be designed to Part 4 of the Ontario Building Code.

Please note that not all products have approval for use in Ontario.

The guard example shown is detail EC-4 from SB-7 a cantilevered picket system.

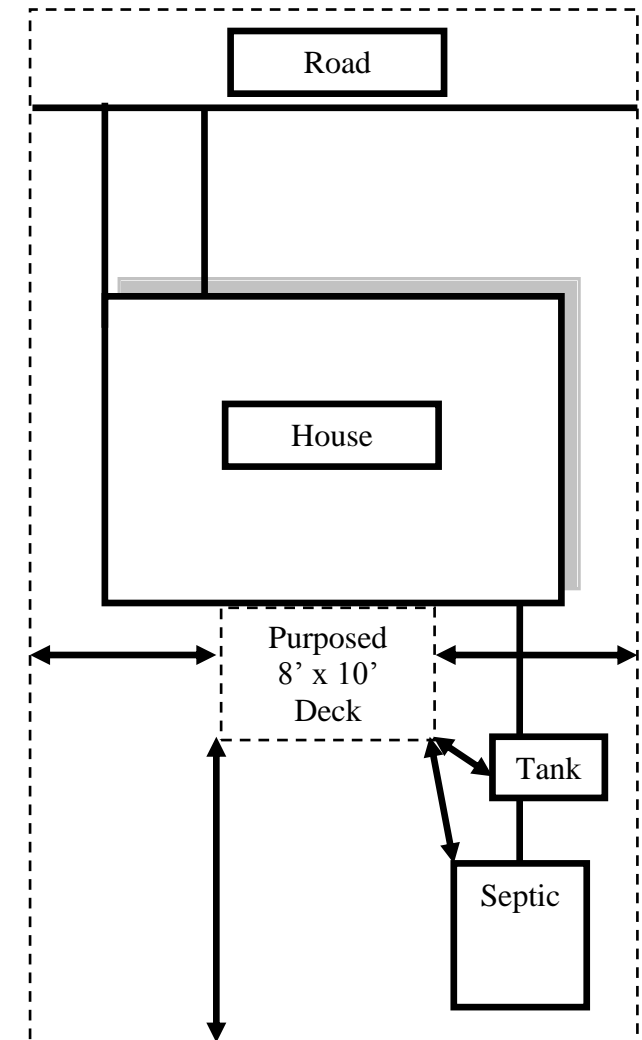
If Guards incorporate seating area, the distance from the seat will be the beginning point of the guard height

Guard height minimum requirements

Deck under 1800 mm	900 mm
Deck Over 1800 mm	1070 mm

Picket spacing, size & top & bottom rail

Max picket space	100 mm
Min Picket size	32 mm
Top/Bottom rail	2 x 4



Site Plan Example

- Location of house
- Proposed location of deck
- Distance from proposed deck to side lot lines rear lot line
- Minimum septic tank clearance to structure 1.5 m (4' 11 1/16") min septic distribution piping clearance from structure 5 m (16' 4 7/8")

(Septic clearance if applicable)