The information provided is to be considered general guidelines. Each project is different; please consult the Technical Services Department with any questions related to your project. All data listed is based on single-storey residential decks without roof structures, hot tubs, kid's pools or any other unusual loads, and includes pool decks.

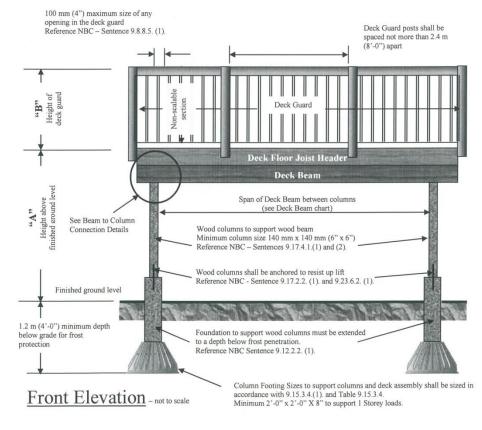
Frequently Asked Questions

How high does the railing (guard) around my deck have to be?		Can my deck railing (guard) have any horizontal parts	Is a Foundation required?	Can deck blocks be used to support the deck?	What is the required depth for the foundation?
"A" Height above finished ground level	"B" Height of deck railing/guard	incorporated in the design?	requireut	support the decin	(See Note 2)
Greater than or equal to 1.8 m (6'-0")	1070mm (3'-6")	Not Permitted between			1.2 m (4'-0") minimum from
Less than 1.8 m (6'-0")	900mm (3'-0")	140 mm (5 1/2") and 900 mm (3'-0")	Yes	No	finished grade
Greater than 600mm (24") and Less than or equal to 830mm (30")	500mm (5 °0)	above deck surface	No	Yes	Not Applicable
Less than or equal to 600 mm (2'-0")	Not Required	Not Required	(See Note #1)	(See Note #1)	(See Note #1)

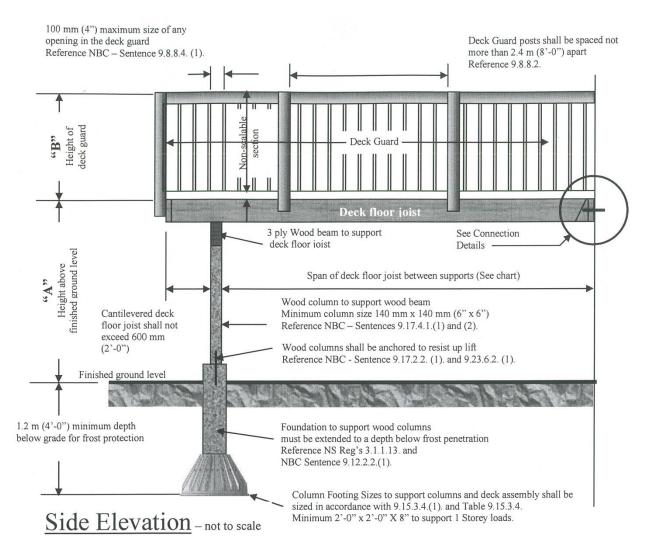
Note #1: A deck that is attached to a building will require a foundation that extends below frost level.

- A surface foundation (Deck Blocks) can <u>only</u> be used where:
- The deck is freestanding and not attached to another structure (house),
- The deck is less than 55m2 (600ft2),
- The deck does not support a roof or hot tub,
- The deck is not more than one storey, and
- The distance from the finished ground to the top of deck is not more than 830mm (30") at any point.

Note #2: Deck piers closer than 5' to a foundation wall are required to extend to the footing elevation of the foundation.



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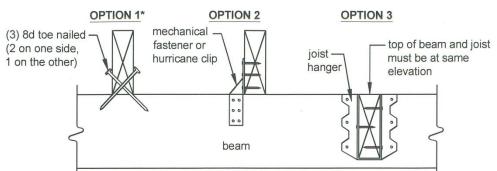
What Size "Deck Floor Joist" do I need to have?

	Spacing of Joists (on Centre)	Maximum Span between supports	Spacing of Joists (on Centre)	Maximum Span between supports	Spacing of Joists (on Centre)	Maximum Span between supports
2" x 6"	12"	9'-4"	16"	8'-6"	24"	7'-5"
(38 x 140 mm)	(300 mm)	(2.86 m)	(400 mm)	(2.60 m)	(600 mm)	(2.27 m)
2" x 8"	12"	12'-4"	16"	11'-2"	24"	9'-9"
(38 mm x 184	(300 mm)	(3.76 m)	(400 mm)	(3.42 m)	(600 mm)	(2.99 m)
mm)						
2" x 10"	12"	15'-9"	16"	14'-4"	24"	12'-6"
(38 mm x 235	(300 mm)	(4.81 m)	(400 mm)	(4.37 m)	(600 mm)	(3.82 m)
mm)						
2" x 12"	12"	19'-2"	16"	17'-5"	24"	15'-2"
(38 mm x 286	(300 mm)	(5.85 m)	(400 mm)	(5.31 m)	(600 mm)	(4.64 m)
mm)						

The information in this table is derived from the National Building Code 2010, Maximum Spans for Roof Joists - Table A-5, Lumber Type: S-P-F (Spruce-Pine-Fir), Lumber Grade : No. 1 & No. 2 with a Specified Snow Load of 2.5 kPa.

The joist span shown in the tables are based on wood decking nailed to the top side of the joists, with a row of wood blocking at the midpoint of the span of the wood joists and the lumber is pressure treated wood with a lumber grade stamp equivalent to No.1 or No. 2. Refer to Sentence 9.4.2.3. – "Balconies, decks and other accessible exterior platforms intended for occupancy and subject to snow loads shall be designed to carry the specified roof snow load or 1.9kPa, whichever is greater, where the platform, or each segregated area of the platform, serves a single family dwelling unit." (Summerside 2.3kPa-uses 2.5 kPa data)

Joist-to-Beam Detail (9.23.9.2/9.23.9.3)

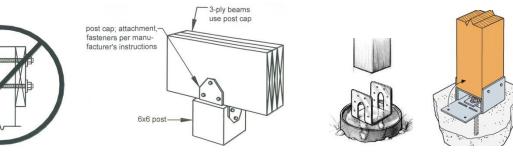


*Option 1 is prohibited on free-standing decks

What Size "Deck Beam" do I need to have?

Wood Beam	Supported Joist length of Wood Deck Joists "Supported Joist" length means ½ the sum of the joist spans on both side of the beam"						
Size	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"		
5126	(2.4 m)	(3.0 m)	(3.6 m)	(4.2 m)	(4.8 m)		
	Maximum Span of Wood Beam between Columns						
3 – 2" x 8"	10'	9'-4"	8'-7"	8'	7'-6"		
(3 - 38 mm x 184 mm)	(3.07 m)	(2.85 m)	(2.63 m)	(2.44 m)	(2.28 m)		
4 – 2" x 8"	10'-2"	10'	9'-8"	9'-2"	8'-7"		
(4 - 38 mm x 184 mm)	(3.38 m)	(3.14 m)	(2.95 m)	(2.8 m)	(2.63 m)		
3 – 2" x 10"	12'-10"	11'-6"	10'-6"	9'-9"	9'-2"		
(3 - 38 mm x 235 mm)	(3.92 m)	(3.52 m)	(3.22 m)	(2.98 m)	(2.79 m)		
4 – 2" x 10"	14'-2"	13'-2"	12'-2"	11'-4"	10'-7"		
(4 - 38 mm x 235 mm)	(4.32 m)	(4.01 m)	(3.71 m)	(3.44 m)	(3.22 m)		
3 – 2" x 12"	15'	13'-4"	12'-4"	11'-4"	10'-6"		
(3-38 mm x 286 mm)	(4.57 m)	(4.09 m)	(3.73 m)	(3.46 m)	(3.23 m)		
4 – 2" x 12"	17'-4"	15'-6"	14'-2"	13'	12'-3"		
(4-38 mm x 286 mm)	(5.25 m)	(4.72 m)	(4.31 m)	(3.99 m)	(3.73 m)		

The information in this table is derived from the National Building Code 2010, "Maximum Spans for Built Up Wood Beams Supporting not more than One Floor – Table A-8" and Lumber Type: S-P-F (Spruce-Pine-Fir), Lumber Grade : No.1 & No.2



Prohibited Post-to-Beam Connection

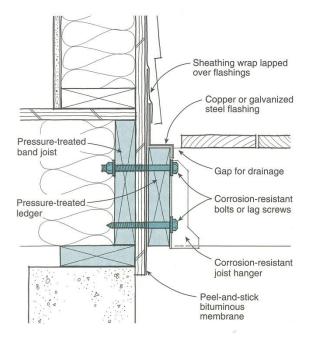
Example of Post-to-Beam Connection

Examples of Post Base Anchoring

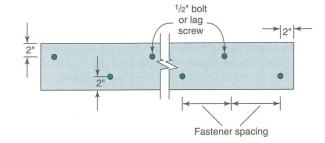
Bearing for Beams: Beams shall have even and level bearing (9.23.8.1)

Anchorage of Columns and Posts: Exterior columns and posts shall be anchored to resist uplift and lateral movement-all deck above 600mm (24") (9.23.6.2)

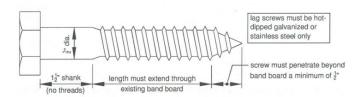
Ledger Boards



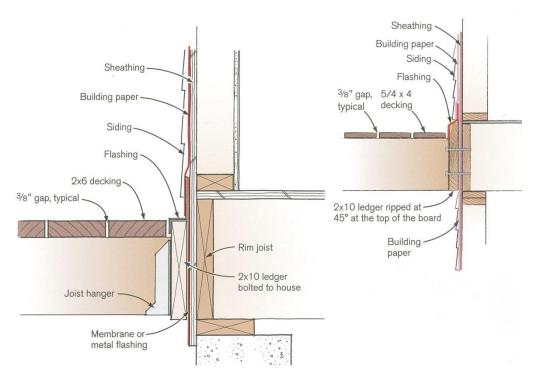
Ledger board is to be equal to or one size larger than the joists. If aluminum flashings are used, a barrier between the flashing and pressure treated wood is required-the materials are not compatable. Bolts or lag screws are to be galvanized or stainless steel and washers must be used, do not countersink the fastener.



To prevent splitting, fasteners in the deck ledger should be held back 2 inches from edges and staggered, as shown.

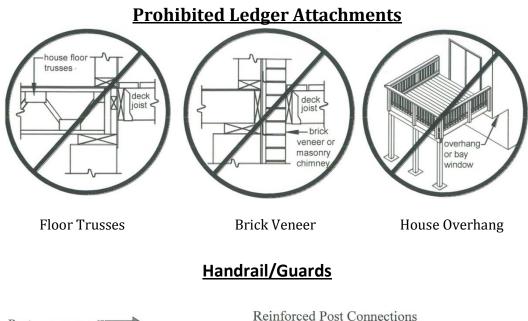


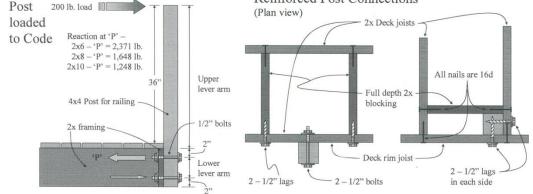
Though deck failures are rare, ledger connections are typically at fault when they occur. Through-bolts make the strongest connection, but adequately sized lag screws can also work. With either, it is critical to flash the ledger area and to only use metal components that are compatible with pressure-treated wood.



Debris-Free Ledgers

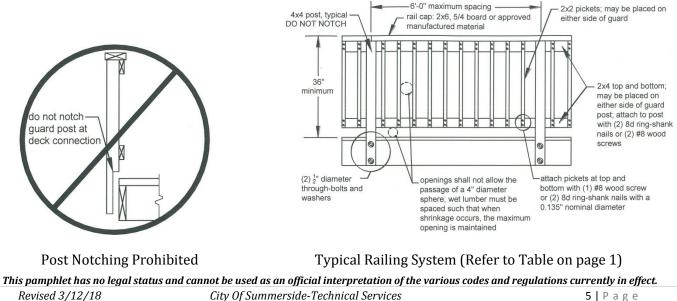
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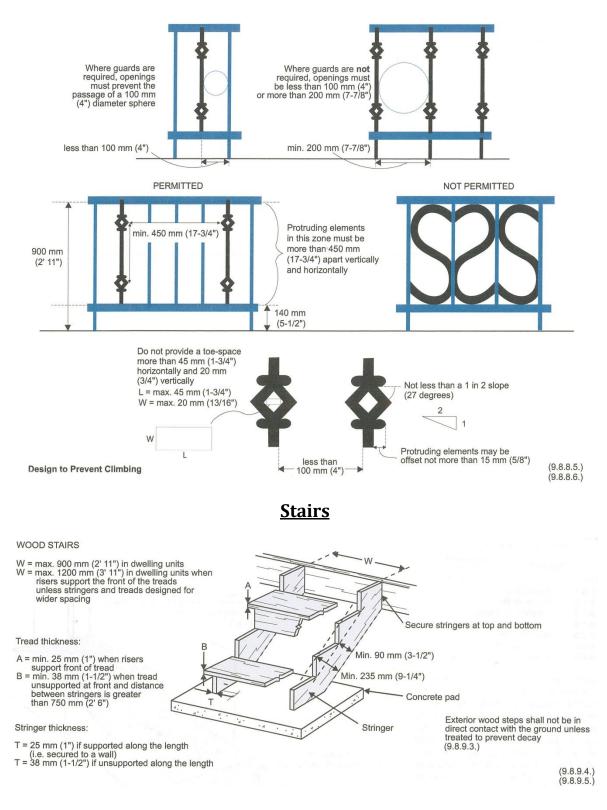
Loads on guards (9.8.8.2)

Bolts or lag screws are to be galvanized or stainless steel and washers must be used, do not countersink the fastener.



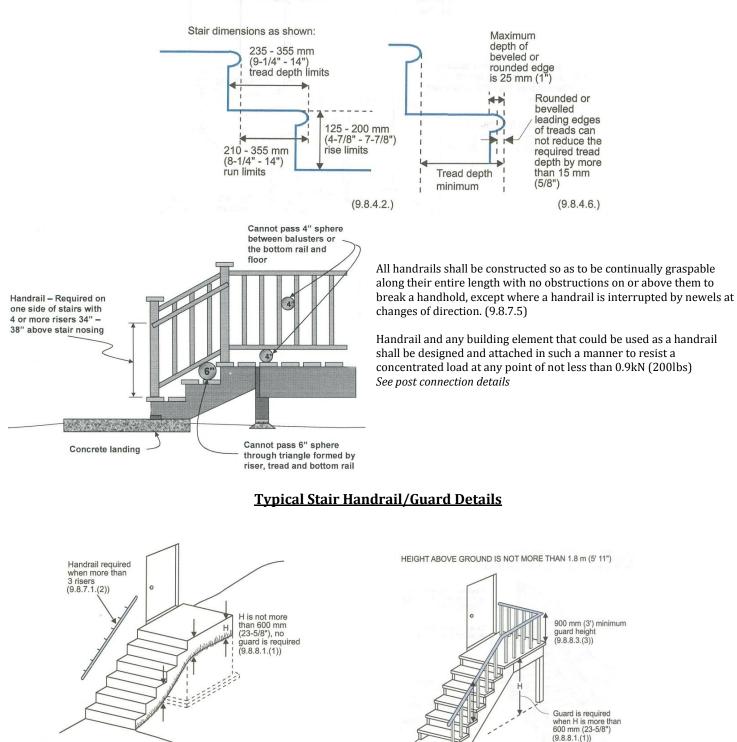
Lattice panels are not allowed to be used as a guard panel

Manufactured guard-railing systems are permitted as long as they meet the requirements of Section 9.8.8.



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INTERIOR AND EXTERIOR STAIRS



Every exterior flight of steps and ramps, landing, porch, balcony, mezzanine, gallery, and raised walkway to which access is provided for other than maintenance purposes shall be protected by guards on all open sides where there is a difference in elevation of more than 600mm (24") between the walking surface and the adjacent surface. (9.8.8.1)

Guards not Required