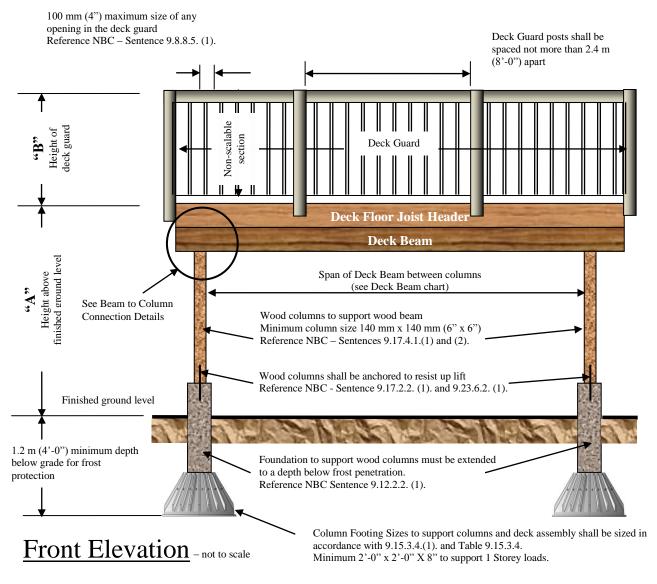
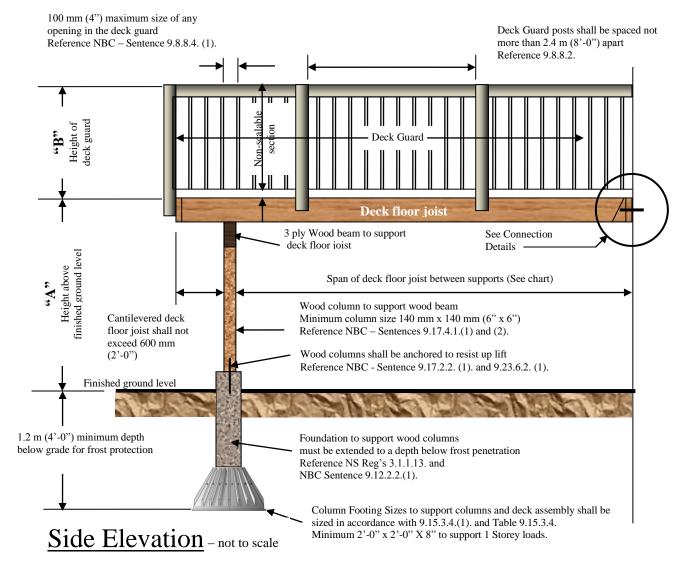
Typical Residential Deck Construction Details Frequently Asked Questions

How high does the railing around my deck have to be?		Can my deck railing have any horizontal parts	Is a	Can a "surface foundation" be	What is the required depth
"A" Height above finished ground level	"B" Height of deck guard	incorporated in the design?	Foundation required?	used to support the deck? (see note #1)	for the foundation?
Greater than 1.8 m (6'-0")	1070 mm (3'-6")	Not Permitted between 140 mm (5 1/2") and 900 mm (3'-0") above deck surface	0 mm (5 1/2") and 900 mm (3'-0") Yes		1.2 m (4'-0") minimum below ground level
Less than 1.8 m (6'-0")	900 mm (3'-0")	Not Permitted between 140 mm (5 1/2") and 900 mm (3'-0") above deck surface	Yes	No	1.2 m (4'-0") minimum below ground level
Less than 600 mm (2'-0")	Not applicable (see note #1)	Not applicable (see note #1)	No (see note #1)	Yes (see note #1)	Not Applicable (see note #1)

Note #1: A deck that is connected to or attached to a dwelling or building will require a foundation extended below frost level, consult your local building official for clarification of your design prior to construction.





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

Lumber Size	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"	10'	16"	9'	24"	7'-9"
(38 x 140 mm)	(300 mm)	(3.08 m)	(400 mm)	(2.80 m)	(600 mm)	(2.37 m)
2" x 8"	12"	13'-4"	16"	12'	24"	9'-6"
(38 mm x 184 mm)	(300 mm)	(4.05 m)	(400 mm)	(3.68 m)	(600 mm)	(2.89 m)
2" x 10"	12"	17'	16"	15'-4"	24"	11'-7"
(38 mm x 235 mm)	(300 mm)	(5.18 m)	(400 mm)	(4.70 m)	(600 mm)	(3.53 m)
2" x 12"	12"	20'-8"	16"	18'-10"	24"	13'-6"
(38 mm x 286 mm)	(300 mm)	(6.30 m)	(400 mm)	(5.73 m)	(600 mm)	(4.10 m)

The information in this table is derived from the National Building Code 2005, Maximum Spans for Roof Joists - Table A-4, Lumber Type: S-P-F (Spruce-Pine-Fir), Lumber Grade: No. 2 with a Specified Snow Load of 2.0 kPa – refer to the Climatic Data Table in the Nova Scotia Regulations for Snow Loading in your area.

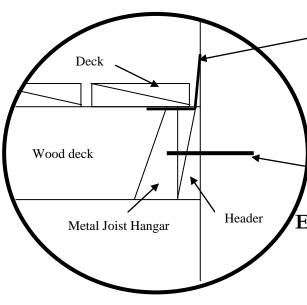
The joist span shown in the tables are based on wood decking nailed to the top side of the joists, with a row of wood blocking at the mid point of the span of the wood joists and the lumber is pressure treated wood with a lumber grade stamp equivalent to No. 2.

Refer to Sentence 9.4.2.3. - Platforms Subject to Snow and Occupancy Loads, loading shall not be less than 1.9 kPa or the Ground Snow Load based on the Climatic Data for your area or region, whichever is greater.

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

Wood	Supported Joist length of Wood Deck Joists "Supported Joist" length means ½ the sum of the joist spans on both side of the beam"						
Beam	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"		
Size	(2.4 m)	(3.0 m)	(3.6 m)	(4.2 m)	(4.8 m)		
Size	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 2005, "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. 2



Where exterior cladding consists of vinyl siding (or equivalent), measures must be taken to ensure flashing is installed to address rain penetration into the existing building at this connection, consult your local building official for permitted practices.

Recommended practice:

1/2" diameter or larger "through bolt" with nuts and washers spaced at not more than 18" o.c., consult with your local building official prior to installing.

Example of a Connection to a Dwelling