

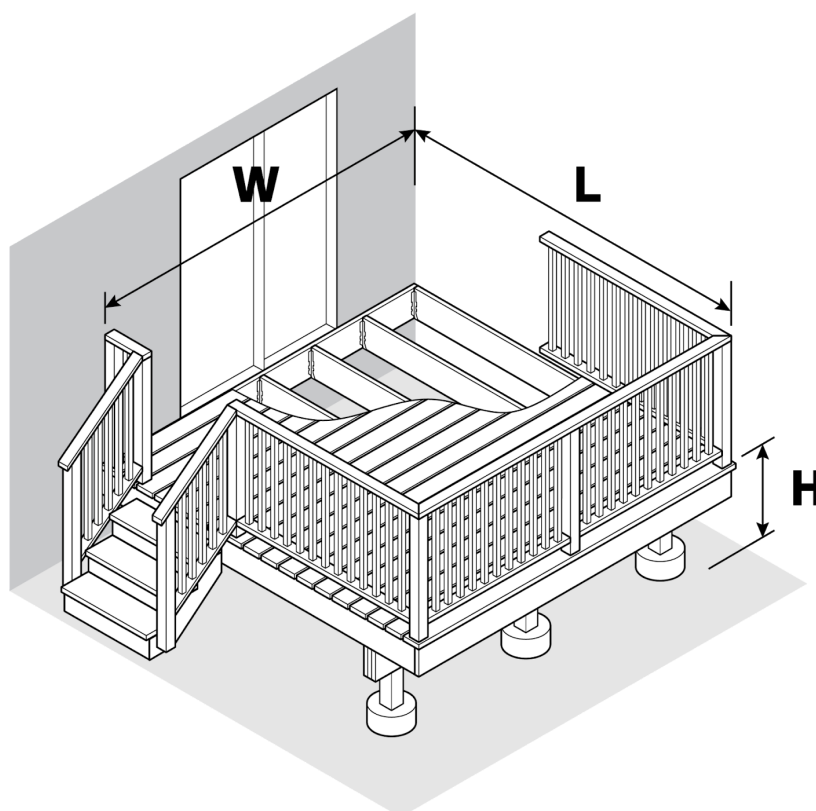
UNCOVERED DECK DESIGN

Edmonton

Visit edmonton.ca/deckpermit for application rules and requirements.

Read the [Deck Design Guide](#) for more information.

Project Address:		
DIMENSIONS Specify units of measurement (feet/metres).		
Length (L):		
Width (W):		
Height (H): (from lowest ground)		
Is the deck over 5'-11" (1.8 m) high?	No	Yes (see engineering requirements - page 3)
CONSTRUCTION DETAILS Select one in each row.		
Number of levels or tiers	Single platform and single beam	Multi-level deck or multiple beams
Deck shape	Square or rectangular	Irregular
For multi-level, multiple beam and/or irregular shape decks, or decks of unconventional material, provide construction drawings for review. Read the Deck Design Guide for more information.		



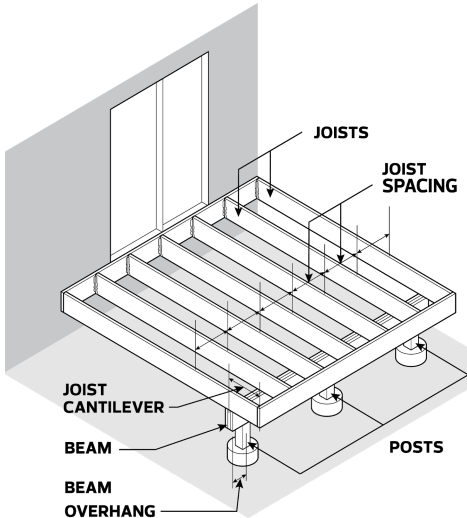
Deck Design | 02.21

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Content subject to periodic update. Ensure use of the most recent version. 8 June 2021

JOISTS¹ Select **one** joist size and spacing based on deck length to determine maximum allowable joist span and cantilever.

	MAXIMUM JOIST SPAN				
	Joist Size	On-Centre ² JOIST SPACING			
		8"	12"	16"	24"
	2" x 4"	7'-4"	6'-5"	5'-10"	5'-1"
	2" x 6"	11'-6"	10'-0"	9'-1"	8'-0"
	2" x 8"	14'-10"	13'-0"	11'-5"	9'-4"
	2" x 10"		16'-2"	14'-0"	11'-5"
	2" x 12"			16'-3"	13'-3"

BEAM¹ Select **one** beam, based on desired post spacing option for the deck length.

Beam	Maximum Deck Length (L)	On-Centre ² POST SPACING up to:		Maximum Deck Length (L)	On-Centre ² POST SPACING up to:
1-ply 2" x 6"	5'-0"	6'-0"	or	13'-0"	4'-0"
2-ply 2" x 6"	16'-0"	6'-0"	or	18'-0"	5'-0"
2-ply 2" x 8"	16'-0"	7'-0"	or	18'-0"	6'-0"
3-ply 2" x 8"	16'-0"	10'-0"	or	18'-0"	9'-0"
2-ply 2" x 10"	16'-0"	9'-0"	or	18'-0"	8'-0"
3-ply 2" x 10"	16'-0"	12'-0"	or	18'-0"	12'-0"
2-ply 2" x 12"	16'-0"	10'-0"	or	18'-0"	9'-0"
3-ply 2" x 12"	16'-0"	14'-0"	or	18'-0"	13'-0"

BEAM OVERHANG From the centre of the supporting post at the beam end, a 2- or 3-ply beam may extend up to 9" in the case of a 6" beam; 12" for a 8" beam; 15" for a 10" beam; 18" for a 12" beam.

POSTS Select **one** post size based on beam width and deck height.

Minimum 4" x 4" posts for 2-ply beams for decks up to and including **5'-11" (1.8 m) high**

Minimum 6" x 6" posts for any 3-ply beam and decks over **5'-11" (1.8 m) high**

¹ S-P-F #1 & #2 Factory Treated Lumber

² "On-Centre", measured from centre to centre of support

COMPLETE ONLY **ONE** OF THE FOLLOWING TABLES

Read the [Deck Design Guide](#) for more information.

DECK UP TO 1.8 m (5'-11") HIGH		
By checking "yes" you acknowledge the deck will be constructed to the following requirements.		
FOUNDATION (Select one)	Post and pier block: supported on pads and on well-drained compacted soil	Yes
	OR Piles: concrete or metal (screw piles)	Yes
STAIRS (Select one)	Stairs have uniform: Rise: 5" - 7 $\frac{7}{8}$ " Run: 10" - 14" Nosing: 0" - 1"	Yes No Stairs
GUARDS AND HANDRAILS (Select all)	Guard (railing) height minimum 0.9 m (36")	Yes
	No gaps greater than 100 mm (4") between spindles or under guard	Yes
	Handrails are smooth, graspable, and mounted 34" - 42" above stairs, measured vertically through stair nosing	Yes
DECKING (Select one)	Lumber: \leq 5/4" wood decking on joists \leq 16" o.c. OR 1 $\frac{1}{2}$ " wood decking on joist \leq 24" o.c.	Yes
	Manufactured decking OR decking membrane: submit CCMC OR product specification indicating NBC2019(AE) or NBC2015 compliance	Yes

DECK OVER 1.8 m (5'-11") HIGH and UP TO 3.6 m (11'-10") HIGH		
By checking "yes" you acknowledge the deck will be constructed to the following requirements.		
FOUNDATION	I have provided site-specific engineered foundation design showing post/pile specifications, locations, and pile-to-post connection. Note: Generic pile torque sheets do not meet the criteria for site-specific foundation engineering.	Yes
STAIRS (Select one)	Steps have uniform: Rise: 5" - 7 $\frac{7}{8}$ " Run: 10" - 14" Nosing: 0" - 1"	Yes No stairs
GUARDS AND HANDRAILS (Select all)	Guard (railing) height minimum 1.07 m (42")	Yes
	No gaps greater than 100 mm (4") between spindles or under guard	Yes
	Handrails are smooth, graspable, and mounted 34"-42" above stairs, measured vertically through nosing	Yes
	Guard (railing) is wood OR submitting CCMC evaluation or engineering for manufactured metal, vinyl or glass products obtained from guard supplier	Yes
DECKING (Select one)	Lumber: \leq 5/4" wood decking on joists \leq 16" o.c. OR 1 $\frac{1}{2}$ " wood decking on joist \leq 24" o.c.	Yes
	Manufactured decking OR decking membrane: submit CCMC evaluation OR product specification indicating NBC2019(AE) or NBC2015 compliance	Yes

DECK OVER 3.6 m (11'-10") HIGH		
By checking "yes" you acknowledge the deck will be constructed to the following requirements.		
Engineering	I have provided site-specific engineered drawings for deck foundation, columns, beam(s), joists, guards, stringers, bracing and all connections, including deck ledger to house frame; joists to ledger; joists to beam; beam to posts; posts to foundation.	Yes