

WOOD DECK SPECIFICATIONS

Please attach a sketch of the post/beam layout for deck

DECK DIMENSIONS _____

FOOTING SIZE AND DEPTH _____

SIZE OF POSTS _____ SPACING _____ HEIGHT OFF GROUND _____

SIZE OF BEAMS _____

JOIST SIZE _____ AND _____ INCHES ON CENTER

JOIST SPAN _____ SIZE OF DECKING _____

SIZE OF DECKING _____

METHOD OF ATTACHMENT TO HOUSE _____

GUARDRAIL HEIGHT _____ WIDTH BETWEEN GUARDS _____

WIDTH OF STAIRWAY TREADS _____

HEIGHT OF STAIRWAY RISERS _____

NOTE

POSTS SHALL BE AT LEAST 30" BELOW GRADE

A 36" GUARD SHALL BE INSTALLED AT ALL PARTS OF DECK 30" ABOVE GRADE; SPACING SHALL BE **LESS THAN 4"**

STAIRS SHALL HAVE HANDRAILS AND GUARDS. TREADS SHALL BE A MINIMUM OF 9" AND RISERS A MAXIMUM OF 8 ¼" AND MUST BE ENCLOSED TO A WIDTH NO GREATER THAN 4"

PLEASE BE AWARE THAT ALL TREATED LUMBER IS A NEW PRODUCT AND REQUIRES SPECIFIC HARDWARE FOR **ACQ LUMBER**

SCREWS ARE NOT APPROVED FOR JOIST HANGERS

BEAMS SHALL BE BOLTED TO POSTS WITH ½" CARRIAGE BOLTS. PLEASE SEE DIAGRAM

APPLICANT _____ DATE _____

Span Table for Deck Lumber

Maximum Joist Span Between Support: Maximum joist span between supports depends on size of the joists and the spacing between the joists. For examples, a deck with 2 x 8 joists spaced 16" apart requires supports no more than 12" to 10" apart. On a cantilevered deck, the joists may extend past the beam by a distance equal to one-third the total length of the joists.

Joist Size	Joist Spacing (on center)		
	12"	16"	24"
2 x 6	11' - 7"	9' - 9"	7' - 11"
2 x 8	15' - 0"	12' - 10"	10' - 6"
2 x 10	19' - 6"	16' - 5"	13' - 4"

Maximum Beam Span Between Posts: Maximum beam span depends on the size of the beams and their spacing. For example, a deck with a 4 x 8 beam and joists that span 12 feet should have posts that are no more than 7 feet apart.

Beam Size	Joist Span			
	6'	8'	10'	12'
2 - 2 x 6	8'	7'	6'	5'
2 - 2 x 8	10'	9'	8'	7'
2 - 2 x 10	12'	11'	10'	9'
2 - 2 x 12	14'	13'	12'	11'

Recommended Decking Span Between Joists: Decking boards can be made from a variety of lumber, sizes. For a basic deck use 2 x 4 or 2 x 6 lumber with joists spaced 16" apart.

Decking Boards	Recommended Span,
1 x 4 or 1 x 6, laid straight	16"
1 x 4 or 1 x 6, laid diagonal	12"
2 x 4 or 2 x 6, laid straight	16"
2 x 4 or 2 x 6, laid diagonal	12"
2 x 4, laid on edge	24"

Recommended Post Size: Choose post size by finding the load area for the deck. To find the load area, multiply the distance between beams by the distance between posts. For example, on a deck that has one beam spaced 10 feet from the ledger, with posts spaced 7 feet apart, the load area is 70. If this deck is less than 6 feet high, the recommended post size is 4 x 4.

Deck Height	Load Area				
	Multiply distance between beams (feet) times the distance between posts (feet)				
	48	72	96	120	144
Up to 6 ft.	4 x 4	4 x 4	6 x 6	6 x 6	6 x 6
More than 6 ft.	6 x 6	6 x 6	6 x 6	6 x 6	6 x 6

Minimum Stair Stringer Sizes: Size of stair stringers depends on the span of the stairway. For example, if the bottom of the stairway lies 7 feet from the deck, build the stringers from 2 x 12s. Stringers should be spaced no more than 36" apart. Use of a center stringer is recommended for stairways with more than three steps.

Span of Stairway	Stringer Size
Up to 6	2 x 10
More than 6 ft	2 x 12

Recommended Railing Sizes: Size of posts, rails, and caps depends on the spacing of the railing posts. For example, if railing posts are spaced 6 feet apart, use 4 x 4 posts and 2 x 6 rails and caps.

Space Between Railing Posts	Post Size	Cap Size	Rail Size
2 ft. to 3 ft.	2 x 4	2 x 4	2 x 4
3 ft. to 4 ft.	4 x 4	2 x 4	2 x 4
4 ft. to 6 ft.	4 x 4	2 x 6	2 x 6