



BUILDING INSPECTIONS
100 E WASHINGTON
KEARNEY, MO 64060
PHONE: 816-903-4736
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City of Kearney, Missouri
DECK PERMIT

Permit # _____

Date of Application ___ / ___ / _____

PROPERTY INFORMATION

Street Address	Subdivision or Development Name	Tract or Lot Number
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OWNER INFORMATION

First Name	Last Name or Business Name	Phone#	Fax#
Street Address	City	State	Zip

CONTRACTOR INFORMATION

Business Name & Contact Person	Kearney Occupation License Number	Phone#	Fax#
Street Address	City	State	Zip

Valuation of the Proposed Work:	\$	Deck Square Feet:	
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OTHER REQUIRED INFORMATION (please include on submitted plan drawings)

Deck Dimensions (L X W) & Number of Square Feet; Height Above Grade; Header Sizes and Spans; Floor Joist Size and Spacing (see Span Tables); Decking Size and Material; Stair Rise and Run; Pier Sizes (see Charts B, D and E); Post Sizes (See Chart A); Ledger Fastener Size and Spacing (See Chart C); Site Plan showing distance to property lines; and identify if any portion of deck attaches to a cantilever on dwelling.

The attached charts and tables are for your reference in designing your deck. The applicant is responsible for ensuring that the materials purchased and used for construction meet the minimum design standards for the type of material and the size and spacing requirements as identified on the permit, as issued.

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the code official or the code official's authorized representative shall have the authority to enter areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT

PERMIT OFFICE WILL COMPLETE FORM BELOW THIS LINE

FEES PAID PERMIT FEE (\$0.20/sf): _____ DATE PAID: _____	PERMISSION IS HEREBY GRANTED TO PERFORM THE WORK INCLUDED IN THIS APPLICATION. THIS PERMIT SHALL NOT BE CONSTRUED TO PERMIT ANY VIOLATION OF APPLICABLE LAWS, REGULATIONS, ORDINANCES, OR CODES. THIS PERMIT EXPIRES IN 180 DAYS FROM THE DATE BELOW.		
	BUILDING INSPECTOR: _____		DATE: _____
	PERMIT NUMBER	DATE	PERMIT FEE

GENERAL REQUIREMENTS FOR RESIDENTIAL DECKS

A permit is required for the construction of a residential deck. Below is a list of guidelines to follow:

Check into the proposed location of the deck. Make sure you know where any easements are and the exact locations of your property lines. Decks must meet applicable side and rear yard setbacks, including 7.5' side yard and the lesser of 30' or 30% the depth of the lot for single-family residences.

Footings and piers shall extend thirty-six inches (36") below grade and bear on undisturbed soil and must be inspected prior to placing concrete. The diameter of the footing shall be calculated using Chart A.

Guards shall be provided for decks, balconies and porches, which are more than 30" above grade. Guards must be not less than 36" above walking surface. Intermediate rails shall be placed so that a 4" ball cannot pass through. (R312.1, R312.2)

Guardrails shall extend a minimum of thirty-six inches (36") above the walking surface. Decks less than 30" above the ground are not required to have guardrails.

Stair risers shall not exceed 7 ³/₄", runs shall be no less than 10" (excluding nosing).

Handrails are required on at least one side of stairs and all open sides. The top of the handrail shall be 34"-38" measured vertically from the nose of the tread.

Guardrails and stair railings shall have intermediate rails or an ornamental pattern so that a 4" sphere cannot pass through.

Structural requirements for deck are based upon loads of 40-lbs/sq foot. The following spans are for floor joists.

MAXIMUM SPANS FROM TABLES R502.3.1(1), R502.3.1(2)

<u>PRESSURE TREATED LUMBER</u>	<u>#2 – 24" O.C.</u>	<u>#2 – 16" O.C.</u>
2 X 6	8'-6"	9'-9"
2 X 8	11'	12'-10"
2 X 10	13'-1"	16'-1"

Chart A

Maximum post heights for 40 lb/ft² deck design.

Species	Post Size	40 lb/ft ² live load – 10 lb/ft ² dead load Tributary load area to post (ft ²)													
		36	48	60	72	84	96	108	120	132	144	156	168	180	192
Southern Pine	4X4	10	10'	10'	9'	9'	8'	8'	7'	7'	6'	6'	6'	6'	5'
	4X6	14'	14'	13'	12'	11'	10'	10'	9'	9'	8'	8'	8'	7'	7'
	6X6#1	17'	17'	17'	17'	17'	17'	17'	17'	17'	17'	17'	17'	16'	16'
	6X6#2	17'	17'	17'	17'	17'	17'	17'	17'	16'	16'	15'	14'	13'	13'
Redwood or Western Red Cedar	4X4	10'	10'	9'	8'	7'	7'	6'	6'	5'	4'				
	4X6	14'	13'	12'	11'	10'	9'	8'	8'	7'	7'	7'	6'	6'	5'
	6X6#1	17'	17'	17'	17'	17'	17'	17'	17'	16'	15'	15'	14'	14'	13'
	6X6#2	17'	17'	17'	17'	17'	16'	13'	7'						

Chart B

Required size and spacing of corrosion resistant lag screws for attaching deck ledger to house for a given joist span.

On-center spacing of lag screws (inches)					
Lag size	Joist span (feet)				
½" dia. Lag	0-5 ft	6-7 ft	8-10 ft	11-14 ft	15-18 ft
	32" o.c.	24" o.c.	16" o.c.	12" o.c.	8" o.c.
Equivalent spacing joists @ 16" o.c.	Every other joist space	Two every third joist space	Each joist space	Each joist space with two every other space	Two in each joist space
3/8" dia. Lag	0-4 ft	5-6 ft	7-8 ft	9-12 ft	13-18 ft
	24" o.c.	16" o.c.	12" o.c.	8" o.c.	6" o.c.
Equivalent spacing joists @ 16" o.c.	Two every third joist space	Each joist space	Each joist space with two every other space	Two in each joist space	Two each joist space with three every other space

Chart C

Tributary load area for posts

