

Township of Woodbridge

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Woodbridge-Ten Towns, One Community

DECK CONSTRUCTION GUIDELINES

1. SURVEY OF PROPERTY SHOWING PROPOSED DECK AND ALL STRUCTURES ON PROPERTY THAT MAY HAVE BEEN INSTALLED SINCE SURVEY WAS MADE.
2. UTILITY REFERENCE NUMBER FOR DIGGING; CALL 1-800-272-1000.
3. SHOW DECK SIZE: LENGTH, WIDTH AND HEIGHT ABOVE GRADE.
4. PROVIDE FOOTING LAYOUT FOR DECK:
 - a. Minimum 12" diameter x 36" depth below grade and show distances between footings; maximum 8'.
 - b. Column must be connected to the footing with an approved post anchor and bolt.
5. COLUMN SIZE AND SPACING (4 X 4) (6 X 6) ETC.
 - a. Columns cannot be encased in concrete.
 - b. Any deck more than 36" above grade must provide 45 degree lateral bracing from columns to girder.
6. SHOW SIZE, LENGTH AND DIRECTION OF MAIN GIRDER. ANY SPLICES MUST OCCUR OVER COLUMNS.
 - a. The support columns must be connected to the girder with an approved post cap.
7. SHOW LEDGER ATTACHMENT TO HOUSE (IF ANY) 16" O.C. LAG SCREWED TO EXISTING HOUSE.
 - a. Lag bolts shall be ½ " diameter bolt.
 - b. Ledgers shall be flashed to code.
 - c. Ledgers shall not be attached to stone or brick veneer.
 - d. Ledgers shall not be attached to an existing cantilever.
 - e. Decks shall have a minimum of two hold-down tension devices in accordance with figure 502.2.2.3. of the 2009 IRC.
 - f. If attaching to foundation wall, must use ½ " bolt through to inside and support with plate, washer and nut.

8. SHOW SIZE, LENGTH AND ATTACHMENT OF FLOOR JOIST.

- a. Joist hangers on all unsupported joists or girders.
- b. Maximum freespan between ledger and main girder for .40 c.c.a. treated lumber. 60 lb live load as follows:

2 x 6" -	16" o.c. -	6 ft. 8 in.
2 x 8" -	16" o.c. -	11 ft. 5 in.
2 x 10" -	16" o.c. -	14 ft. 6 in.
2 x 12" -	16" o.c. -	17 ft. 10 in.

- c. Midspan blocking for any freespan over 8 ft.

9. TYPE OF DECKING.

10. GUARDRAILS- 36" MINIMUM HEIGHT FROM FINISHED FLOOR AND 4" MAXIMUM SPACING OF BALUSTERS.

11. HANDRAILS- 30"-38" FROM TREAD TO TOP OF HANDRAIL.

- a. Handrails on all stairs with 4 or more risers.
- b. Handrails must be graspable according to Section R311.7.7.3.

12. STAIRS (SEE DETAIL)

- a. 36" minimum width.
- b. Minimum 9" tread Maximum 8 1/4" riser height.
- c. Stringers must lay on concrete pad (Minimum 2" slab)
- d. No open risers permitted.
- e. Provide nosing not less than 3/4" but no more than 1 1/4".

13. COST OF DECK INCLUDING LABOR AND MATERIAL

14. REQUIRED INSPECTIONS:

- a. AFTER HOLES ARE DUG, PRIOR TO PLACING CONCRETE.
- b. AFTER COMPLETION OF CONSTRUCTION FOR CERTIFICATE OF OCCUPANCY.

*FAILURE TO CALL FOR INSPECTIONS IS IN VIOLATION OF N.J.A.C. 5:23-2.18(b)

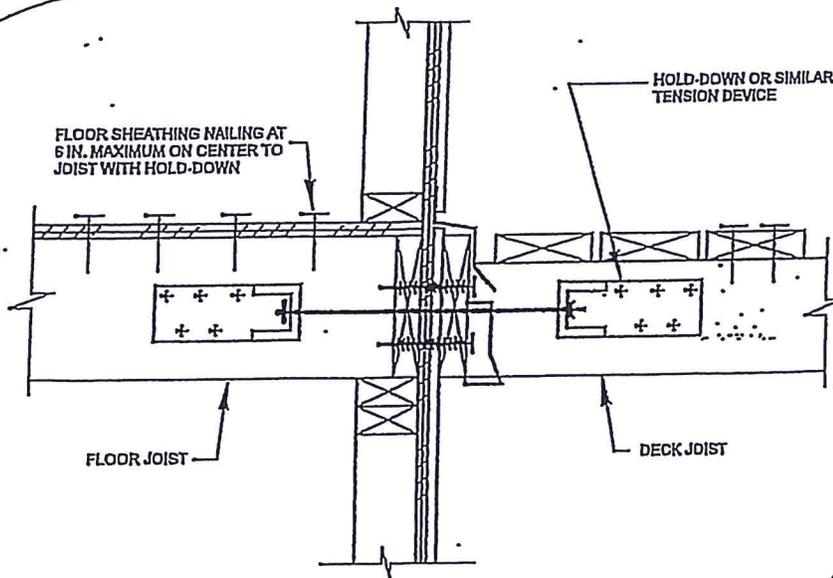
TABLE R502.2.2.1
FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER
AND A 2-INCH NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST^{a, b}
 (Deck live load = 40 psf, deck dead load = 10 psf)

JOIST SPAN	6' and less	6'1" to 8'	8'1" to 10'	10'1" to 12'	12'1" to 14'	14'1" to 16'	16'1" to 18'
Connection details	On-center spacing of fasteners ^{d, e}						
1/2 inch diameter lag screw with 15/32 inch maximum sheathing ^g	30	23	18	15	13	11	10
1/2 inch diameter bolt with 15/32 inch maximum sheathing	36	36	34	29	24	21	19
1/2 inch diameter bolt with 15/32 inch maximum sheathing and 1/2 inch stacked washers ^{b, h}	36	36	29	24	21	18	16

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 0.0479 kPa.

- a. The tip of the lag screw shall fully extend beyond the inside face of the band joist.
- b. The maximum gap between the face of the ledger board and face of the wall sheathing shall be 1/2".
- c. Ledgers shall be flashed to prevent water from contacting the house band joist.
- d. Lag screws and bolts shall be staggered in accordance with Section R502.2.2.1.1.
- e. Deck ledger shall be minimum 2 x 8 pressure-preservative-treated No. 2 grade lumber, or other approved materials as established by standard engineering practice.
- f. When solid-sawn pressure-preservative-treated deck ledgers are attached to a minimum 1 inch thick engineered wood product (structural composite lumber, laminated veneer lumber or wood structural panel band joist), the ledger attachment shall be designed in accordance with accepted engineering practice.
- g. A minimum 1 x 9 1/2 Douglas Fir laminated veneer lumber rimboard shall be permitted in lieu of the 2-inch nominal band joist.
- h. Wood structural panel sheathing, gypsum board sheathing or foam sheathing not exceeding 1 inch in thickness shall be permitted. The maximum distance between the face of the ledger board and the face of the band joist shall be 1 inch.

ITEM # 7(e)



For SI: 1 inch = 25.4 mm.

FIGURE 502.2.2.3
DECK ATTACHMENT FOR LATERAL LOADS

R502.3 Allowable joist spans. Spans for floor joists shall be in accordance with Tables R502.3.1(1) and R502.3.1(2). For other grades and species and for other loading conditions, refer to the AF&PA Span Tables for Joists and Rafters.

attics that are accessed by means of a fixed stairway in accordance with Section R311.7 provided that the design live load does not exceed 30 pounds per square foot (1.44 kPa) and the design dead load does not exceed 20 pounds per square foot (0.96 kPa). The allowable span of joists

SAMPLE DECK DRAWING

