Single Family Residential—Uncovered Deck and Porches

Directions:

1. List homeowner name and address of project .
2. Fill in the blanks on pages 2 and 3 with dimensions and materials which will be used to build the structure. Please print legibly.
3. Choose which post to beam detail from page 4 that will be used.

Address:

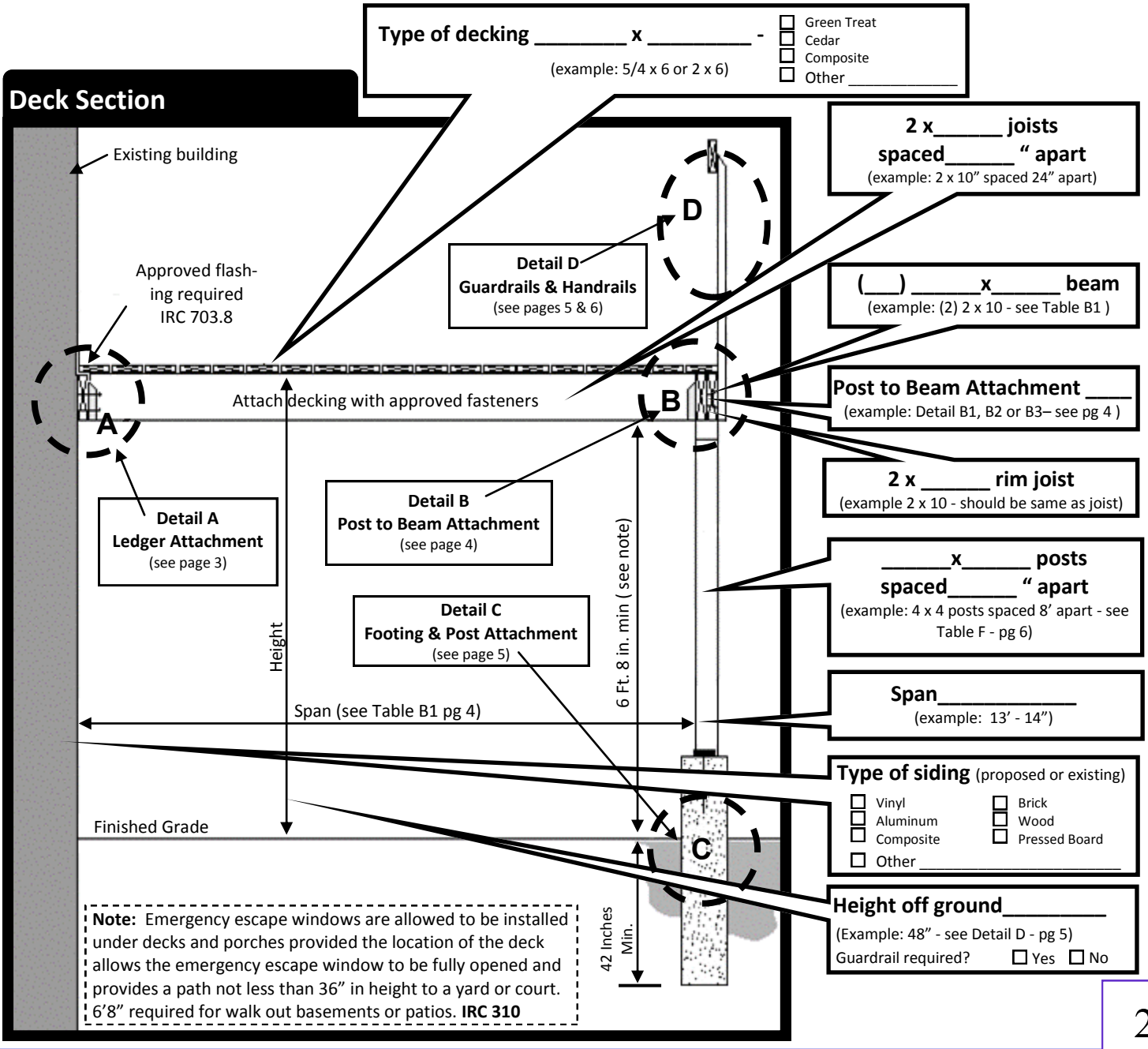
_____

_____

Minimum Requirements:

- All lumber shall be naturally durable wood or pressure treated.
- All screws, bolts, and nails for use with preservative treated wood shall be hot-dipped galvanized, stainless steel, silicon bronze or copper. Fasteners to be hot-dipped galvanized shall meet the requirements of ASTM A 153, Standard Specification for Zinc Coating (Hot- Dip) on Iron and Steel Hardware, Class D for fasteners 3/8" in diameter and smaller or Class C for fasteners with diameters over 3/8". IRC 317.3.1
- All hardware (joist hangers, cast-in-place post anchors, etc.) shall be galvanized or shall be stainless steel. Hardware to be hot-dipped prior to fabrication shall meet ASTM A 653, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process, G-185 coating. Hardware to be hot-dipped galvanized after fabrication shall meet ASTM A123, Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.

Deck Section



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Detail A

DIRECTIONS:

1. Identify Ledger Size 2 x _____ X _____ (example 2' x 10 " X 10')
2. Identify # of fasteners needed _____Size _____X_____ @_____O.C.
   (example two 1/2" X 6" lags @ 18" O.C. See Table A1)*If using fasteners other than 1/2 lag or bolts, provide manufacturer's specs.
3. Location of lateral load connections _____ (see Figure A2)

☐ 1/2 Lags
☐ 1/2 Bolts
☐ 1/2 Bolts w washers
☐ Other*_____

NOTE: This is for attached decks only. Where positive connection to the primary building structure cannot be verified during inspection, decks shall be self-supporting (502.2.2).

Table A1

IRC TABLE 502.2.2.1
FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER AND A 2-INCH NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST [C,F,G] (Deck live load = 40 psf, deck dead load = 10 psf)

FLOOR 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 inc diameter lag screw with 15/32 inch maximum sheathing [a]	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

Figure A1

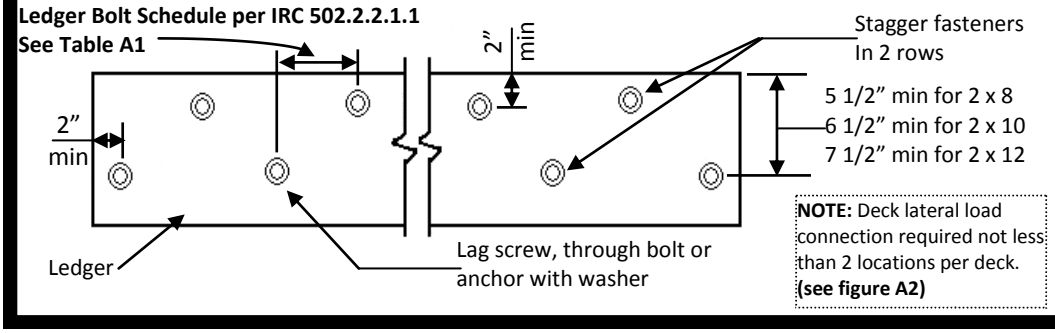
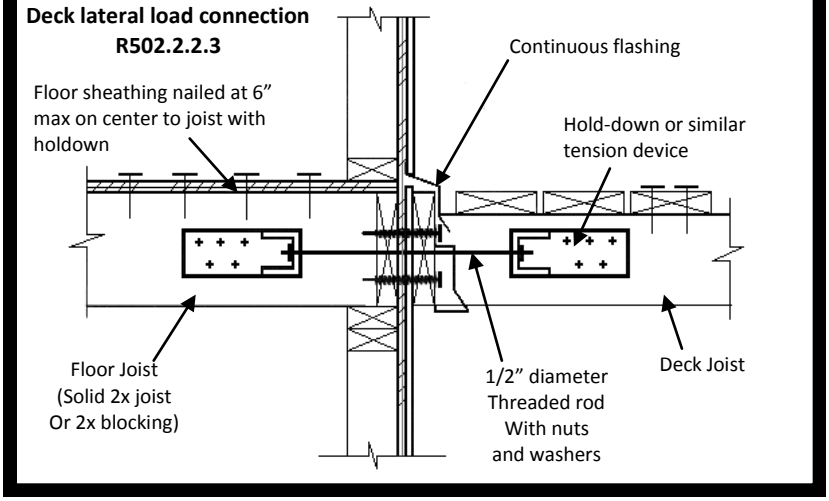


Figure A2



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 band joist.
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 the diagram above.
e. Deck ledger shall be minimum 2 x 8 pressure-preservative-treated No. 2 grade lumber, or other approved materials by standard engineering practice.
f. When solid-sawn preservative-treated deck ledgers are attached to a minimum 1 inch thick engineered wood product (structural composite lumber, LVL 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 LVL 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 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.