

GENERAL NOTES

SINGLE LEVEL EXTERIOR DECKS ATTACHED TO THE EXTERIOR WALL OF A ONE- OR TWO-FAMILY DWELLING.

APPLICABLE BUILDING CODE

2017 OREGON RESIDENTIAL SPECIALTY CODE (ORSC).

LIMITATIONS OF USE

USE OF AND ANY MODIFICATIONS TO THESE READY-BUILD PLANS IS SUBJECT TO REVIEW AND APPROVAL BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

- A. ULTIMATE WIND SPEED: 105-135MPH
- WIND EXPOSURE CATEGORY: B, C, OR D Β.
- SEISMIC DESIGN CATEGORY: C, D1, OR D2 C.

D. GROUND SNOW LOAD: < 40 PSF DECKS SUPPORTING LARGE CONCENTRATED LOADS SUCH AS HOT TUBS ARE BEYOND THE SCOPE OF THIS DOCUMENT.

APPLICANT SHALL USE THE CODE PRESCRIBED TABLES CONTAINED HEREIN AND RECORD THEIR PROJECT SPECIFIC DESIGN PARAMETERS (X) ON SHEET **S12** PRIOR TO PERMIT APPLICATION.

FOUNDATION

FOOTINGS SHALL BEAR ON NATIVE, INORGANIC, UNDISTURBED SOIL BELOW EXISTING GRADE. CONCRETE STRENGTH SHALL BE 3,000 PSI IN MODERATE WEATHERING REGIONS AND 3,500 PSI IN SEVERE WEATHERING REGIONS (SEE DETAIL 1/S11) [R301.2 AND R402.2].

WOOD FRAMING

ALL WOOD SHALL BE APPROVED NATURALLY DURABLE OR PRESSURE-PRESERVATIVE-TREATED (R317.1). ALL WOOD IN CONTACT WITH THE GROUND, OR EMBEDDED IN CONCRETE SHALL BE APPROVED PRESSURE-PRESERVATIVE-TREATED WOOD SUITABLE FOR GROUND CONTACT USE (R317.1.2). ALL CUTS SHALL BE FIELD TREATED WITH COPPER NAPHTHENATE (2% COPPER) [R402.1.2].

FASTENERS, ANCHORS, AND CONNECTORS FASTNERS SHALL BE HOT-DIPPED GALVANIZED. STAINLESS STEEL, OR APPROVED FOR USE WITH PRESERVATIVE-TREATED LUMBER. COATING TYPES FOR FRAMING ANCHORS SHALL BE IN ACCORDANCE WITH MFR'S RECOMMENDATIONS (SHALL BE PROVIDED WITH SUBMITTAL) [R317.3].

Ш PRESCRIPTIVE

EFFECTIVE

REVISIONS

General Notes

S01

DATE

NO.

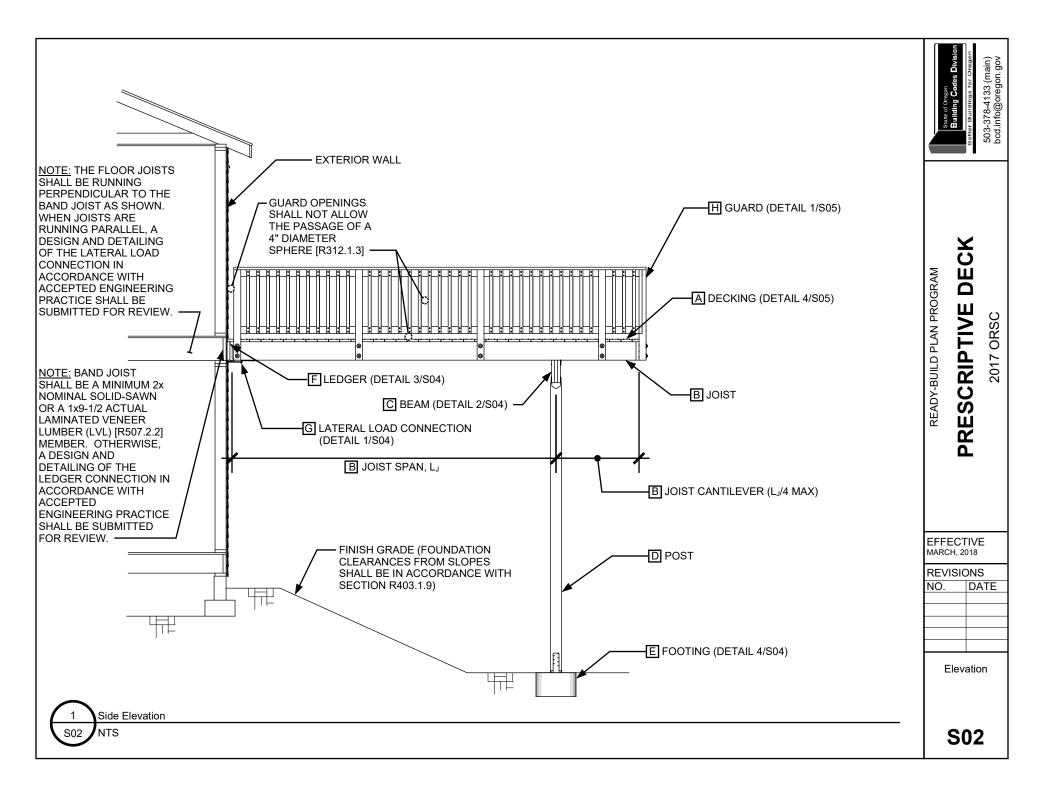
MARCH. 2018

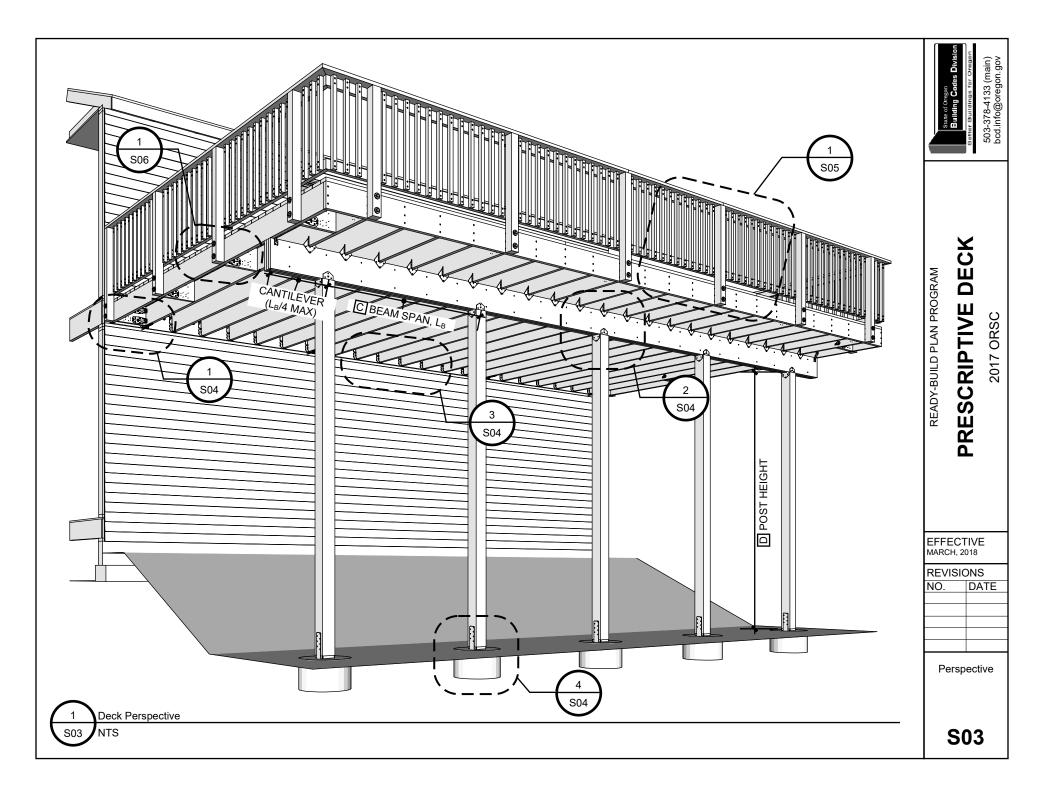
READY-BUILD PLAN PROGRAM

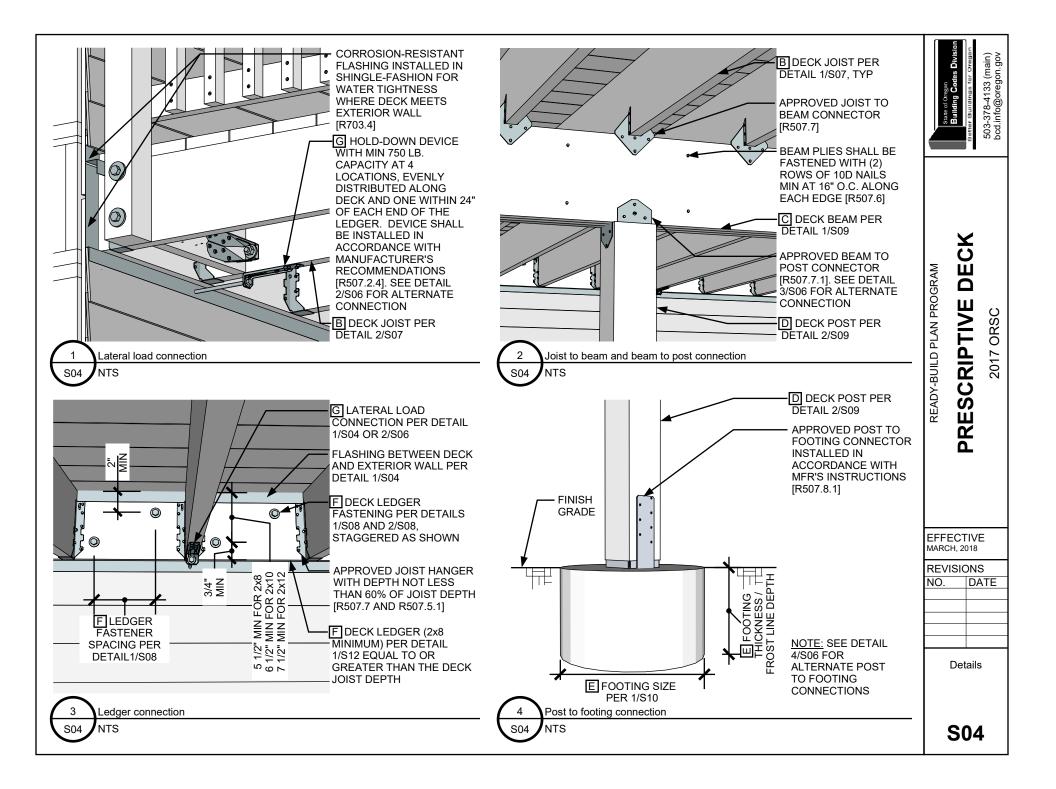
SC

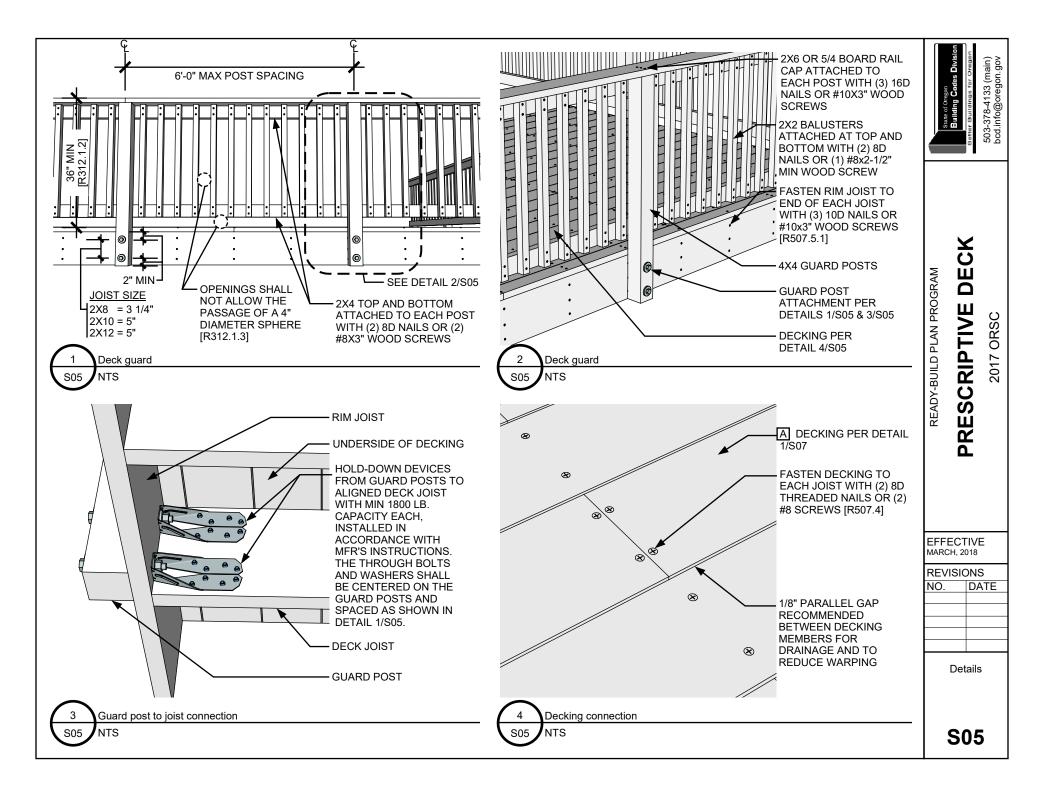
2017 **ORSC**

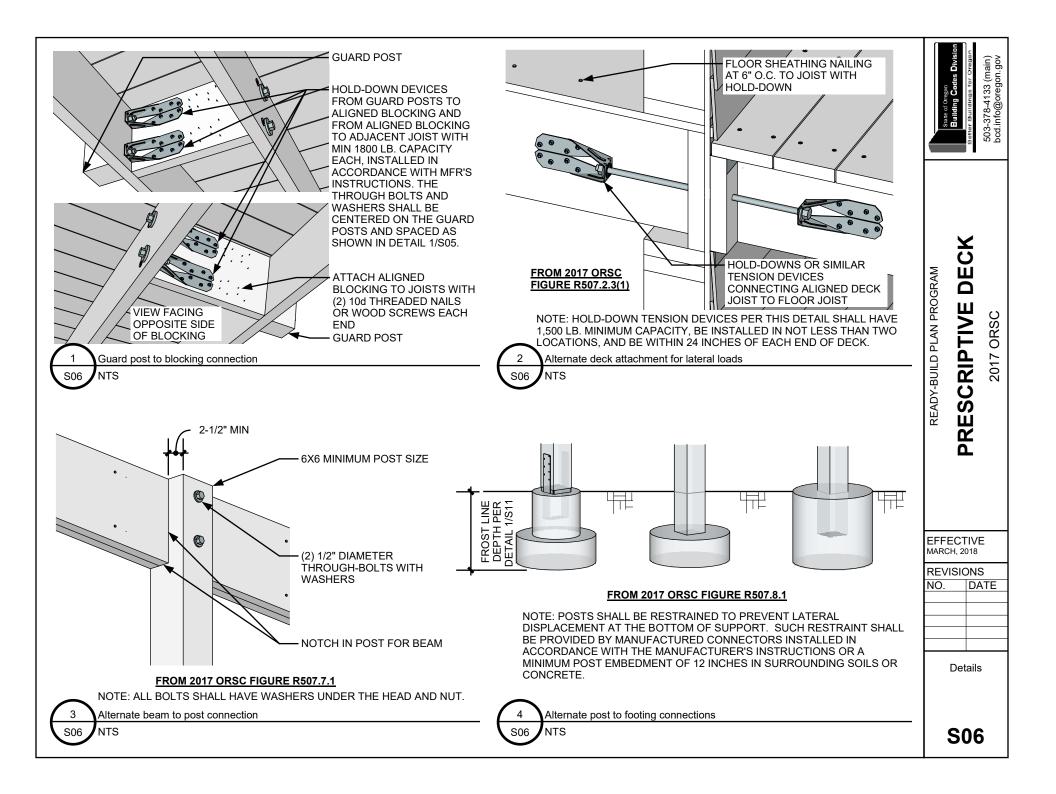
503-378-4133 (main) bcd.info@oregon.gov











DECKING TYPE AND	MAXIMUM ON-CENTER JOIST SPACING (in.)				
NOMINAL SIZE	Perpendicular to joist	Diagonal to joist ^a			
5/4-inch-thick wood	16	12			
2-inch-thick wood	24	16			
Plastic composite ^b	Per decking manufacturer	Per decking manufacturer			

EPOM 2017 OPSC TABLE P507 4

a. Maximum angle of 45 degrees from perpendicular for wood deck boards.

b. Plastic composite deck materials shall comply with the requirements of ASTM D7032 and Section R507.3.

Maximum Joist Spacing Table (from 2017 ORSC Table R507.4)

SPACING OF DECK JOISTS WITH CANTILEVER SPACING OF DECK JOISTS WITH NO CANTILEVER^b (in.) (in.) SPECIES^a SIZE 12 16 24 12 16 24 2x6 9-6 8-8 7-2 6-3 6-3 6-3 Douglas Fir-2x8 12-6 11-1 9-1 9-5 9-5 9-1 Larch, Hem-Fir, Spruce-Pine-Fir 2x10 15-8 13-7 11-1 13-7 13-7 11-1 2x12 18-0 15-9 12-10 18-0 15-9 12-10 2x6 8-10 8-0 7-0 5-7 5-7 5-7 Redwood, 2x8 11-8 10-7 8-8 8-6 8-6 8-6 Western Cedars, Ponderosa Pine. 2x10 14-11 13-0 10-7 12-3 12-3 10-7 Red Pine 2x12 17-5 15-1 12-4 16-5 15-1 12-4

JOIST SPANS, L_J (ft.-in.)

a. No. 2 grade.

2

S07

NTS

NTS

S07

b. Cantilevered spans not exceeding the nominal depth of the joist are considered "with no cantilever" for this table.

Maximum Joist Spans Table From (from 2017 ORSC Table R507.5)

503-378-4133 (main) bcd.info@oregon.gov PRESCRIPTIVE DECK READY-BUILD PLAN PROGRAM

2017 ORSC

EFFECTIVE MARCH, 2018 REVISIONS

NO. DATE

Tables

S07

LEDGER CONNECTION TO BAND JOIST^a

	JOIST SPAN (ft.), LJ								
CONNECTION DETAILS	≤ 6	≤ 8	≤ 10	≤ 12	≤ 14	≤ 16	≤ 18		
	ON-CENTER SPACING OF FASTENERS (in.)								
1/2-inch diameter lag screw with 1/2- inch maximum sheathing ^{b, c}	30	23	18	15	13	11	10		
1/2-inch diameter through bolt with 1/2- inch maximum sheathing ^c	36	36	34	29	24	21	19		
1/2-inch diameter through bolt with 1- inch maximum sheathing ^d	36	36	29	24	21	18	16		

a. Ledgers shall be flashed with approved corrosion-resistant flashing applied shingle-fashion in a manner to prevent entry of water into the wall cavity or penetration of water to the building structural framing components in accordance with Section R703.4.

b. The tip of the lag screw shall fully extend beyond the inside face of the band joist.

c. Sheathing shall be wood structural panel or solid sawn lumber.

d. Sheathing shall be permitted to be wood structural panel, gypsum board, fiberboard, lumber, or foam sheathing. Up to 1/2-inch thickness of stacked washers shall be permitted to substitute for up to 1/2-inch of allowable sheathing thickness where combined with wood structural panel or lumber sheathing.

Minimum Ledger Connection Table (from 2017 ORSC Table R507.2)

PLACEMENT OF LAG SCREWS AND THROUGH BOLTS IN LEDGERS AND BAND JOI	тς

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (in.)

	-			-
	TOP EDGE		CUT ENDS	ROW SPACING
LEDGER ^a	2 ^d	3/4	2 ^b	1 5/8 ^b
BAND JOIST ^C	3/4	2	2 ^b	1 5/8 ^b

a. Lag screws or bolts shall be staggered from the top to the bottom along the horizontal run of the deck ledger in accordance with detail 3/S04.

b. Maximum of 5 inches.

NTS

S08

S08

NTS

c. For engineered rim joists, the manufacturer's recommendations shall govern.

d. The minimum distance from bottom row of lag screws or bolts to the top edge of the ledger shall be in accordance with detail 3/S04.

Ledger Fasteners Placement Table (from 2017 ORSC Table R507.2.1)

S

ШD

PRESCRIPTIVE

EFFECTIVE MARCH, 2018 REVISIONS NO.

Tables

S08

DATE

2017 **ORSC**

READY-BUILD PLAN PROGRAM

SPECIES ^b	SIZE ^c		DECK JOIST SPAN, LJ, (ft.)						
		≤ 6	≤ 8	≤ 10	≤ 12	≤ 1 4	≤ 16	≤ 18	
	3x6 or 2-2x6	5-5	4-8	4-2	3-10	3-6	3-1	2-9	
	3x8 or 2-2x8	6-10	5-11	5-4	4-10	4-6	4-1	3-8	
	3x10 or 2-2x10	8-4	7-3	6-6	5-11	5-6	5-1	4-8	
Douglas Fir-Larch, Hem- Fir, Spruce-Pine-Fir, Redwood, Western Cedars, Ponderosa Pine, Red Pine	3x12 or 2-2x6	9-8	8-5	7-6	6-10	6-4	5-11	5-7	
	4x6	6-5	5-6	4-11	4-6	4-2	3-11	3-8	
	4x8	8-5	7-3	6-6	5-11	5-6	5-2	4-10	
	4x10	9-11	8-7	7-8	7-0	6-6	6-1	5-8	
	4x12	11-5	9-11	8-10	8-1	7-6	7-0	6-7	
	3-2x6	7-4	6-8	6-0	5-6	5-1	4-9	4-6	
	3-2x8	9-8	8-6	7-7	6-11	6-5	6-0	5-8	
	3-2x10	12-0	10-5	9-4	8-6	7-10	7-4	6-11	
	3-2x12	13-11	12-1	10-9	9-10	9-1	8-6	8-1	

a. Beams supporting deck joists from one side only (with optional joist cantilever).

b. No. 2 grade.

1 S09

2 S09 NTS

c. Beam depth shall be greater than or equal to depth of joists with a flush beam condition.

Maximum Beam Spans Table (from 2017 ORSC Table R507.6)

POST HEIGHT

SPECIES ^b	DECK POST SIZE	HEIGHT ^a (ft.)
Douglas Fir-Larch, Hem-Fir,	4x4	8
Spruce-Pine-Fir, Redwood, Western Cedars, Ponderosa Pine, Red Pine	4x6	8
	6x6	14

a. Measured to the underside of the beam.

b. No. 2 grade.

NTS

Maximum Post Height Table (from 2017 ORSC Table R507.8)

503-378-4133 (main) bcd.info@oregon.gov

2017 **ORSC**

PRESCRIPTIVE DECK READY-BUILD PLAN PROGRAM

EFFECTIVE MARCH, 2018 REVISIONS NO.

Tables

S09

DATE

FOOTING DIMENSIONS ^a						
BEAM SPAN (ft), L_B	JOIST SPAN (ft.), L _J	ROUND FOOTING DIAMETER (in.)	SQUARE FOOTING WIDTH (in.)	MINIMUM FOOTING THICKNESS ^b (in.)		
	≤ 10	18	16	8		
≤ 6	≤ 14	21	19	8		
	≤ 18	24	21	10		
	≤ 10	20	18	8		
≤ 8	≤ 14	24	22	10		
	≤ 18	27	24	11		
< 10	≤ 10	23	20	9		
≤ 10	≤ 14	27	24	11		
≤ 12	≤ 10	25	22	10		
≤ 14	≤ 10	27	24	11		

a. Assumes 1,500 psf soil bearing capacity per Section R401.4.1. b. In accordance with Section R403.1.4, footings shall be placed not less than 12 inches below the finished grade on undisturbed ground surface and shall extend below the frost line depth specified in Table R301.2(1). Coordinate footing thickness with post base manufacturer installation instructions.

Minimum Footing Sizes Table (Ref 2017 ORSC Section R403)

NTS S10

1

PRESCRIPTIVE DECK 2017 **ORSC**

READY-BUILD PLAN PROGRAM

503-378-4133 (main) bcd.info@oregon.gov

EFFECTIVE MARCH, 2018

REVISIONS NO.

Tables

S10

DATE

		IMATIC AND G	EOGRAPHIC DI	ESIGN CRITER		
COUNTY	GROUND SNOW	ULTIMATE DESIGN	SEISMIC DESIGN	SUBJECT TO DAMAGE		
	LOAD ^a = 36 psf	WIND SPEED	CATEGORY	Weathering ^d	Frost line depth (inches)	Decay
Baker	3,200	Note b	Note c	Severe	24	Slight
Benton	400	Note b	Note c	Moderate	12	Moderate
Clackamas	500	Note b	Note c	Moderate	12	Moderate
Clatsop	400	Note b	Note c	Moderate	12	Moderate
Columbia	400	Note b	Note c	Moderate	12	Moderate
Coos	400	Note b	Note c	Moderate	12	Moderate
Crook	4,100	Note b	Note c	Severe	18	Slight
Curry	400	Note b	Note c	Moderate	12	Moderate
Deschutes	4,000	Note b	Note c	Severe	18	Slight
Douglas	1,500	Note b	Note c	Moderate	18	Moderate
Gilliam	3,000	Note b	Note c	Severe	24	Moderate
5.45.5°N	-,	Note b	Note c			
N.45.5°N		Note b	Note c			
Grant	4,100	Note b	Note c	Severe	24	Slight
Harney	4,100	Note b	Note c	Severe	24	Moderate
Hood River	Note e	Note b	Note c	Severe	24	Moderate
Jackson	2,000	Note b	Note c	Moderate	18 ^f	Slight
Jefferson	4,100	Note b	Note c	Severe	18	Moderate
Josephine	4,100	Note b	Note c	Moderate	18 ^f	Moderate
•				Severe		
Klamath	4,000	Note b	Note c		24	Moderate
_ake	4,200	Note b	Note c	Severe	24	Slight
_ane	500	Note b	Note c	Moderate	12	Moderate
Lincoln	400	Note b	Note c	Moderate	12	Moderate
_inn	700	Note b	Note c	Moderate	12	Moderate
Malheur	3,400	Note b	Note c	Severe	24	Slight
Marion	500	Note b	Note c	Moderate	12	Moderate
Morrow	3,000	Note b	Note c	Severe	24	Slight
3.45.5°N		Note b	Note c			
N.45.5°N		Note b	Note c			
Multnomah	500	Note b	Note c	Moderate	18	Moderate
Polk	400	Note b	Note c	Moderate	12	Moderate
Sherman	2,000	Note b	Note c	Severe	24	Slight
S.45.5°N		Note b	Note c			
N.45.5°N		Note b	Note c			
Fillamook	400	Note b	Note c	Moderate	12	Moderate
Jmatilla	3,000	Note b	Note c	Severe	24	Slight
S.45.5°N		Note b	Note c			
N.45.5°N		Note b	Note c			
Jnion	3,000	Note b	Note c	Severe	24	Slight
Vallowa	3,000	Note b	Note c	Severe	24	Slight
Vasco	2,000	Note b	Note c	Severe	24	Slight
S.45.5°N		Note b	Note c			
N.45.5°N		Note b	Note c			
Washington	400	Note b	Note c	Moderate	12	Moderate
Wheeler	4,100	Note b	Note c	Severe	24	Slight
Yamhill	400	Note b	Note c	Moderate	12	Moderate

2017 ORSC TABLE R301.2(1)

a. For locations with elevation higher than the listed values or for a possible reduction in minimum design roof snow load from 25 psf to 20 psf, refer to the Snow Load Analysis for Oregon (including the ground snow load maps) published by the Structural Engineers Association of Oregon in 2007, in conjunction with the 2010 Oregon Snow Load Map update and Interim Guidelines for Snow Load Determination for the State of Oregon, published in 2011.

manuale zero oregon one Load map update and merini equipaties for Snow Load Determination for the State of Oregon, published in 2011.
b. Refer to Figure R301.2(4) for mapped Ultimate Design Wind Speeds. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4.

c. Refer to Figure R301.2(2) for mapped Seismic Design Categories.

d. A severe classification is where weather conditions result in significant snowfall combined with extended periods during which there is little or not natural thawing causing de-icing salts to be used extensively.

e. For elevations below 500 feet, the ground snow load is 50 psf. Above 500 feet, see Note a.

f. The frost line depth below 2,500 feet in Jackson and Josephine Counties is 12 inches.

g. See Section R301.2 and R322 for establishment of flood hazard design criteria. h. See Section R327 for establishment of wildfire hazard design criteria.

Climatic and Geographic Criteria By County

1 S11

NTS

PRESCRIPTIVE DECK 2017 **ORSC**

READY-BUILD PLAN PROGRAM

503-378-4133 (main) bcd.info@oregon.gov

ve Div

S11

Tables

EFFECTIVE MARCH, 2018 REVISIONS NO.

DATE

A DECKING [R507.4]: size: □2x □five-quarter material: □preservative-treated □plastic composite □naturally durable (e.g. cedar) orientation: □perpendicular to joists □diagonal to joists	Building Codes Division Building Codes Division Better Buildings for Oregon 503-378-4133 (main) bod.info@oregon.gov
B JOISTS [R507.5]: size: □2x6 □2x10 □2x12 spacing: □12 in. □16 in. □24 in. span, L_j: ftin. in. cantilever: ftin. (L_j/4 MAX) rim joist: □2x6 □2x10 □2x12 □not applicable	
C BEAMS [R507.6]: plies: □1 □2 □3 size: □2x6 □2x10 □2x12 □4x6 □4x10 □4x12 □x span, L _B : ftin. ftin. (L _B /4 MAX)	READY-BUILD PLAN PROGRAM ESCRIPTIVE DECK 2017 ORSC
D POSTS [R507.8]: size: □4x4 □4x6 □6x6 □x height: ftin.	PRESCRIPTIVE 2017 ORSC
E FOOTINGS [R507.8.1]: size:in.	READ
F LEDGER [R507.2]: size: □2x8 □2x10 □2x12 fastener: □1/2" through-bolt □1/2" lag screw □code-compliant alternate (attach report) fastener spacing:in. on-center	
G LATERAL LOAD CONNECTION [R507.2.4]: □(4) 750 pound hold-down tension devices (detail 1/S04) □(2) 1,500 pound hold-down tension devices (detail 2/S06) □code-compliant alternate (attach report)	EFFECTIVE MARCH, 2018 REVISIONS NO. DATE
H GUARDRAIL POST ATTACHMENT [R301.5]: □details 1-3/S05 & 1/S06 □code-compliant alternate (attach detail).	
NOTE: THE PERMIT APPLICANT SHALL PROVIDE THE PROJECT SPECIFIC DESIGN BY CHECKING THE APPLICABLE BOXES AND ENTERING THE APPROPRIATE INFORMATION ABOVE PRIOR TO PERMIT APPLICATION.	Project Specific Information
1 Project Specific Information	
S12 NTS	S12