

Pole Dimension Table (ANSI O5.1)

Dimensions of Douglas-fir (both types) and Southern Pine Poles (Fiber Strength 8000 psi)

Class		H6	H5	H4	H3	H2	H1	1	2	3	4	5	6	7	9	10
Minimum circumference at top (in)		39	37	35	33	31	29	27	25	23	21	19	17	15	15	12
Length of pole (ft)	Approximate Groundline ¹⁾ distance from butt (ft)	Minimum circumference at 6 ft from butt (in)														
		20	4	42.0	40.5	38.5	36.5	34.5	33.0	31.0	29.0	27.0	25.0	23.0	21.0	19.5
25	5	46.0	44.0	42.0	40.0	38.0	36.0	33.5	31.5	29.5	27.5	25.5	23.0	21.5	19.5	15.0
30	5.5	49.5	47.5	45.5	43.0	41.0	38.5	36.5	34.0	32.0	29.5	27.5	25.0	23.5	20.5	-
35	6	53.0	50.5	48.5	46.0	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0	25.0	-	-
40	6	56.0	53.5	51.0	48.5	46.0	43.5	41.0	38.5	36.0	33.5	31.0	28.5	-	-	-
45	6.5	58.5	56.0	53.5	51.0	48.5	45.5	43.0	40.5	37.5	35.0	32.5	30.0	-	-	-
50	7	61.0	58.5	55.5	53.0	50.5	47.5	45.0	42.0	39.0	36.5	34.0	-	-	-	-
55	7.5	63.5	60.5	58.0	55.0	52.0	49.5	46.5	43.5	40.5	38.0	-	-	-	-	-
60	8	65.5	62.5	59.5	57.0	54.0	51.0	48.0	45.0	42.0	39.0	-	-	-	-	-
65	8.5	67.5	64.5	61.5	58.5	55.5	52.5	49.5	46.5	43.5	40.5	-	-	-	-	-
70	9	69.0	66.5	63.5	60.5	57.0	54.0	51.0	48.0	45.0	41.5	-	-	-	-	-
75	9.5	71.0	68.0	65.0	62.0	59.0	55.5	52.5	49.0	46.0	-	-	-	-	-	-
80	10	72.5	69.5	66.5	63.5	60.0	57.0	54.0	50.5	47.0	-	-	-	-	-	-
85	10.5	74.5	71.5	68.0	65.0	61.5	58.5	55.0	51.5	48.0	-	-	-	-	-	-
90	11	76.0	73.0	69.5	66.5	63.0	59.5	56.0	53.0	49.0	-	-	-	-	-	-
95	11	77.5	74.5	71.0	67.5	64.5	61.0	57.0	54.0	-	-	-	-	-	-	-
100	11	79.0	76.0	72.5	69.0	65.5	62.0	58.5	55.0	-	-	-	-	-	-	-
105	12	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	-	-	-	-	-	-	-
110	12	82.0	78.5	75.0	71.5	68.0	64.5	60.5	57.0	-	-	-	-	-	-	-
115	12	83.5	80.0	76.5	72.5	69.0	65.5	61.5	58.0	-	-	-	-	-	-	-
120	12	85.0	81.0	77.5	74.0	70.0	66.5	62.5	59.0	-	-	-	-	-	-	-
125	12	86.0	82.5	78.5	75.0	71.0	67.5	63.5	59.5	-	-	-	-	-	-	-

¹⁾ The figures in this column are not recommended embedment depths; rather, these values are intended for use only when a definition of groundline is necessary in order to apply requirements relating to scars, straightness, etc.

Dimensions of Jack Pine, Lodgepole Pine, Red Pine, Western Fir, and Radiata Pine²⁾ (Fiber Strength 6600 psi)

Class		H6	H5	H4	H3	H2	H1	1	2	3	4	5	6	7	9	10
Minimum circumference at top (in)		39	37	35	33	31	29	27	25	23	21	19	17	15	15	12
Length of pole (ft)	Approximate Groundline ¹⁾ distance from butt (ft)	Minimum circumference at 6 ft from butt (in)														
		20	4	44.5	43.0	41.0	39.0	37.0	35.0	32.5	30.5	28.5	26.5	24.5	22.5	21.0
25	5	49.0	47.0	44.5	42.5	40.5	38.0	36.0	33.5	31.0	29.0	27.0	25.0	23.0	20.0	15.5
30	5.5	53.0	50.5	48.5	46.0	43.5	41.5	39.0	36.5	34.0	31.5	29.0	27.0	25.0	21.0	-
35	6	56.5	54.0	51.5	49.0	46.5	44.0	41.5	38.5	36.0	33.5	31.0	28.5	26.5	-	-
40	6	59.5	57.0	54.5	52.0	49.0	46.5	44.0	41.0	38.0	35.5	33.0	30.5	-	-	-
45	6.5	62.5	60.0	57.0	54.5	51.5	49.0	46.0	43.0	40.0	37.0	34.5	32.0	-	-	-
50	7	65.0	62.5	59.5	56.5	54.0	51.0	48.0	45.0	42.0	39.0	36.0	-	-	-	-
55	7.5	67.5	64.5	61.5	59.0	56.0	53.0	49.5	46.5	43.5	40.5	-	-	-	-	-
60	8	70.0	67.0	64.0	61.0	57.5	54.5	51.5	48.0	45.0	42.0	-	-	-	-	-
65	8.5	72.0	69.0	66.0	62.5	59.5	56.5	53.0	49.5	46.0	43.0	-	-	-	-	-
70	9	74.0	71.0	67.5	64.5	61.0	58.0	54.5	51.0	47.5	44.5	-	-	-	-	-
75	9.5	76.0	72.5	69.5	66.0	63.0	59.5	56.0	52.5	49.0	-	-	-	-	-	-
80	10	78.0	74.5	71.0	68.0	64.5	61.0	57.5	54.0	50.5	-	-	-	-	-	-
85	10.5	79.5	76.5	73.0	69.5	66.0	62.5	58.5	55.0	51.5	-	-	-	-	-	-
90	11	81.5	78.0	74.5	71.0	67.5	64.0	60.0	56.5	52.5	-	-	-	-	-	-
95	11	83.0	79.5	76.0	72.5	69.0	65.0	61.5	57.5	-	-	-	-	-	-	-
100	11	84.5	81.0	77.5	74.0	70.0	66.5	62.5	58.5	-	-	-	-	-	-	-
105	12	86.0	82.5	79.0	75.0	71.5	67.5	63.5	60.0	-	-	-	-	-	-	-
110	12	87.5	84.0	80.5	76.5	72.5	69.0	65.0	61.0	-	-	-	-	-	-	-
115	12	89.0	85.5	81.5	78.0	74.0	70.0	66.0	62.0	-	-	-	-	-	-	-
120	12	90.5	87.0	83.0	79.0	75.0	71.0	67.0	63.0	-	-	-	-	-	-	-
125	12	92.0	88.0	84.0	80.0	76.0	72.0	68.0	64.0	-	-	-	-	-	-	-

¹⁾ The figures in this column are not recommended embedment depths; rather, these values are intended for use only when a definition of groundline is necessary in order to apply requirements relating to scars, straightness, etc.

²⁾ Radiata pine includes only material produced in Chile between south 33° and south 40° latitude, is limited to no more than 45 feet in length, and limited to pole class sizes 4-10.

Dimensions of Western Red Cedar¹⁾ and Ponderosa Pine Poles (Fiber Strength 6000 psi)

Class		H6	H5	H4	H3	H2	H1	1	2	3	4	5	6	7	9	10
Minimum circumference at top (in)		39	37	35	33	31	29	27	25	23	21	19	17	15	15	12
Length of pole (ft)	Approximate Groundline ²⁾ distance from butt (ft)	Minimum circumference at 6 ft from butt (in)														
		20	4	46.0	44.0	42.0	40.0	38.0	36.0	33.5	31.5	29.5	27.0	25.0	23.0	21.5
25	5	50.5	48.5	46.0	44.0	41.5	39.5	37.0	34.5	32.5	30.0	28.0	25.5	24.0	20.5	16.5
30	5.5	54.5	52.0	50.0	47.5	45.0	42.5	40.0	37.5	35.0	32.5	30.0	28.0	26.0	22.0	-
35	6	58.0	55.5	53.0	50.5	48.0	45.5	42.5	40.0	37.5	34.5	32.0	30.0	27.5	-	-
40	6	61.5	59.0	56.5	53.5	51.0	48.0	45.0	42.5	39.5	36.5	34.0	31.5	-	-	-
45	6.5	64.5	62.0	59.0	56.0	53.5	50.0	47.5	44.5	41.5	38.5	36.0	33.0	-	-	-
50	7	67.0	64.5	61.5	58.5	55.5	52.5	49.5	46.5	43.5	40.0	37.5	-	-	-	-
55	7.5	70.0	67.0	64.0	61.0	57.5	54.5	51.5	48.5	45.0	42.0	-	-	-	-	-
60	8	72.0	69.0	66.0	63.0	59.5	56.5	53.5	50.0	46.5	43.5	-	-	-	-	-
65	8.5	74.5	71.5	68.0	65.0	61.5	58.5	55.0	51.5	48.0	45.0	-	-	-	-	-
70	9	76.5	73.5	70.0	67.0	63.5	60.0	56.5	53.0	49.5	46.0	-	-	-	-	-
75	9.5	78.5	75.5	72.0	68.5	65.0	61.5	58.0	54.5	51.0	-	-	-	-	-	-
80	10	80.5	77.0	74.0	70.5	67.0	63.0	59.5	56.0	52.0	-	-	-	-	-	-
85	10.5	82.5	79.0	75.5	72.0	68.5	64.5	61.0	57.0	53.5	-	-	-	-	-	-
90	11	84.5	81.0	77.0	73.5	70.0	66.0	62.5	58.5	54.5	-	-	-	-	-	-
95	11	86.0	82.5	79.0	75.0	71.5	67.5	63.5	59.5	-	-	-	-	-	-	-
100	11	87.5	84.0	80.5	76.5	72.5	69.0	65.0	61.0	-	-	-	-	-	-	-
105	12	89.5	85.5	82.0	78.0	74.0	70.0	66.0	62.0	-	-	-	-	-	-	-
110	12	91.0	87.0	83.5	79.5	75.5	71.5	67.5	63.0	-	-	-	-	-	-	-
115	12	92.5	88.5	84.5	80.5	76.5	72.5	68.5	64.0	-	-	-	-	-	-	-
120	12	94.0	90.0	86.0	82.0	78.0	74.0	69.5	65.0	-	-	-	-	-	-	-
125	12	95.5	91.5	87.5	83.0	79.0	75.0	70.5	66.0	-	-	-	-	-	-	-

¹⁾ Dimensions of H Classes are applicable for western red cedar only.

²⁾ The figures in this column are not recommended embedment depths; rather, these values are intended for use only when a definition of groundline is necessary in order to apply requirements relating to scars, straightness, etc.