

Table 9
Commercial Species of Lumber

	Commercial Species Group Designation	Grade Stamp Identification	Species in Combination	Wood Characteristics
Most Common	Spruce – Pine – Fir	S – P – F	Spruce (all species except coast sitka spruce), lodgepole pine, jack pine, alpine fir, balsam fir	Woods of similar characteristics. They work easily, take paint easily and hold nails well. Generally white to pale yellow in colour.
	Douglas Fir – Larch	D. Fir – L	Douglas fir, western larch	High degree of hardness and good resistance to decay. Good nail holding, gluing and painting qualities. Colour ranges from reddish-brown to yellowish white.
	Hem – Fir	Hem – Fir	Pacific coast hemlock, amabilis fir	They work easily, take paint well and hold nails well. Good gluing characteristics. Colour range pale yellow-brown to white.
Less Common	Northern Species	North	Western red cedar	Wood with exceptional resistance to decay. Moderate in strength. High in appearance qualities, it works easily and takes fine finishes. Colour varies from reddish-brown heart wood to light sapwood.
		North	Red pine, ponderosa pine	Fairly strong and easy to work woods that take a good finish and hold nails and screws well. Moderately durable; they season with little checking or cupping. Sapwood is a pale yellow colour; heartwood pale brown to reddish tinge.
			Western white pine, eastern white pine	Softest of the Canadian pines, they work and finish exceptionally well. Not as strong as most pines but do not tend to split or splinter. Good nail holding properties. Low shrinkage, better than all other Canadian species except the cedars. Take stains, paints and varnishes well. Colour of sapwood almost white; heartwood creamy white to light straw brown.
			Trembling aspen, largetooth aspen, balsam poplar	Light woods of moderate strength, they work easily, finish well and hold nails well. Generally light in colour, varying from almost white to greyish-white.

APPENDIX — TABLES

Table 10
Sizes for Dimension Lumber and Boards

	Nominal Sizes, in.	Actual Sizes, in.		Metric Equivalents, mm		Metric Nomenclature, mm
		Dry	Green	Dry	Green	
Dimension Lumber	2 x 2	1½ x 1½	1 ⁹ / ₁₆ x 1 ⁹ / ₁₆	38 x 38	40 x 40	38 x 38
	3	2½	2 ⁹ / ₁₆	64	65	64
	4	3½	3 ⁹ / ₁₆	89	90	89
	6	5½	5 ⁵ / ₈	140	143	140
	8	7¼	7½	184	190	184
	10	9¼	9½	235	241	235
	12	11¼	11½	286	292	286
	3 x 3, etc.	2½ x 2½	2 ⁹ / ₁₆ x 2 ⁹ / ₁₆	64 x 64	65 x 65	64 x 64
	4 x 4, etc.	3½ x 3½	3 ⁹ / ₁₆ x 3 ⁹ / ₁₆	89 x 89	90 x 90	89 x 89
Boards	1 x 2	¾ x 1½	1 ³ / ₁₆ x 1 ⁹ / ₁₆	19 x 38	21 x 40	19 x 38
	3	2½	2 ⁹ / ₁₆	64	65	64
	4	3½	3 ⁹ / ₁₆	89	90	89
	5	4½	4 ⁵ / ₈	114	117	114
	6	5½	5 ⁵ / ₈	140	143	140
	8	7¼	7½	184	190	184
	10	9¼	9½	235	241	235
	12	11¼	11½	286	292	286
	1¼ x 2, etc.	1 x 1½	1 ¹ / ₃₂ x 1 ⁹ / ₁₆	25 x 38	26 x 40	25 x 38
	1½ x 2, etc.	1¼ x 1½	1 ⁹ / ₃₂ x 1 ⁹ / ₁₆	32 x 38	33 x 40	32 x 38

Table 11
Maximum Spans for Built-up Floor Beams Supporting not more than One Floor¹

		Maximum Span, ft.-in. (m) ^{2, 3}									
		Size of Built-up Beam, in. (mm)									
Commercial Designation	Grade	Supported Length, ft. (m) ^{4, 5}	2 x 8 (38 x 184)			2 x 10 (38 x 235)			2 x 12 (38 x 286)		
			3-ply	4-ply	5-ply	3-ply	4-ply	5-ply	3-ply	4-ply	5-ply
Douglas fir - larch (includes	No. 1	8	9-9	11-3	12-7	11-11	13-9	15-4	13-10	15-11	17-10
	No. 2	10	8-8	10-1	11-3	10-8	12-3	13-9	12-4	14-3	15-11
Douglas fir and western larch)		(3.0)	(2.67)	(3.09)	(3.45)	(3.27)	(3.78)	(4.22)	(3.79)	(4.38)	(4.90)
		12	7-11	9-2	10-3	9-9	11-3	12-7	11-3	13-0	14-7
		(3.6)	(2.44)	(2.82)	(3.15)	(2.98)	(3.45)	(3.85)	(3.46)	(4.00)	(4.47)
		14	7-4	8-6	9-6	9-0	10-5	11-7	10-5	12-1	13-6
		(4.2)	(2.26)	(2.61)	(2.92)	(2.76)	(3.19)	(3.57)	(3.21)	(3.70)	(4.14)
		16	6-11	7-11	8-11	8-5	9-9	10-10	9-9	11-3	12-7
		(4.8)	(2.11)	(2.44)	(2.73)	(2.59)	(2.98)	(3.34)	(3.00)	(3.46)	(3.87)
	18	6-6	7-6	8-5	7-11	9-2	10-3	9-2	10-8	11-11	
	(5.4)	(1.99)	(2.30)	(2.57)	(2.44)	(2.81)	(3.15)	(2.83)	(3.27)	(3.65)	
	20	6-2	7-1	7-11	7-6	8-8	9-9	8-9	10-1	11-3	
	(6.0)	(1.89)	(2.18)	(2.44)	(2.31)	(2.67)	(2.98)	(2.68)	(3.10)	(3.46)	

Table 11 (continued)
Maximum Spans for Built-up Floor Beams Supporting not more than One Floor¹

Commercial Designation		Supported Length, ft. (m) ^{4, 5}	Maximum Span, ft.-in. (m) ^{2, 3}								
			Size of Built-up Beam, in. (mm)								
			2 x 8 (38 x 184)			2 x 10 (38 x 235)			2 x 12 (38 x 286)		
Grade			3-ply	4-ply	5-ply	3-ply	4-ply	5-ply	3-ply	4-ply	5-ply
Hem - fir (includes western hemlock and amabilis fir)	No. 1	8	10-2	11-9	13-2	12-6	14-5	16-1	14-6	16-9	18-8
		(2.4)	(3.14)	(3.62)	(4.05)	(3.83)	(4.43)	(4.95)	(4.45)	(5.14)	(5.74)
	No. 2	10	9-2	10-6	11-9	11-2	12-11	14-5	12-11	14-11	16-9
		(3.0)	(2.80)	(3.24)	(3.62)	(3.43)	(3.96)	(4.43)	(3.98)	(4.60)	(5.14)
		12	8-4	9-7	10-9	10-2	11-9	13-2	11-10	13-8	15-3
		(3.6)	(2.56)	(2.96)	(3.31)	(3.13)	(3.61)	(4.04)	(3.63)	(4.19)	(4.69)
		14	7-9	8-11	10-0	9-5	10-11	12-2	10-11	12-8	14-2
		(4.2)	(2.37)	(2.74)	(3.06)	(2.90)	(3.35)	(3.74)	(3.36)	(3.88)	(4.34)
		16	7-3	8-4	9-4	8-10	10-2	11-5	10-3	11-10	13-3
	(4.8)	(2.22)	(2.56)	(2.86)	(2.71)	(3.13)	(3.50)	(3.15)	(3.63)	(4.06)	
	18	6-10	7-10	8-9	8-4	9-7	10-9	9-8	11-2	12-6	
	(5.4)	(2.09)	(2.41)	(2.70)	(2.56)	(2.95)	(3.30)	(2.97)	(3.42)	(3.83)	
	20	6-5	7-5	8-4	7-11	9-1	10-2	9-2	10-7	11-10	
	(6.0)	(1.98)	(2.29)	(2.56)	(2.42)	(2.80)	(3.13)	(2.81)	(3.25)	(3.63)	
Spruce - pine - fir (includes spruce [all species except coast sitka spruce], jackpine, lodgepole pine, balsam fir and alpine fir)	No. 1	8	10-7	12-2	13-8	12-11	14-11	16-8	15-0	17-4	19-4
		(2.4)	(3.25)	(3.75)	(4.19)	(3.97)	(4.59)	(5.13)	(4.61)	(5.32)	(5.95)
	No. 2	10	9-5	10-11	12-2	11-7	13-4	14-11	13-5	15-6	17-4
		(3.0)	(2.90)	(3.35)	(3.75)	(3.55)	(4.10)	(4.59)	(4.12)	(4.76)	(5.32)
		12	8-8	10-0	11-2	10-7	12-2	13-7	12-3	14-2	15-10
		(3.6)	(2.65)	(3.06)	(3.42)	(3.24)	(3.74)	(4.19)	(3.76)	(4.34)	(4.86)
		14	8-0	9-3	10-4	9-9	11-3	12-7	11-4	13-1	14-8
		(4.2)	(2.45)	(2.83)	(3.17)	(3.00)	(3.47)	(3.88)	(3.48)	(4.02)	(4.50)
		16	7-6	8-8	9-8	9-2	10-7	11-10	10-7	12-3	13-8
	(4.8)	(2.30)	(2.65)	(2.96)	(2.81)	(3.24)	(3.63)	(3.26)	(3.76)	(4.21)	
	18	7-1	8-2	9-1	8-7	9-11	11-1	10-0	11-7	12-11	
	(5.4)	(2.17)	(2.50)	(2.80)	(2.65)	(3.06)	(3.42)	(3.07)	(3.55)	(3.97)	
	20	6-8	7-9	8-8	8-2	9-5	10-7	9-6	10-11	12-3	
	(6.0)	(2.05)	(2.37)	(2.65)	(2.51)	(2.90)	(3.24)	(2.91)	(3.37)	(3.76)	
Northern species (includes any Canadian species covered by the NLGA Standard Grading Rules)	No. 1	8	8-6	9-10	10-11	10-4	12-0	13-5	12-0	13-11	15-6
		(2.4)	(2.61)	(3.01)	(3.36)	(3.19)	(3.68)	(4.11)	(3.70)	(4.27)	(4.77)
	No. 2	10	7-7	8-9	9-10	9-3	10-9	12-0	10-9	12-5	13-11
		(3.0)	(2.33)	(2.69)	(3.01)	(2.85)	(3.29)	(3.68)	(3.31)	(3.82)	(4.27)
		12	6-11	8-0	8-11	8-6	9-9	10-11	9-10	11-4	12-8
		(3.6)	(2.13)	(2.46)	(2.75)	(2.60)	(3.00)	(3.36)	(3.02)	(3.49)	(3.90)
		14	6-5	7-5	8-3	7-10	9-1	10-1	9-1	10-6	11-9
		(4.2)	(1.97)	(2.27)	(2.54)	(2.41)	(2.78)	(3.11)	(2.80)	(3.23)	(3.61)
		16	6-0	6-11	7-9	7-4	8-6	9-6	8-6	9-10	11-0
	(4.8)	(1.84)	(2.13)	(2.38)	(2.25)	(2.60)	(2.91)	(2.61)	(3.02)	(3.38)	
	18	5-8	6-6	7-4	6-11	8-0	8-11	8-0	9-3	10-4	
	(5.4)	(1.74)	(2.01)	(2.24)	(2.12)	(2.45)	(2.74)	(2.47)	(2.85)	(3.18)	
	20	5-4	6-2	6-11	6-7	7-7	8-6	7-7	8-9	9-10	
	(6.0)	(1.65)	(1.90)	(2.13)	(2.02)	(2.33)	(2.60)	(2.34)	(2.70)	(3.02)	

Notes to Table 11

1. Spans apply only where the floors serve residential areas.
2. Spans are clear spans between supports. For total span, add two bearing lengths.
3. Provide minimum 3½ in. (89 mm) of bearing.
4. Supported length means half the sum of the joist spans on both sides of the beam.
5. Straight interpolation may be used for other supported lengths.

Table 12
Maximum Spans for Built-up Floor Beams Supporting not more than Two Floors¹

		Maximum Span, ft.-in. (m) ^{2, 3}									
		Size of Built-up Beam, in. (mm)									
Commercial Designation	Grade	Supported Length, ft. (m) ^{4, 5}	2 x 8 (38 x 184)			2 x 10 (38 x 235)			2 x 12 (38 x 286)		
			3-ply	4-ply	5-ply	3-ply	4-ply	5-ply	3-ply	4-ply	5-ply
Douglas fir - larch (includes Douglas fir and western larch)	No. 1	8	7-5	8-6	9-6	9-0	10-5	11-8	10-6	12-1	13-6
		(2.4)	(2.27)	(2.62)	(2.93)	(2.77)	(3.20)	(3.58)	(3.22)	(3.72)	(4.16)
	No. 2	10	6-7	7-8	8-6	8-1	9-4	10-5	9-4	10-10	12-1
		(3.0)	(2.03)	(2.34)	(2.62)	(2.48)	(2.86)	(3.20)	(2.88)	(3.32)	(3.72)
		12	6-0	7-0	7-9	7-4	8-6	9-6	8-7	9-11	11-1
		(3.6)	(1.85)	(2.14)	(2.39)	(2.26)	(2.62)	(2.92)	(2.63)	(3.03)	(3.39)
		14	5-7	6-5	7-2	6-10	7-11	8-10	7-11	9-2	10-3
		(4.2)	(1.71)	(1.98)	(2.21)	(2.10)	(2.42)	(2.71)	(2.43)	(2.81)	(3.14)
		16	5-3	6-0	6-9	6-5	7-4	8-3	7-5	8-7	9-7
		(4.8)	(1.60)	(1.85)	(2.07)	(1.96)	(2.26)	(2.53)	(2.28)	(2.63)	(2.94)
	18	4-11	5-8	6-4	6-0	6-11	7-9	7-0	8-1	9-0	
	(5.4)	(1.51)	(1.75)	(1.95)	(1.85)	(2.14)	(2.39)	(2.15)	(2.48)	(2.77)	
	20	4-8	5-5	6-0	5-9	6-7	7-4	6-8	7-8	8-7	
	(6.0)	(1.43)	(1.66)	(1.85)	(1.75)	(2.03)	(2.26)	(2.04)	(2.35)	(2.63)	
Hem - fir (includes western hemlock and amabilis fir)	No. 1	8	7-9	8-11	10-0	9-6	10-11	12-3	11-0	12-8	14-2
		(2.4)	(2.38)	(2.75)	(3.07)	(2.91)	(3.36)	(3.76)	(3.38)	(3.90)	(4.36)
	No. 2	10	6-11	8-0	8-11	8-6	9-9	10-11	9-10	11-4	12-8
		(3.0)	(2.13)	(2.46)	(2.75)	(2.60)	(3.00)	(3.36)	(3.02)	(3.49)	(3.90)
		12	6-4	7-4	8-2	7-9	8-11	10-0	8-11	10-4	11-7
		(3.6)	(1.94)	(2.24)	(2.51)	(2.38)	(2.74)	(3.07)	(2.75)	(3.18)	(3.56)
		14	5-10	6-9	7-7	7-0	8-3	9-3	7-11	9-7	10-9
		(4.2)	(1.80)	(2.08)	(2.32)	(2.15)	(2.54)	(2.84)	(2.44)	(2.95)	(3.29)
		16	5-3	6-4	7-1	6-4	7-9	8-8	7-2	8-11	10-0
		(4.8)	(1.63)	(1.94)	(2.17)	(1.94)	(2.38)	(2.66)	(2.20)	(2.75)	(3.08)
	18	4-10	6-0	6-8	5-9	7-2	8-2	6-7	8-1	9-5	
	(5.4)	(1.49)	(1.83)	(2.05)	(1.78)	(2.22)	(2.50)	(2.02)	(2.50)	(2.91)	
	20	4-6	5-7	6-4	5-4	6-7	7-9	6-1	7-6	8-11	
	(6.0)	(1.37)	(1.71)	(1.94)	(1.65)	(2.04)	(2.38)	(1.88)	2.31	(2.75)	
Spruce - pine - fir (includes spruce [all species except coast sitka spruce], jack pine, lodgepole pine, balsam fir and alpine fir)	No. 1	8	8-0	9-3	10-4	9-10	11-4	12-8	11-5	13-2	14-8
		(2.4)	(2.46)	(2.85)	(3.18)	(3.01)	(3.48)	(3.89)	(3.50)	(4.04)	(4.51)
	No. 2	10	7-2	8-3	9-3	8-9	10-2	11-4	10-2	11-9	13-2
		(3.0)	(2.20)	(2.55)	(2.85)	(2.70)	(3.11)	(3.48)	(3.13)	(3.61)	(4.04)
		12	6-7	7-7	8-5	8-0	9-3	10-4	9-4	10-9	12-0
		(3.6)	(2.01)	(2.32)	(2.60)	(2.46)	(2.84)	(3.18)	(2.85)	(3.30)	(3.69)
		14	6-1	7-0	7-10	7-5	8-7	9-7	8-7	9-11	11-1
		(4.2)	(1.86)	(2.15)	(2.40)	(2.28)	(2.63)	(2.94)	(2.64)	(3.05)	(3.41)
		16	5-8	6-7	7-4	6-10	8-0	8-11	7-9	9-4	10-5
		(4.8)	(1.74)	(2.01)	(2.25)	(2.11)	(2.46)	(2.75)	(2.38)	(2.85)	(3.19)
	18	5-3	6-2	6-11	6-3	7-7	8-5	7-1	8-9	9-10	
	(5.4)	(1.61)	(1.90)	(2.12)	(1.93)	(2.32)	(2.59)	(2.18)	(2.69)	(3.01)	
	20	4-10	5-10	6-7	5-9	7-2	8-0	6-7	8-1	9-4	
	(6.0)	(1.49)	(1.80)	(2.01)	(1.78)	(2.20)	(2.46)	(2.02)	(2.50)	(2.85)	

Table 14 (continued)
Maximum Spans for Glue-laminated Floor Beams — 2of-E Grade¹

Number of Floors Supported	Beam Width, ft. in. (mm)	Supported Length, 9 (m) ^{6, 7}	Maximum Span, ft.-in. (m) ^{2 to 5}								
			Beam Depth, in. (mm)								
			10½ (228)	12 (266)	13½ (304)	15 (342)	16½ (380)	18 (418)	(456)		
2	5 (130)	8	13-7 (4.18)	15-10 (4.88)	18-2 (5.57)	20-5 (6.27)	22-8 (6.97)	24-11 (7.66)	27-3 (8.36)		
		10	12-2 (3.74)	14-2 (4.36)	16-3 (4.99)	18-3 (5.61)	20-3 (6.23)	22-4 (6.85)	24-4 (7.48)		
		12	11-1 (3.6)	13-0 (3.98)	14-10 (4.55)	16-8 (5.12)	18-6 (5.69)	20-4 (6.26)	22-3 (6.83)		
		14	10-3 (4.2)	12-0 (3.69)	13-9 (4.21)	15-5 (4.74)	17-2 (5.27)	18-10 (5.79)	20-7 (6.32)		
		16	9-7 (4.8)	11-3 (3.45)	12-10 (3.94)	14-5 (4.43)	16-0 (4.93)	17-8 (5.42)	19-3 (5.91)		
		18	9-1 (5.4)	10-7 (3.25)	12-1 (3.72)	13-7 (4.18)	15-1 (4.64)	16-8 (5.11)	18-2 (5.57)		
		20	8-7 (6.0)	10-0 (3.08)	11-6 (3.53)	12-11 (3.97)	14-4 (4.41)	15-9 (4.85)	17-3 (5.29)		
		3	3 (80)	8	8-11 (2.75)	10-5 (3.21)	11-11 (3.66)	13-5 (4.12)	14-11 (4.58)	16-5 (5.04)	17-11 (5.50)
				10	8-0 (3.0)	9-4 (2.87)	10-8 (3.28)	12-0 (3.69)	13-4 (4.10)	14-8 (4.51)	16-0 (4.92)
				12	7-4 (3.6)	8-6 (2.62)	9-9 (2.99)	10-11 (3.37)	12-2 (3.74)	13-5 (4.11)	14-7 (4.49)
14	6-9 (4.2)			7-11 (2.42)	9-0 (2.77)	10-2 (3.12)	11-3 (3.46)	12-5 (3.81)	13-6 (4.15)		
16	6-4 (4.8)			7-5 (2.27)	8-5 (2.59)	9-6 (2.91)	10-6 (3.24)	11-7 (3.56)	12-8 (3.89)		
18	6-0 (5.4)			6-11 (2.14)	7-11 (2.44)	8-11 (2.75)	9-11 (3.05)	10-11 (3.36)	11-11 (3.66)		
20	5-8 (6.0)			6-7 (2.03)	7-7 (2.32)	8-6 (2.61)	9-5 (2.90)	10-4 (3.19)	11-4 (3.48)		
3	5 (130)			8	11-5 (3.50)	13-4 (4.09)	15-2 (4.67)	17-1 (5.25)	19-0 (5.84)	20-11 (6.42)	22-10 (7.01)
				10	10-2 (3.0)	11-11 (3.66)	13-7 (4.18)	15-4 (4.70)	17-0 (5.22)	18-8 (5.74)	20-5 (6.27)
				12	9-4 (3.6)	10-10 (3.34)	12-5 (3.81)	14-0 (4.29)	15-6 (4.77)	17-1 (5.24)	18-7 (5.72)
		14	8-7 (4.2)	10-1 (3.09)	11-6 (3.53)	12-11 (3.97)	14-4 (4.41)	15-10 (4.85)	17-3 (5.30)		
		16	8-1 (4.8)	9-5 (2.89)	10-9 (3.30)	12-1 (3.72)	13-5 (4.13)	14-9 (4.54)	16-1 (4.95)		
		18	7-7 (5.4)	8-10 (2.72)	10-2 (3.11)	11-5 (3.50)	12-8 (3.89)	13-11 (4.28)	15-2 (4.67)		
		20	7-3 (6.0)	8-5 (2.58)	9-7 (2.95)	10-10 (3.32)	12-0 (3.69)	13-3 (4.06)	14-5 (4.43)		

Notes to Table 14

1. Spans apply only where the floors serve residential areas.
2. Spans are valid for glue-laminated timber conforming to CAN/CSA-0122-M and CAN/CSA-0177-M.
3. Spans are clear spans between supports. For total span, add two bearing lengths.
4. Provide a minimum bearing length of 3½ in. (89 mm).
5. Top edge of beam assumed to be fully laterally supported by joists.
6. Supported length means half the sum of the joist spans on both sides of the beam.
7. Straight interpolation may be used for other supported lengths.

APPENDIX — TABLES

Table 15
Maximum Spans for Floor Joists — General Cases^{1, 2}

		Maximum Span, ft.-in. (m)									
		Joist Spacing, in. (mm)									
Commercial Designation	Grade	Joist Size, ft. (m)	With Strapping			With Bridging			With Strapping and Bridging		
			12 (300)	16 (400)	24 (600)	12 (300)	16 (400)	24 (600)	12 (300)	16 (400)	24 (600)
Douglas fir - larch (includes Douglas fir and western larch)	No. 1	2x6 (38x140)	10-2 (3.09)	9-7 (2.91)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)
	No. 2	2x8 (38x184)	12-2 (3.71)	11-7 (3.53)	11-0 (3.36)	13-1 (4.00)	12-4 (3.76)	11-3 (3.44)	13-9 (4.19)	12-10 (3.90)	11-3 (3.44)
		2x10 (38x235)	14-4 (4.38)	13-8 (4.16)	13-0 (3.96)	15-3 (4.66)	14-4 (4.38)	13-6 (4.11)	15-10 (4.84)	14-10 (4.51)	13-10 (4.20)
		2x12 (38x286)	16-5 (4.99)	15-7 (4.75)	14-10 (4.52)	17-2 (5.26)	16-2 (4.94)	15-3 (4.65)	17-10 (5.43)	16-7 (5.06)	15-6 (4.72)
Hem - fir (includes western hemlock and amabilis fir)	No. 1	2x6 (38x140)	10-2 (3.09)	9-7 (2.91)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)
	No. 2	2x8 (38x184)	12-2 (3.71)	11-7 (3.53)	11-0 (3.36)	13-1 (4.00)	12-4 (3.76)	11-3 (3.44)	13-9 (4.19)	12-10 (3.90)	11-3 (3.44)
		2x10 (38x235)	14-4 (4.38)	13-8 (4.16)	13-0 (3.96)	15-3 (4.66)	14-4 (4.38)	13-6 (4.11)	15-10 (4.84)	14-10 (4.51)	13-10 (4.20)
		2x12 (38x286)	16-5 (4.99)	15-7 (4.75)	14-10 (4.52)	17-2 (5.26)	16-2 (4.94)	15-3 (4.65)	17-10 (5.43)	16-7 (5.06)	15-6 (4.72)
Spruce - pine - fir (includes spruce [all species except coast sitka spruce], jack pine, lodgepole pine, balsam fir and alpine fir)	No. 1	2x6 (38x140)	9-7 (2.92)	8-11 (2.71)	8-2 (2.49)	10-4 (3.14)	9-4 (2.85)	8-2 (2.49)	10-4 (3.14)	9-4 (2.85)	8-2 (2.49)
	No. 2	2x8 (38x184)	11-7 (3.54)	11-0 (3.36)	10-6 (3.20)	12-5 (3.81)	11-9 (3.58)	10-9 (3.27)	13-1 (3.99)	12-2 (3.72)	10-9 (3.27)
		2x10 (38x235)	13-8 (4.17)	13-0 (3.96)	12-4 (3.77)	14-6 (4.44)	13-8 (4.17)	12-10 (3.92)	15-1 (4.60)	14-1 (4.29)	13-2 (4.00)
		2x12 (38x286)	15-7 (4.75)	14-10 (4.52)	14-1 (4.30)	16-4 (5.01)	15-5 (4.71)	14-6 (4.42)	17-0 (5.17)	15-10 (4.82)	14-9 (4.49)
Northern species (includes any Canadian species covered by the NLGA Standard Grading Rules)	No. 1	2x6 (38x140)	8-3 (2.51)	7-8 (2.33)	7-1 (2.16)	9-3 (2.83)	8-5 (2.57)	7-5 (2.25)	9-4 (2.83)	8-5 (2.57)	7-5 (2.25)
	No. 2	2x8 (38x184)	10-6 (3.19)	10-0 (3.04)	9-4 (2.84)	11-3 (3.44)	10-7 (3.23)	9-8 (2.96)	11-10 (3.60)	11-0 (3.36)	9-8 (2.96)
		2x10 (38x235)	12-4 (3.76)	11-9 (3.58)	11-2 (3.41)	13-1 (4.01)	12-4 (3.77)	11-7 (3.54)	13-8 (4.16)	12-9 (3.88)	11-10 (3.62)
		2x12 (38x286)	14-1 (4.29)	13-5 (4.08)	12-9 (3.88)	14-9 (4.53)	13-11 (4.25)	13-1 (4.00)	15-4 (4.67)	14-4 (4.35)	13-4 (4.06)

Note to Table 15

1. Spans apply only where the floors serve residential areas.
2. Subfloor must comply with minimum requirements from tables 17 and 18.

Table 16
Maximum Spans for Floor Joists — Special Cases^{1, 2}

		Maximum Span, ft.-in. (m)									
		Joists with Ceilings Attached to Wood Furring						Joists with Concrete Topping			
		Joist Spacing, in. (mm)						Joist Spacing, in (mm)			
Commercial Designation	Grade	Joist Size, ft. (m)	Without Bridging			With Bridging			With or Without Bridging ³		
			12 (300)	16 (400)	24 (600)	12 (300)	16 (400)	24 (600)	12 (300)	16 (400)	24 (600)
Douglas fir — larch (includes Douglas fir and western larch)	No. 1	2x6 (38x140)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-5 (2.55)
	No. 2	2x8 (38x184)	13-4 (4.06)	12-7 (3.83)	11-3 (3.44)	14-2 (4.33)	12-11 (3.93)	11-3 (3.44)	14-2 (4.33)	12-6 (3.81)	10-2 (3.11)
		2x10 (38x235)	15-8 (4.78)	14-9 (4.50)	13-6 (4.11)	17-2 (5.24)	16-4 (4.98)	14-2 (4.31)	17-8 (5.37)	15-3 (4.65)	12-6 (3.80)
		2x12 (38x286)	17-10 (5.44)	16-10 (5.12)	15-4 (4.68)	19-5 (5.93)	18-6 (5.64)	16-5 (5.00)	20-6 (6.24)	17-9 (5.40)	14-6 (4.41)
Hem — fir (includes western hemlock and amabilis fir)	No. 1	2x6 (38x140)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)	10-10 (3.29)	9-10 (2.99)	8-7 (2.62)
	No. 2	2x8 (38x184)	13-4 (4.06)	12-7 (3.83)	11-3 (3.44)	14-2 (4.33)	12-11 (3.93)	11-3 (3.44)	14-2 (4.33)	12-11 (3.93)	10-8 (3.26)
		2x10 (38x235)	15-8 (4.78)	14-9 (4.50)	13-6 (4.11)	17-2 (5.24)	16-4 (4.98)	14-5 (4.39)	18-2 (5.53)	16-0 (4.88)	13-1 (3.99)
		2x12 (38x286)	17-10 (5.44)	16-10 (5.12)	15-4 (4.68)	19-5 (5.93)	18-6 (5.64)	17-3 (5.25)	21-6 (6.54)	18-7 (5.66)	15-2 (4.63)
Spruce — pine — fir (includes spruce [all species except coast sitka spruce], jack pine, lodgepole pine, balsam fir and alpine fir)	No. 1	2x6 (38x140)	10-4 (3.14)	9-4 (2.85)	8-2 (2.49)	10-4 (3.14)	9-4 (2.85)	8-2 (2.49)	10-4 (3.14)	9-4 (2.85)	8-2 (2.49)
	No. 2	2x8 (38x184)	12-8 (3.87)	11-11 (3.64)	10-9 (3.27)	13-6 (4.12)	12-4 (3.75)	10-9 (3.27)	13-6 (4.12)	12-4 (3.75)	10-9 (3.27)
		2x10 (38x235)	14-11 (4.55)	14-1 (4.28)	12-10 (3.91)	16-4 (4.99)	15-7 (4.75)	13-9 (4.18)	17-3 (5.27)	15-8 (4.79)	13-7 (4.13)
		2x12 (38x286)	17-0 (5.18)	16-0 (4.88)	14-7 (4.46)	18-6 (5.65)	17-7 (5.37)	16-7 (5.06)	20-5 (6.23)	19-1 (5.81)	15-9 (4.79)
Northern species (includes any Canadian species covered by the NLGA Standard Grading Rules)	No. 1	2x6 (38x140)	9-4 (2.83)	8-5 (2.57)	7-5 (2.25)	9-4 (2.83)	8-5 (2.57)	7-5 (2.25)	9-4 (2.83)	8-5 (2.57)	7-4 (2.23)
	No. 2	2x8 (38x184)	11-6 (3.50)	10-10 (3.29)	9-8 (2.96)	12-3 (3.72)	11-1 (3.38)	9-8 (2.96)	12-3 (3.72)	10-11 (3.32)	8-11 (2.71)
		2x10 (38x235)	13-6 (4.11)	12-8 (3.87)	11-7 (3.54)	14-9 (4.51)	14-1 (4.29)	12-4 (3.76)	15-4 (4.69)	13-4 (4.06)	10-10 (3.31)
		2x12 (38x286)	15-4 (4.68)	14-5 (4.40)	13-2 (4.03)	16-9 (5.10)	15-11 (4.85)	14-4 (4.36)	17-10 (5.44)	15-5 (4.71)	12-7 (3.84)

Notes to Table 16

1. Spans apply only where the floors serve residential areas.
2. Subfloor must comply with minimum requirements from tables 17 and 18.
3. No bridging is assumed for spans for floor joists with concrete topping.

Table 17
Minimum Thickness of Subflooring

	Minimum Subflooring Thickness, in. (mm), for Maximum Joist Spacing at		
	16 (400)	20 (500)	24 (600)
Plywood and OSB, O-2 grade	5/8 (15.5)	5/8 (15.5)	23/32 (18.5)
OSB, O-1 grade, and waferboard, R-1 Grade	5/8 (15.9)	5/8 (15.9)	3/4 (19.0)
Particleboard	5/8 (15.9)	3/4 (19.0)	1 (25.4)
Lumber	11/16 (17.0)	3/4 (19.0)	3/4 (19.0)

Table 18
Sheathing and Subfloor Attachment

Element	Minimum Length of Fasteners for Sheathing and Subfloor Attachment, in. (mm)				Minimum No. or Maximum Spacing of Fasteners
	Common or Spiral Nails	Ring Thread Nails or Screws	Roofing Nails	Staples	
Plywood, OSB or waferboard up to 3/8 in. (10 mm) thick	2 (51)	1 3/4 (45)	N/A	1 1/2 (38)	
Plywood, OSB or waferboard 3/8 in. (10 mm) to 1 3/16 in. (20 mm) thick	2 (51)	1 3/4 (45)	N/A	2 (51)	
Plywood, OSB or waferboard over 1 3/16 in. (20 mm) thick	2 1/4 (57)	2 (51)	N/A	N/A	6 in. (150 mm) o.c. along edges and 12 in. (300 mm) o.c. along intermediate supports
Fibreboard sheathing up to 1/2 in. (13 mm) thick	N/A	N/A	1 3/4 (44)	1 1/8 (28)	
Gypsum sheathing up to 1/2 in. (13mm) thick	N/A	N/A	1 3/4 (44)	N/A	
Board lumber 8 in. (184 mm) or less wide	2 (51)	1 3/4 (45)	N/A	2 (51)	2 per support
Board lumber more than 8 in. (184 mm) wide	2 (51)	1 3/4 (45)	N/A	2 (51)	3 per support

APPENDIX — TABLES

Table 21 (continued)
Maximum Spans for Spruce — Pine — Fir Lintels — No. 1 or No. 2 Grade — Non-Structural Sheathing

Lintel Supporting	Lintel Size, in. (mm) ⁴ , 2-ply	Maximum Span, ft.-in. (m) ^{1 to 3}					Interior Walls
		Exterior Walls					
		Specified Snow Load, psf (kPa)					
		20.9 (1.0)	31.3 (1.5)	41.8 (2.0)	52.2 (2.5)	62.7 (3.0)	
Roof, ceiling and 3 storeys ⁵	2 x 4 (38 x 89)	2-11 (0.88)	2-9 (0.83)	2-8 (0.80)	2-6 (0.77)	2-5 (0.74)	1-11 (0.59)
	2 x 6 (38 x 140)	4-1 (1.25)	3-11 (1.19)	3-9 (1.14)	3-6 (1.08)	3-4 (1.02)	2-8 (0.81)
	2 x 8 (38 x 184)	5-0 (1.52)	4-9 (1.44)	4-5 (1.35)	4-2 (1.27)	4-0 (1.21)	3-2 (0.97)
	2 x 10 (38 x 235)	6-1 (1.86)	5-8 (1.73)	5-4 (1.62)	5-0 (1.53)	4-9 (1.45)	3-10 (1.17)
	2 x 12 (38 x 286)	6-11 (2.11)	6-5 (1.96)	6-0 (1.84)	5-9 (1.74)	5-5 (1.66)	4-5 (1.35)

Notes to Table 21

- Spans are calculated based on a maximum supported joist or rafter length of 16 ft., 0 in. (4.9 m) and a maximum supported truss length of 32 ft., 0 in. (9.8 m). Spans may be increased by 5% for supported lengths not more than 14 ft., 1 in. (4.3 m) or by 10% for supported lengths not more than 12 ft., 1 in. (3.7 m). Supported length means half the span of the longest supported members.
- If floor joists span the full width of the building without support, lintel spans shall be reduced by 15% for "Roof, ceiling and 1 storey," by 20% for "Roof, ceiling and 2 storeys," and by 25% for "Roof, ceiling and 3 storeys."
- For ends of lintels fully supported by walls, provide minimum 1½ in. (38 mm) of bearing for lintel spans up to 9 ft., 10 in. (3 m) or minimum 3 in. (76 mm) of bearing for lintel spans greater than 9 ft., 10 in. (3 m).
- A single piece of 3½ in. (89 mm)-thick lumber may be used in lieu of 2 pieces of 1½ in. (38 mm)-thick lumber on edge.
- Spans apply only where the floors serve residential areas.

Table 22
Maximum Spans for Spruce — Pine — Fir Lintels — No. 1 or No. 2 Grade — Structural Sheathing

Lintel Supporting	Lintel Size, in. (mm) ⁵ , 2-ply	Maximum Span, ft.-in. (m) ^{2 to 4}				
		Exterior Walls				
		Specified Snow Load, psf (kPa)				
		20.9 (1.0)	31.3 (1.5)	41.8 (2.0)	52.2 (2.5)	62.7 (3.0)
Roof and ceiling only	2 x 4 (38 x 89)	4-7 (1.40)	4-0 (1.23)	3-8 (1.11)	3-5 (1.03)	3-2 (0.97)
	2 x 6 (38 x 140)	7-3 (2.21)	6-4 (1.93)	5-8 (1.73)	5-2 (1.57)	4-9 (1.45)
	2 x 8 (38 x 184)	9-0 (2.75)	7-9 (2.36)	6-11 (2.10)	6-4 (1.92)	5-10 (1.77)
	2 x 10 (38 x 235)	11-0 (3.36)	9-6 (2.89)	8-5 (2.57)	7-8 (2.34)	7-1 (2.16)
	2 x 12 (38 x 286)	12-10 (3.90)	11-0 (3.35)	9-10 (2.99)	8-11 (2.72)	8-3 (2.51)

APPENDIX — TABLES

Table 22 (continued)
Maximum Spans for Spruce — Pine — Fir Lintels — No. 1 or No. 2 Grade —
Structural Sheathing

Lintel Supporting	Lintel Size, in. (mm) ⁵ , 2-ply	Maximum Span, ft.-in. (m) ^{2 to 4}				
		Exterior Walls				
		Specified Snow Load, psf (kPa)				
		20.9 (1.0)	31.3 (1.5)	41.8 (2.0)	52.2 (2.5)	62.7 (3.0)
Roof, ceiling and 1 storey ⁶	2 x 4 (38 x 89)	3-10 (1.16)	3-6 (1.08)	3-4 (1.01)	3-2 (0.96)	3-0 (0.92)
	2 x 6 (38 x 140)	5-9 (1.74)	5-3 (1.60)	4-10 (1.48)	4-7 (1.39)	4-4 (1.32)
	2 x 8 (38 x 184)	6-11 (2.12)	6-5 (1.95)	5-11 (1.81)	5-6 (1.69)	5-3 (1.60)
	2 x 10 (38 x 235)	8-6 (2.59)	7-10 (2.38)	7-3 (2.21)	6-9 (2.07)	6-4 (1.93)
	2 x 12 (38 x 286)	9-10 (3.01)	9-1 (2.76)	8-5 (2.56)	7-10 (2.38)	7-2 (2.19)
Roof, ceiling and 2 storeys ⁶	2 x 4 (38 x 89)	3-7 (1.09)	3-5 (1.03)	3-2 (0.97)	3-0 (0.92)	2-11 (0.88)
	2 x 6 (38 x 140)	5-1 (1.56)	4-10 (1.47)	4-7 (1.39)	4-4 (1.32)	4-2 (1.26)
	2 x 8 (38 x 184)	6-3 (1.90)	5-10 (1.79)	5-6 (1.69)	5-3 (1.61)	4-11 (1.51)
	2 x 10 (38 x 235)	7-8 (2.33)	7-2 (2.19)	6-9 (2.07)	6-4 (1.94)	5-11 (1.81)
	2 x 12 (38 x 286)	8-10 (2.70)	8-4 (2.54)	7-9 (2.37)	7-3 (2.20)	6-9 (2.05)
Roof, ceiling and 3 storeys ⁶	2 x 4 (38 x 89)	3-4 (1.02)	3-2 (0.97)	3-1 (0.93)	2-11 (0.89)	2-10 (0.86)
	2 x 6 (38 x 140)	4-9 (1.46)	4-7 (1.39)	4-4 (1.33)	4-2 (1.28)	4-0 (1.23)
	2 x 8 (38 x 184)	5-10 (1.78)	5-6 (1.69)	5-4 (1.62)	5-1 (1.54)	4-9 (1.46)
	2 x 10 (38 x 235)	7-1 (2.17)	6-9 (2.07)	6-5 (1.96)	6-0 (1.84)	5-9 (1.74)
	2 x 12 (38 x 286)	8-3 (2.52)	7-10 (2.38)	7-3 (2.22)	6-10 (2.09)	6-6 (1.98)

Notes to Table 22

1. A minimum 3/8 in. (9.5 mm)-thick structural panel conforming to CSA 0121-M, CSA 0151-M, CAN/CSA-0325.0 or CAN/CSA-0437.0 shall be fastened with at least 2 rows of fasteners conforming to Table 19 to the exterior face of the lintel, and a single row to the top plates and studs.
2. Spans are calculated based on a maximum supported joist or rafter length of 16 ft. (4.9 m) and a maximum supported truss length of 32 ft. (9.8 m). Spans may be increased by 5% for supported lengths not more than 14 ft., 1 in. (4.3 m) or by 10% for supported lengths not more than 12 ft., 1 in. (3.7 m). Supported length means half the span of the longest supported members.
3. If floor joists span the full width of the building without support, lintel spans shall be reduced by 15% for "Roof, ceiling and 1 storey," by 20% for "Roof, ceiling and 2 storeys," and by 25% for "Roof, ceiling and 3 storeys."
4. For ends of lintels fully supported by walls, provide minimum 1 1/2 in. (38 mm) of bearing for lintel spans up to 9 ft., 10 in. (3 m) or minimum 3 in. (76 mm) of bearing for lintel spans greater than 9 ft., 10 in. (3 m).
5. A single piece of 3 1/2 in. (89 mm)-thick lumber may be used in lieu of 2 pieces of 1 1/2 in. (38 mm)-thick lumber on edge.
6. Spans apply only where the floors serve residential areas.

APPENDIX — TABLES

Table 23
Maximum Spans for Built-up Lintels — Roof and Ceiling Load Only —
No. 1 or No. 2 Grade

Commercial Designation	Lintel Size, in. (mm)		Maximum Span, ft.-in. (m) ^{1, 2}				
			Specified Snow Load, psf (kPa)				
			20.9 (1.0)	31.3 (1.5)	41.8 (2.0)	52.2 (2.5)	62.7 (3.0)
Spruce — pine — fir (includes spruce [all species except coast sitka spruce], jack pine, lodgepole pine, balsam fir and alpine fir)	2 x 8 (38 x 184)	3-ply	9-10 (3.00)	8-5 (2.58)	7-7 (2.30)	6-10 (2.09)	6-4 (1.93)
		4-ply	10-10 (3.30)	9-5 (2.88)	8-7 (2.62)	7-11 (2.42)	7-4 (2.23)
		5-ply	11-8 (3.55)	10-2 (3.10)	9-3 (2.82)	8-7 (2.62)	8-1 (2.46)
	2 x 10 (38 x 235)	3-ply	12-0 (3.67)	10-4 (3.15)	9-3 (2.81)	8-5 (2.56)	7-9 (2.36)
		4-ply	13-10 (4.21)	11-11 (3.64)	10-8 (3.24)	9-8 (2.95)	8-11 (2.73)
		5-ply	14-11 (4.54)	13-0 (3.96)	11-10 (3.60)	10-10 (3.30)	10-0 (3.05)
	2 x 12 (38 x 286)	3-ply	14-0 (4.26)	12-0 (3.66)	10-8 (3.26)	9-9 (2.97)	9-0 (2.74)
		4-ply	16-2 (4.92)	13-11 (4.23)	12-4 (3.76)	11-3 (3.43)	10-5 (3.17)
		5-ply	18-0 (5.49)	15-6 (4.73)	13-10 (4.21)	12-7 (3.83)	11-7 (3.54)

Notes to Table 23

- Spans are calculated based on a maximum supported joist or rafter length of 16 ft. (4.9 m) and a maximum supported truss length of 32 ft. (9.8 m). Spans may be increased by 15% for supported lengths not more than 12 ft., 1 in. (3.7 m) or by 35% for supported lengths not more than 8 ft. (2.4 m). Supported length means half the span of the trusses, roof joists or rafters supported by the lintel plus the length of the overhanging beyond the lintel.
- For ends of lintels fully supported by walls, provide minimum 1½ in. (38 mm) of bearing for lintel spans up to 9 ft., 10 in. (3 m) or minimum 3 in. (76 mm) of bearing for lintel spans greater than 9 ft., 10 in. (3 m).

APPENDIX — TABLES

Table 24
Maximum Spans for Roof Joists — Specified Roof Snow Loads 20.9 to 41.8
psf (1.0 to 2.0 kPa)

Commercial Designation		Grade	Joist Size, ft. (m)	Maximum Span, ft.-in. (m)								
				Specified Snow Load, psf (kPa)								
				20.9 (1.0)			31.3 (1.5)			41.8 (2.0)		
			12 (300)	16 (400)	24 (600)	12 (300)	16 (400)	24 (600)	12 (300)	16 (400)	24 (600)	
			Joist Spacing, in. (mm)			Joist Spacing, in. (mm)			Joist Spacing, in. (mm)			
Douglas fir - larch (includes Douglas fir and western larch)	No. 1	2x4 (38x89)	8-6 (2.59)	7-9 (2.36)	6-9 (2.06)	7-5 (2.27)	6-9 (2.06)	5-11 (1.80)	6-9 (2.06)	6-2 (1.87)	5-4 (1.63)	
	No. 2	2x6 (38x140)	13-5 (4.08)	12-2 (3.71)	10-8 (3.24)	11-8 (3.57)	10-8 (3.24)	9-3 (2.83)	10-8 (3.24)	9-8 (2.94)	8-5 (2.57)	
		2x8 (38x184)	17-7 (5.36)	16-0 (4.87)	14-0 (4.26)	15-4 (4.69)	14-0 (4.26)	12-2 (3.72)	14-0 (4.26)	12-8 (3.87)	11-1 (3.38)	
		2x10 (38x235)	22-6 (6.85)	20-5 (6.22)	17-10 (5.44)	19-8 (5.98)	17-10 (5.44)	15-7 (4.74)	17-10 (5.44)	16-2 (4.94)	13-10 (4.22)	
		2x12 (38x286)	27-4 (8.34)	24-10 (7.57)	21-0 (6.40)	23-11 (7.28)	21-9 (6.62)	18-1 (5.50)	21-9 (6.62)	19-8 (6.00)	16-1 (4.90)	
	Hem - fir (includes western hemlock and amabilis fir)	No. 1	2x4 (38x89)	8-6 (2.59)	7-9 (2.36)	6-9 (2.06)	7-5 (2.27)	6-9 (2.06)	5-11 (1.80)	6-9 (2.06)	6-2 (1.87)	5-4 (1.63)
No. 2		2x6 (38x140)	13-5 (4.08)	12-2 (3.71)	10-8 (3.24)	11-8 (3.57)	10-8 (3.24)	9-3 (2.83)	10-8 (3.24)	9-8 (2.94)	8-5 (2.57)	
		2x8 (38x184)	17-7 (5.36)	16-0 (4.87)	14-0 (4.26)	15-4 (4.69)	14-0 (4.26)	12-2 (3.72)	14-0 (4.26)	12-8 (3.87)	11-1 (3.38)	
		2x10 (38x235)	22-6 (6.85)	20-5 (6.22)	17-10 (5.44)	19-8 (5.98)	17-10 (5.44)	15-7 (4.75)	17-10 (5.44)	16-2 (4.94)	14-2 (4.32)	
		2x12 (38x286)	27-4 (8.34)	24-10 (7.57)	21-9 (6.62)	23-11 (7.28)	21-9 (6.62)	18-11 (5.77)	21-9 (6.62)	19-9 (6.01)	16-10 (5.25)	
Spruce - pine - fir (includes spruce [all species except coast sitka spruce], jack pine, lodgepole pine, balsam fir and alpine fir)		No. 1	2x4 (38x89)	8-1 (2.47)	7-4 (2.24)	6-5 (1.96)	7-1 (2.16)	6-5 (1.96)	5-7 (1.71)	6-5 (1.96)	5-10 (1.78)	5-1 (1.56)
	No. 2	2x6 (38x140)	12-9 (3.89)	11-7 (3.53)	10-1 (3.08)	11-2 (3.40)	10-1 (3.08)	8-10 (2.69)	10-1 (3.08)	9-2 (2.80)	8-0 (2.45)	
		2x8 (38x184)	16-9 (5.11)	15-3 (4.64)	13-4 (4.05)	14-8 (4.46)	13-4 (4.05)	11-7 (3.54)	13-4 (4.05)	12-1 (3.68)	10-7 (3.22)	
		2x10 (38x235)	21-5 (6.52)	19-5 (5.93)	17-0 (5.18)	18-8 (5.70)	17-0 (5.18)	14-10 (4.52)	17-0 (5.18)	15-5 (4.70)	13-6 (4.11)	
		2x12 (38x286)	26-1 (7.94)	23-8 (7.21)	20-8 (6.30)	22-9 (6.94)	20-8 (6.30)	18-1 (5.50)	20-8 (6.30)	18-9 (5.73)	16-5 (5.00)	
	Northern species (includes any Canadian species covered by the NLGA Standard Grading Rules)	No. 1	2x4 (38x89)	7-4 (2.23)	6-8 (2.03)	5-10 (1.77)	6-5 (1.95)	5-10 (1.77)	5-1 (1.55)	5-10 (1.77)	5-3 (1.61)	4-7 (1.41)
No. 2		2x6 (38x140)	11-6 (3.51)	10-6 (3.19)	9-2 (2.79)	10-1 (3.07)	9-2 (2.79)	8-0 (2.43)	9-2 (2.79)	8-4 (2.53)	7-3 (2.21)	
		2x8 (38x184)	15-2 (4.61)	13-9 (4.19)	12-0 (3.66)	13-3 (4.03)	12-0 (3.66)	10-6 (3.20)	12-0 (3.66)	10-11 (3.33)	9-6 (2.91)	
		2x10 (38x235)	19-4 (5.89)	17-7 (5.35)	15-4 (4.68)	16-11 (5.15)	15-4 (4.68)	13-5 (4.09)	15-4 (4.68)	13-11 (4.25)	12-1 (3.68)	
		2x12 (38x286)	23-6 (7.17)	21-5 (6.52)	18-4 (5.58)	20-7 (6.26)	18-8 (5.69)	15-9 (4.80)	18-8 (5.69)	17-0 (5.17)	14-0 (4.27)	