

## **USA - Grading Rules for 2" Dimension Lumber**



WIDTHS		EDGE KNOTS					CENTERLINE AND COMBINATION KNOTS						HOLES								
nominal	actual	(knots at edge of wide face or narrow face knots)				(knots on wide face or multiple knots in cross-section)						(unsound, loose knots in SEL, NO.1)									
inches	mm		n	ım		cross	-sectiona	l displace	ement		n	ım		cross-sectional displacement			n	mm			
		SEL	NO.1	NO.2	NO.3	SEL	NO.1	NO.2	NO.3	SEL	NO.1	NO.2	NO.3	SEL	NO.1	NO.2	NO.3	SEL	NO.1	NO.2	NO.3
					STUD				STUD			STAND	STUD			STAND	STUD			STAND	STUD
4	88,9	19	25	32	44	21%	29%	36%	50%	22	38	51	64	25%	43%	57%	71%	19	25	32	44/38
6	139,7	29	38	48	70	20%	27%	34%	50%	48	57	73	95	34%	41%	52%	68%	25	32	38	51
8	184,2	38	51	64	89	21%	28%	34%	48%	57	70	89	114	31%	38%	48%	62%	32	38	51	64
10	235,0	48	64	83	114	20%	27%	35%	49%	67	83	108	140	28%	35%	46%	59%	32	38	64	76
12	285,8	57	76	96	140	20%	27%	33%	49%	76	95	121	165	25%	31%	42%	56%	32	38	75	89

SIZES		LENGTHS		BOW (mm)			CROOK (mm)			TWIST (mm)			CUP (mm)		
nominal	actual	actual	actual	SEL, NO.1	NO.2	NO.3									
inches	mm	feet	mm	CONST, STUD	STAND	UTIL									
		8	2439	13	19	25	6	10	13	10	13	19	1	1	2
		10	3048	35	38	70	10	13	19	11	16	22	1	1	2
2 x 4	38,1 x 88,9	12	3658	38	51	76	13	17	25	14	19	29	1	1	2
		14	4268	51	64	102	16	22	32	16	22	32	1	1	2
		16	4877	64	83	127	19	25	38	19	25	38	1	1	2
		8	2439	13	19	25	6	8	13	14	19	29	2	2	3
		10	3048	35	38	70	8	11	16	17	22	35	2	2	3
2 x 6	38,1 x 139,7	12	3658	38	51	76	11	16	22	21	29	41	2	2	3
		14	4268	51	64	102	14	19	29	24	32	48	2	2	3
		16	4877	64	83	127	17	22	35	29	38	57	2	2	3
	38,1 x 184,2	8	2439	13	19	25	5	6	10	19	25	38	2	3	5
		10	3048	35	38	70	6	10	13	24	32	48	2	3	5
2 x 8		12	3658	38	51	76	10	13	21	29	38	57	2	3	5
		14	4268	51	64	102	13	16	25	33	44	67	2	3	5
		16	4877	64	83	127	14	19	29	38	51	76	2	3	5
		8	2439	13	19	25	3	5	6	24	32	48	3	5	6
	38,1 x 235,0	10	3048	35	38	70	6	6	11	30	38	60	3	5	6
2 x 10		12	3658	38	51	76	10	11	19	35	48	70	3	5	6
		14	4268	51	64	102	11	13	22	41	54	83	3	5	6
		16	4877	64	83	127	13	16	25	48	64	95	3	5	6
		8	2439	13	19	25	2	3	5	28	38	57	3	6	9
	38,1 x 285,8	10	3048	35	38	70	5	5	10	35	48	44	3	6	9
2 x 12		12	3658	38	51	76	7	9	14	43	57	86	3	6	9
		14	4268	51	64	102	9	9	19	49	67	98	3	6	9
		16	4877	64	83	127	11	13	22	57	76	114	3	6	9

Please note that the above measurements are converted from US inches (25,4 mm) and are approximations. In case of disagreement, measurements according to NGR (National Grading Rule) in US inches are valid. The above measurements have been converted into metric units according to the American Softwood Lumber Standard PS20 regulations.



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WOOD PROPERTIES	SELECT STRUCTURAL	NO. 1	NO. 2 / STANDARD	NO. 3						
Wane	1/4 thickness and 1/4 width full length or equ thickness or 1/3 the width for 1/4 of the lengt	•	equivalent on each face. Not to exceed 2/3	1/2 thickness and 1/2 width full length or equivalent on each face. Not to exceed 7/8 the thickness or 3/4 the width for 1/4 of the length.						
Slope of grain	1:12	1:10	NO.2 1:8 / STANDARD 1:4	1:4						
Splits Checks Shakes	Surface checks allowed, if through at ends, conominal width of the piece. Measure both factorial mm long. Through shake away from end is not	es and average. Surface shakes up to 610	Surface checks allowed. Splits and shakes at ends may be 1,5 x the nominal width of the piece. Shakes away from end may be through for 610 mm. Surface shakes may be 915 mm long or 1/4 the length.	Surface checks and shakes allowed. If through at ends or edges limit to 1/6 the length (including splits). All others 1/3 the length. Measure both faces and average.						
Stain (blue, brown)		Not li	mited.							
Sawcut	Not all	owed.	Limited to 1/2 the equivalent edge knot displacement if wide face to edge. Limited to 1/2 the allowable edge knot size on worst face if wide face to wide face.							
Unsound wood	Not all	owed.	length, or equivalent, on any face or	Limited to spots or streaks 1/3 the cross section at any point along length. Must not destroy nailing edge.						
Compression wood	Proh	Prohibited if in readily identifiable and damaging form. Damaging form = excessive warp, break, etc.								
Timber break	Not all	owed.	NO.2 - Not allowed. STANDARD - Hole size on worst face.	Hole size on worst face.						
Skips	Hit and miss (1,6mm deep) in a	maximum of 10% of the pieces.	"Hit and miss" with max 1,6 mm depth. In addition 5% of pieces may be "Hit or miss", or heavy skip max depth 3,2 mm on max 610 mm length.	"Hit or miss" with max 1,6 mm depth. In addition 10% of pieces may have heavy skips max depth 3,2 mm.						
Machine bite and offset	Maximum	1,6 mm.	Maximum 3,2 mm.							
Manufactured holes	The area shall not exceed the equivaler	nt area of the knot hole permitted and is limit	ed to one manufactured hole in 12 foot (3658	mm) of length or two in longer lengths.						
Length allowance	Diameter of knot hole. 1,5 x diameter of knot hole.		Width of piece.	1,5 x width of piece.						
Rounding of edge		Maximur	m 3,2 mm.							
Moisture content		Maximum 19 %.								
DET (Double End Trim)		DET lumber is allowed to be up to 76 mm longer than the specified length, but not shorter.								
PET (Precision End Trim)		PET lumber is allowed to be 1,6 mm longer or shorter than the specified length on 20% of the pieces.								
Size tolerance	All lumber shall be manufactured to	the correct sizes in inches. The tolerance for	under-size is -0.0 mm. Over-sized lumber may	be manufactured up to the next size.						

DIMENSION LUMBER SIZES								
nominal	actual	actual						
inches	inches	mm						
2 x 4	1-1/2 x 3-1/2	38,1 x 88,9						
2 x 6	1-1/2 x 5-1/2	38,1 x 139,7						
2 x 8	1-1/2 x 7-1/4	38,1 x 184,2						
2 x 10	1-1/2 x 9-1/4	38,1 x 235,0						
2 x 12	1-1/2 x 11-1/4	38,1 x 285,8						

- 1) During routine mill inspection, lumber found to have 7,5% or more of below grade, excess moisture content or incorrect species will be held for re-inspection. Illegible or incomplete stamps of 10% or more will be held for restamping.
- 2) Non-conforming inspection results can trigger mandatory follow up inspections under section 5.8.2 of the ALSC Lumber Enforcement Regulations which may be considered non-routine and may incur additional fees and travel expenses.
- 3) All TP stamped lumber, regardless of destination, shall be reported as shipped volume. Also, any non-stamped lumber, regardless of size, which is shipped to the US or US territories shall be reported., before the 10th calendar day of the following month.
- 4) It is only allowed to use TP approved stamps on material shipped to the US. This includes any stamps which reference ALSC recognized stamp nomenclature, such as grade, species, moisture content (KD), phytosanitation (HT), etc.