			Str	ructural I	Light Fran	ning, Joists an	d Planks	- All Spec	ies				
2" to 4" thick, 2" and wider Pertinent Extracts From NLGA Para. 124													
Paragraph No.	124a			124b			124c			124d			
Grade	Select Stru	ctural		No.1						No. 3			
Man. Standard	Е			E			F	F			F		
Pkt & Pitch Str	+			+			+			+			
Shakes &	Surface up to 2' long			Surface up to 2' long			Not through 3' L or 1/4 L (greater).			Not through full length. 1/3L through			
Checks	None through			None through			Through 2' long.			Through edge (3 face), equal to split			
(Go to Pg. 5-7)							Through to edge 3/4 T			Deepest penetration equiv. to hole			
Skips	Hit & Miss 1/16"x4' (10% of the			Hit & Miss 1/16"x4' (10% of the			Hit or Miss or <b>Heavy</b> (1/8") skip 2'L			Heavy Skips (1/8" F/L) (10% of the			
	pieces)			pieces)			or less in length (5% of the pieces)			pieces)			
Splits (nom.)	Width of piece			Width of piece			1 1/2 x Width			1/6 the length			
Slope of Grain	1 in 12 (more 7)			1 in 10 (more 7)			1 in 8 (more 7)			1 in 4 (more 7)			
Stain			n (10% vol.)	+		_	+			+			
Wane. Good	1/4 T x 1/4 W full length or			1/4 T x 1/4 W full length or			1/3 T x 1/3 W full length or			1/2 T x 1/2 W full length or			
wood chart (More-5), 750	equivalent, provided that wane not			equivalent, provided that wane not			equivalent, provided that wane not			equivalent, provided that wane not exceed *7/8 T x 3/4 W (*maximum			
wane (pg 5-8)	exceed *1/2 T x 1/3 W (*maximum equivalencies). If wane exceeds 1/2 T			exceed *1/2 T x 1/3 W (*maximum equivalencies). If wane exceeds 1/2 T			exceed *2/3 T x 1/2 W (*maximum equivalencies). If wane exceeds 2/3 T			equivalencies). If wane exceeds 7/8 T			
wane (pg 3-0)	x 1/3 W, check Para. 750.			x 1/3 W, check Para. 750.			x 1/2 W, check Para. 750.			x 3/4 W, check Para. 750.			
Pin Hole		of knot hole	30.	48 per 1" of knot hole			48 per 1" of knot hole			48 per 1" of knot hole			
Grub Holes		of knot hole		12 per 1" of knot hole			12 per 1" of knot hole			12 per 1" of knot hole			
Warp	1/2 Medium			1/2 Medium			Light			Medium			
White Specks	_			_			Firm, 1/3 the volume			Firm +			
Honeycomb	_			_			1/6 the width			Firm +			
Unsound Wood	=			_			1/12 W x 2" L or equivalent smaller,			Spots and streaks, 1/3 cross section			
						2" T only			If through, through portion 1/6L				
							Spot cannot exceed width or length		Must not destroy nailing edge (7/8T)				
Knots	F & T UNS, NFF &		F & T UNS, NFF &			Any Quality Holes			Any Quality Holes				
		1	Holes			Holes		_			T		
	Edge of	Centre	Holes, 1 or	Edge of	Centre of	Holes, 1 or	Edge of	Centre of	Holes, 1 or	Edge of	Centre	Holes, 1 or	
	Wide	of Wide	equiv. per 4	Wide	Wide	equiv. per 3	Wide	Wide	equiv. per 2	Wide	of Wide	equiv. per 1	
211	Face	Face	linear feet	Face	Face	linear feet	Face	Face	linear feet	Face	Face	linear foot	
3"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1 1/4"	1 1/4"	1 1/4"	
4''	3/4"	7/8"	3/4"	1"	1 1/2"	1"	1 1/4"	2"	1 1/4"	1 3/4"	2 1/2"	1 3/4"	
5"	1"	1 1/2"	7/8"	1 1/4"	1 7/8"	1 1/8"	1 5/8"	2 3/8"	1 3/8"	2 1/4"	3"	1 7/8"	
6''	1 1/8"	1 7/8"	1"	1 1/2"	2 1/4"	1 1/4"	1 7/8"	2 7/8"	1 1/2"	2 3/4"	3 3/4"	2"	
8''	1 1/2"	2 1/4"	1 1/4"	2"	2 3/4"	1 1/2"	2 1/2"	3 1/2"	2"	3 1/2"	4 1/2"	2 1/2"	
10"	1 7/8"	2 5/8"	1 1/4"	2 1/2"	3 1/4"	1 1/2"	3 1/4"	4 1/4"	2 1/2"	4 1/2"	5 1/2"	3"	
12"	2 1/4"	3"	1 1/4"	3"	3 3/4"	1 1/2"	3 3/4"	4 3/4"	3"	5 1/2"	6 1/2"	3 1/2"	
Spike Knots	Equal to Round Edge Knots - For 2" only (ends of knot) x (length of the knot) x (1/3)												
Notes	Saw cuts are generally not permitted in select structural or No.1. For Economy grade use NGLA para. 122e. Treat soft honeycomb as unsound wood.												

	Studs - All Species								
2" to 4" thick, 2" and wider		Pertinent Extracts From NLGA Para. 121							
Paragraph Number	121c	121c							
Grade	Stud								
Manufacturing Standard	turing Standard F								
Pockets	+								
Pitch Streaks	+								
Shakes & Checks	Not through full length								
	1/3 L through								
	Through the edge (3	face) 1/3 L (Different fro	om #3)						
	Deepest penetration of	Deepest penetration equivalent to hole							
Skips	Hit or miss on any f	ace (1/16")							
	Heavy skip (1/8'') on								
Splits (nominal)	Twice the width of the	he piece							
Slope of Grain	1 in 4								
Stain	+								
Wane	1/3 T x 1/2 W full lea	ngth or equivalent, provid	led that wane not exceed						
See good wood chart (More-5).		*1/2 T x 3/4 W (*maximum equivalencies). If wane does exceed the							
See Para. 750 wane (page 5-8).	maximum equivalence	cies, check							
		Para. 750.							
Pin Hole	48 per 1" of knot hole								
Grub Holes	12 per 1" of knot hole								
Warp	1/2 Medium								
White Specks	Firm +								
Honeycomb	Firm +								
Unsound Wood	Spots and streaks limited to 1/3 cross section								
	If through, through portion 1/6 L								
	Must not destroy nailing edge – Para 710e (wane 1/2 T max)								
Knots	Any Quality Holes								
	Edge of Wide Face	Centre of Wide Face	Holes, 1 or equivalent per 1 linear foot						
3"	1 1/4"	1 1/4"	1 1/4"						
4"	1 3/4"	2 1/2"	1 1/2" 1 3/4"						
5"	2 1/4"	3"							
6''		2 3/4" 3 3/4" 3 1/2" 4 1/2"							
8"									
10"		3 1/2" 4 1/2" 2 1/2" 4 1/2" 5 1/2" 3"							
12"		5 1/2" 6 1/2" 3 1/2"							
All Spike Knots	Equal to Round Edge Knots:								
711 Spike Know	For 2" only (ends of knot) x (length of the knot) x (1/3)								
Notes	For Economy grade use NGLA para. 122e.								
	Treat soft honeycomb as unsound wood.								
	Studs are graded similar to No. 3 Structural.								

Common Boards - All Species													
Pertinent Extracts From NLGA Para. 113													
Paragraph No.	113b		113c				113d			113e			
Grade	No. 2 Con	nmon		No. 3 Cor	No. 3 Common				on		No. 5 Common		
Checks	2 Medium or equivalent			Medium				+			+		
Roller Checks	Light on the back 1/4 L			1 - 3' on t	he face			Medium 2/3 L	on the face		+		
				Medium f	or 2/3 L or	the back	2	Full length on	the back				
Crook	Table 810b			Table 810b				Table 810b			+		
Cup	Light			Medium				Heavy			+		
Pin Hole	12 scattered in 1" x 8" x 12'			30 per square foot				+			+		
Grub Holes	_			4 grub holes in a 1" x 8" x 12'				+			+		
Pockets	3 Small dry (1/4" x 2")			Medium (3/8 x 4")				Large			+		
Pitch Streaks	2 Very Sn	nall (3/8" x	15")	2 Small (1	/12 W x 1	/6 L)		+			+		
Shakes	Light 1/6 L			Light to Medium scattered full length				Heavy			+		
Skips	Medium (1/16") on the back 1/4 L			1 Medium on the face				Hit & Miss on Face. 1/16" scant F/L if			Scant 1/4" in thickness and 1/2" in		
	Medium (	1/16") on th	ne edge 1/3 L		s on back			1 side surfaced or 1/8" scant 2' L in			width (#3 common type pieces)		
				1 edge 1/8" scant 1/2 L, or 1/16" F/L				highline pcs. 1 edge 1/4" scant 1/2 L			Scant 1/8" in thickness and 1/2" in		
								or 1/8" scant full length			width (#4 or #5 common type pieces)		
Splits (on face)	Short – one on each end			1/6 L – one on each end				1/3 L – one on each end			1/2 L – one on each end		
Stain	Medium + if otherwise highline			+				+			+		
Torn Grain	Light (1/32"), Patches 4" X 6"			Medium (1/16")				Heavy			+		
Wane	On the back – 1/2 T, 1/6 W, 1/3 L			On the back $- \frac{2}{3}$ T, $\frac{1}{4}$ W, $\frac{1}{2}$ L or			1/2 T, 1/8 W, 1/6 L on face. Heavy on			Through wane equivalent to holes			
(Guideline)				equivalent			back. If through edge, equivalent to			Reverse side – 1/8" deep			
								holes. Across the back equivalent to					
TT 1337 1	<u> </u>						skip, 2 x width in length						
Unsound Wood	od   -			_			Spots equal to fixed knot size, total area not to exceed 1/4 face area			Spots and patches			
II							Firm +			Ei			
Honeycomb	_									Firm +			
White Specks	- -	1.0.0	I 1	1/8 the fac		Loose, UNS,		Firm +			Firm +		
Knots	S & T	1 S & T	Fixed	S & T	S & T			Fixed F &T Loose, Knot Holes		ot Holes	Any Quality and Knot Holes		
2"	Red	Black	2 amall == ===	Red	Black	Fixed, 1		1.2/4"	Unsound 1"	Heler			
3" 4"	1 1/4"	1/2" 3/4"	2 small or one 3/4" slough	1 1/2"	2/3 size of red	5/8" 3/4"	Fixed 2 per 12'.	1 3/4" 3"	1 1/2"	Holes &/or			
		3/4"	3/4 Siougii		2 per	1 1/4"	Holes			loose			
6" 8"	2 1/2"		4	3" 3 1/2"	12'	1 1/4"	& loose	3 1/2"	2" 2 1/2"	knots 3	Huge		
10"	3"	1 1/4"	4	4"	12		1/pc.	2/3W	3"	per 12'	11050		
12"	3 1/4" 3 3/4"	1 3/8"	-	4 1/2"	-	1 3/4"	- P	2/3W					
			Line The 11										
Spike Knots	Spike knots are permitted. They should have no more effect than other knots.												
Notes	Unless stated, the number of knots is not restricted. No. 2 Common black knots are listed for 16' pieces. The grade is based on a 1" x 8" x 12' piece. Common Boards are graded on the face, unless otherwise noted. The back of a piece can be one grade lower when not specified in the grade description.												
	The rule for No. 1 Commons (NLGA para. 113a) is rarely used and so is not covered in this chart.								med in the grade description.				
	The fair for two. I Commons (INDOA para, 113a) is fairly used and so is not covered in this chart.												