

SUPPLEMENT No. 1
for the
December 1, 2005
NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER

Approved by the NLGA Board of Directors & the ALS Board of Review

Effective August 20, 2006

Note: This supplement supersedes the sections of the December 1, 2005 edition of the NLGA Standard Grading Rules for Canadian Lumber & Interpretations identified as follows:

APPROVED REVISIONS TO THE NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER

- Below are the NLGA Board and ALS Board of Review (July 27th 2006) approved revisions to the NLGA Standard Grading Rules for Canadian Lumber (Dec. 1, 2005 edition). These changes will be incorporated into the next printing of the NLGA Grade Rule.

A. Supplement No. 1 (a) - Para. 7a - Species Combinations - pages 10 & 11

- In order to provide recognition for the new Yellow Cedar and Sitka Spruce design values, the paragraphs at the end of Para. 7a. of the grade rule be revised as shown below (the revision is underlined).

Since the composition of species in timber stands varies and there is no practical way to determine the species mix percentage that might be included in a particular shipment, lumber marked with a combination grade stamp may be all of any one species or some mix of any of the species in the combination.

*Even though individual species of a combination may be separately identified, design values are published **primarily** for four Canadian species combinations for dimension lumber sizes: Spruce-Pine-Fir, Douglas Fir-L(N), Hem-Fir(N) and Northern Species. This is because the first three combinations, which are specified and used as combinations, were sampled and tested as coherent groups. **The exceptions to this rule are Coast Sitka Spruce and Yellow Cedar, individual species which have separate design values based on recent sampling and testing, and are not part of the first three species combinations.** The fourth combination, Northern Species, is a bracket group for any Canadian species covered by this Rule.*

*Mills may wish to separate individual species of dimension lumber for marketing or manufacturing purposes, although there is no advantage in such separation for design values. Where individual species of dimension lumber, other than **Coast Sitka Spruce or Yellow Cedar** or those in the Spruce-Pine-Fir, Douglas Fir-L(N), or Hem-Fir(N) species combinations are shipped alone or in combination, the values of Northern Species combination apply.*

Where shipments include species that come from more than one species combination, which may not be separated, the lowest design values for these species combinations shall apply.

B. Supplement No. 1 (b) Paras. 905i, 905j & 905l – Allowable Unit Stresses - pages 260, 261 & 263

- That Para. 905i, 905j and 905l of the NLGA grade rule be revised to include proposed new design values for Yellow Cedar, Coast Sitka Spruce and Northern Species as follows:

905i. STRUCTURAL LIGHT FRAMING (2" to 4" Thick, 2" to 4" Wide) AND JOISTS AND PLANKS (2" to 4" Thick, 5" and Wider) (Para. 124)

Recommended Allowable Unit Stresses (in psi) - 2" by 12" Basis (for Size Adjustment Factors, see Para. 905g)

Species Group	Grade	Extreme Fibre in Bending <i>F_b</i>	Tension Parallel to Grain <i>F_t</i>	Horizontal Shear <i>F_v</i>	Compression		Modulus of Elasticity (10 ⁶ psi) <i>E</i>
					Parallel to Grain <i>F_C</i>	Perp. To Grain <i>F_{C⊥}</i>	
Yellow Cedar	Select Structural	1200	725		1200		1.6
	No. 1/No. 2	800	475	175	1000	540	1.4
	No. 3	475	275		575		1.2
Sitka Spruce	Select Structural	1300	950		1200		1.7
	No. 1/No. 2	925	550	125	1100	455	1.5
	No. 3	525	325		625		1.4
Northern Species	Select Structural	975	425		1100		1.1
	No. 1/No. 2	625	275	110	850	350	1.1
	No. 3	350	150		500		1.0

905j. LIGHT FRAMING (2" to 4" Thick, 2" to 4" Wide) (Para. 122)

Recommended Allowable Unit Stresses (in psi) - 2" by 4" Basis (for Size Adjustment Factors, see Para.905g)

Species Group	Grade	Extreme Fibre in Bending <i>F_b</i>	Tension Parallel to Grain <i>F_t</i>	Horizontal Shear <i>F_v</i>	Compression		Modulus of Elasticity (million psi) <i>E</i>
					Parallel to Grain <i>F_C</i>	Perp. To Grain <i>F_{C⊥}</i>	
Yellow Cedar	Construction	925	550		1200		1.3
	Standard	525	300	175	1050	540	1.2
	Utility	250	150		675		1.1
Sitka Spruce	Construction	1050	650		1300		1.4
	Standard	600	350	125	1100	455	1.3
	Utility	275	175		725		1.2
Northern Species	Construction	700	325		1050		1.0
	Standard	400	175	110	875	350	0.9
	Utility	175	75		575		0.9

905l. STUDS (2" to 4" Thick, 2" to 6" Wide) (Para. 121)

Recommended Allowable Unit Stresses (psi) – 2" by 6" basis (for Size Adjustment Factors, see Table 905g {iii})
 (For Studs wider than 6", use the property values for No. 3 grade {Table 905i} and width adjustment factors as listed in Table 905g{i})

Species Group	Grade	Extreme Fibre in Bending <i>F_b</i>	Tension Parallel to Grain <i>F_t</i>	Horizontal Shear <i>F_v</i>	Compression		Modulus of Elasticity (million psi) <i>E</i>
					Parallel to Grain <i>F_C</i>	Perp. To Grain <i>F_{C⊥}</i>	
Yellow Cedar	Stud	625	375	175	650	540	1.2
Sitka Spruce	Stud	725	450	125	675	455	1.4
Northern Species	Stud	475	225	110	550	350	1.0