

# NLGA Standard Grading Rules for Canadian Lumber (2017 edition)

## Supplement No. 1 (effective March 1, 2019)

Approved by the NLGA Board, CLSAB and the ALSC Board of Review

**Note:** This Supplement supersedes the following sections of the NLGA Standard Grading Rules for Canadian Lumber (2017). It was prepared to clarify and recognize the grading of Canadian-grown Norway spruce for structural lumber grades listed under Paras. 120, 121, 122 & 124 and add Norway spruce (N) design values for use in the U.S.

Track Changes to 2017 version	Amendment as per Supplement No. 1
<p><b>Modify</b> Para. 7, Page 9, Note at the bottom of the Softwood Lumber Species Table:</p> <p><i>*Note: Effective March 1, 2019, Canadian-grown Norway spruce may be graded under the structural dimension lumber specifications of Paras. 120, 121, 122 or 124 and grade-stamped as a separate species with “N Spr (N)” or with the “North Species” species combination. <del>does not have design values for structural use in Canada and the U.S. and therefore may not be intermingled with structural lumber of any species that have design values, nor shall it be grade stamped to any grade within the NLGA Grade Rules that have design values.</del></i></p>	<p><u>Para. 7, Page 9, Note at the bottom of the Softwood Lumber Species Table:</u></p> <p><i>*Note: Effective March 1, 2019, Canadian-grown Norway spruce may be graded under the structural dimension lumber specifications of Paras. 120, 121, 122 or 124 and grade-stamped as a separate species with “N Spr (N)” or with the “North Species” species combination.</i></p>
<p><b>Modify</b> Para. 7a Table, Page 10, Species Combination column and North Species row:</p> <p>Any Canadian lumber species covered by the NLGA Grading Rules except for <del>Norway spruce in Canada and Norway spruce,</del> Red alder and White birch in the U.S.</p>	<p><u>Para. 7a Table, Page 10, Species Combination column and North Species row:</u></p> <p>Any Canadian lumber species covered by the NLGA Grading Rules except for Red alder and White birch in the U.S.</p>
<p><b>Modify</b> Para. 7b, Page 11, Structural Design Values, last sentence of the first paragraph:</p> <p>The fourth combination, North Species, is a bracket group for any Canadian species covered by the NLGA Grading Rules except for <del>Norway spruce in Canada and Norway spruce,</del> Red alder and White birch <b>for use</b> in the U.S.</p>	<p><u>Para. 7b, Page 11, Structural Design Values, last sentence of the first paragraph:</u></p> <p>The fourth combination, North Species, is a bracket group for any Canadian species covered by the NLGA Grading Rules except for Red alder and White birch for use in the U.S.</p>

Track Changes to 2017 version	Amendment as per Supplement No. 1
<p><b>Modify</b> Para. 7b, Page 11, Structural Design Values, first sentence of the second paragraph:</p> <p><del>For use in the U.S., for Dimension Lumber, as listed under design values are listed in the NLGA Grading Rules, Section 900 and published in the American Wood Council (AWC) National Design Specification (NDS) Supplement for NLGA species combinations and some separate species as noted below:</del></p> <p><b>Dimension Lumber:</b> design values are tabled under Paras. 905i, 905j &amp; 905l by product, species/species combination and grade.</p> <p><del>the exceptions</del> <b>Exceptions</b> to the structural lumber design value species combinations groups are Coast Sitka spruce, <b>Norway spruce</b> and Yellow cedar; individual species which have separate, species specific, assigned design values.</p> <p><del>In the U.S., for</del> <b>Timbers (Beams and Stringers &amp; Posts and Timbers):</b> as per the NLGA Standard Grading Rules, Tables 905n and 905o...</p>	<p>Para. 7b, Page 11, Structural Design Values, first sentence of the second paragraph:</p> <p>For use in the U.S., design values are listed in the NLGA Grading Rules, Section 900 and published in the American Wood Council (AWC) National Design Specification (NDS) Supplement for NLGA species combinations and some separate species as noted below:</p> <p><b>Dimension Lumber:</b> design values are tabled under NLGA Paras. 905i, 905j &amp; 905l by product, species/species combination and grade. Exceptions to the species combinations are Coast Sitka spruce, Norway spruce and Yellow cedar; individual species which have separate, species specific, assigned design values.</p> <p><b>Timbers (Beams &amp; Stringers and Posts &amp; Timbers):</b> as per the NLGA Grading Rules, Tables 905n and 905o...</p>

**Add the following species and grades to** Para. 905i, Page 270, Structural Light Framing & Joists and Planks:

Species	Grade	Extreme Fibre in Bending $F_b$	Tension Parallel to Grain $F_t$	Horizontal Shear $F_v$	Compression		Modulus of Elasticity (million psi) $E$
					Parallel to Grain $F_{cll}$	Perp. To Grain $F_{cperp}$	
Norway Spruce (N)	Sel Str	950	600	190	1100	410	1.5
	No. 1	650	425	190	900	410	1.3
	No. 2	650	425	190	900	410	1.3
	No. 3	375	250	190	525	410	1.2

**Add the following species and grades to** Para. 905j, Page 271, Light Framing:

Species	Grade	Extreme Fibre in Bending $F_b$	Tension Parallel to Grain $F_t$	Horizontal Shear $F_v$	Compression		Modulus of Elasticity (million psi) $E$
					Parallel to Grain $F_{cll}$	Perp. To Grain $F_{cperp}$	
Norway Spruce (N)	Const	725	475	190	1100	410	1.2
	Standard	400	275	190	925	410	1.1
	Utility	200	125	190	600	410	1.1

**Add the following species and grade to Para. 905], Page 273, Studs:**

Species	Grade	Extreme Fibre in Bending $F_b$	Tension Parallel to Grain $F_t$	Horizontal Shear $F_v$	Compression		Modulus of Elasticity (million psi) $E$
					Parallel to Grain $F_{c  }$	Perp. To Grain $F_{c\perp}$	
Norway Spruce (N)	Stud	500	325	190	575	410	1.2