



March 2019

ADDENDUM
to the 2018 Edition of the
Design Values for Wood Construction
(a supplement to the National Design Specification® (NDS®) for Wood Construction)
(Printed version dated 06-18; electronic versions (PDF) dated October 2017 and May 2018)

Modify Section 2.1 as follows:

Species or Species Combination	Species that may be included	Grading Rules Agency	Design Values provided in Tables
Norway Spruce (North)		NLGA	4A, 4C
Northern Species	Any species graded under NLGA rules except Red Alder and White Birch and Norway Spruce	NLGA	4A, 4C, 4E

Add the following species and commercial grades to Table 4A:

Table 4A Reference Design Values for Visually Graded Dimension Lumber (2" - 4" thick)^{1,2,3}

(All species except Southern Pine – see table 4B) (Tabulated design values are for normal load duration and dry service conditions. See NDS 4.3 for a comprehensive description of design value adjustment factors.)

USE WITH TABLE 4A ADJUSTMENT FACTORS

Species and commercial grade	Size classification	Design values in pounds per square inch (psi)							Specific Gravity ⁴	Grading Rules Agency
		Bending F _b	Tension parallel to grain F _t	Shear parallel to grain F _v	Compression perpendicular to grain F _{cL}	Compression parallel to grain F _c	Modulus of Elasticity			
							E	E _{min}		
NORWAY SPRUCE (NORTH)										
Select Structural		950	600	190	410	1,100	1,500,000	1,000,000		
No. 1/No.2	2" & wider	650	425	190	410	900	1,300,000	800,000		
No.3		375	250	190	410	525	1,200,000	700,000		
Stud	2" & wider	500	325	190	410	575	1,200,000	700,000	0.40	NLGA
Construction		725	475	190	410	1,100	1,200,000	700,000		
Standard	2" - 4" wide	400	275	190	410	925	1,100,000	700,000		
Utility		200	125	190	410	600	1,100,000	600,000		