

ADDENDUM
to the 2024 Edition of the
Design Values for Wood Construction
(a supplement to the *National Design Specification® (NDS®) for Wood Construction*)
(All print and electronic versions)

Modify Section 2.1 as follows:

2.1 List of Sawn Lumber Species Combinations

Species or Species Combination	Species That May Be Included in Combination	Grading Rules Agencies	Design Values Provided in Tables
<u>Red Alder</u>		WWPA	4A

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 G	Grading Rules Agency
		Bending F _b	Tension parallel to grain F _t	Shear parallel to grain F _v	Compression perpendicular to grain F _{c⊥}	Compression parallel to grain F _c	Modulus of Elasticity			
							E	E _{min}		
RED ALDER										
<u>Select Structural</u>		<u>1,100</u>	<u>650</u>	<u>140</u>	<u>395</u>	<u>1,050</u>	<u>1,400,000</u>	<u>510,000</u>		
<u>No. 1</u>	2" & wider	<u>800</u>	<u>475</u>	<u>140</u>	<u>395</u>	<u>825</u>	<u>1,300,000</u>	<u>470,000</u>	0.41	WWPA
<u>No. 2</u>		<u>775</u>	<u>450</u>	<u>140</u>	<u>395</u>	<u>650</u>	<u>1,300,000</u>	<u>470,000</u>		
<u>No. 3</u>		<u>450</u>	<u>250</u>	<u>140</u>	<u>395</u>	<u>375</u>	<u>1,100,000</u>	<u>400,000</u>		
<u>Stud</u>	2" & wider	<u>600</u>	<u>350</u>	<u>140</u>	<u>395</u>	<u>400</u>	<u>1,100,000</u>	<u>400,000</u>		
<u>Construction</u>	2" - 4" wide	<u>875</u>	<u>500</u>	<u>140</u>	<u>395</u>	<u>875</u>	<u>1,200,000</u>	<u>440,000</u>		
<u>Standard</u>		<u>450</u>	<u>275</u>	<u>140</u>	<u>395</u>	<u>675</u>	<u>1,100,000</u>	<u>400,000</u>		
<u>Utility</u>		<u>225</u>	<u>125</u>	<u>140</u>	<u>395</u>	<u>425</u>	<u>1,000,000</u>	<u>370,000</u>		