



SPECIES CLASSES EXPLAINED

TO BEGIN....

to be Cross-Laminated Timber a panel must have a minimum of **THREE** layers of cross directional softwood lumber, then there are two ways to grade this CLT.

BUT WHAT DOES THAT MEAN?

Visually Graded

Visually graded lumber has been assessed for the presence of defects and other characteristics; based on the visual grade, the design properties of different species are specified in the standard National Design Specification (NDS) Supplement Design Values for Wood Construction (AWC, 2017b). Standard visual grades include Select Structural (best), No. 1, No. 2, and No. 3 (worst) (AWC, 2017b).

Machine Stress Rated

Machine stress rated lumber is a type of machine-graded lumber. Lumber undergoes a nondestructive machine evaluation test followed by visual grading for aspects the machine cannot test (Kretschmann, Evans, & Green, 2010).

Visually Graded

V1 - Douglas Fir
V2 - SPF
V3 - SYP
V4 - SPF South
V5 - Hem Fir

Machine Stress Rated

E1 - SPF
E2 - Douglas Fir
E3 - Eastern Softwoods
E4 - SYP
E5 - Hem Fir

THEN WE ADD MODIFIERS

**simply meaning what grade of lumber is used
for each layer above the base grade required**

**SmartLam North America is PRG Certified
for all below grades of visually graded CLT**

V2M5 | V4M1 | V1M2 | V5M1 | V5M2 | V3

For more information contact sales@smartlam.com

SMARTLAM.COM

March 22, 2021