



Boise Cascade®
ENGINEERED WOOD PRODUCTS

Reorder #LVL-2020

Versa-Lam LVL 2.1E 2800/3100



VERSA-LAM® LVL 2.1E

2800 / 3100

TRUSS CHORD

**For use in Attic and Girder Trusses,
and High-Load Applications**

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Reference Allowable Design Value Comparison Table

Product	Bending F _b (psi)	Tension F _t (psi)	Compression Parallel to Grain F _c (psi)	Compression Perpendicular to Grain F _{c⊥} (psi)	Modulus of Elasticity (Apparent) E (psi)	Horizontal Shear F _v (psi)	Density (pcf)
Versa-Lam® 2.1E 2800 (DF)	2,800 ⁽¹⁾	2,150 ⁽²⁾	3,000	750	2,000,000	285	37
Versa-Lam® 2.1E 3100 (SP)	3,100 ⁽¹⁾	2,150 ⁽²⁾	3,000	750	2,000,000	285	42
Douglas Fir Select Structural	1,500	1,000	1,700	625	1,900,000	180	31
Douglas Fir #2 Grade	900	575	1,350	625	1,600,000	180	31
2400f - 1.8E MSR	2,400	1,925	1,975	625	1,800,000	180	31
Southern Yellow Pine ⁽³⁾ Select Structural 2x10	1,700	1,150	1,650	565	1,800,000	175	34
Southern Yellow Pine ⁽³⁾ #2 Grade 2x10	800	475	1,300	565	1,400,000	175	34

NOTES

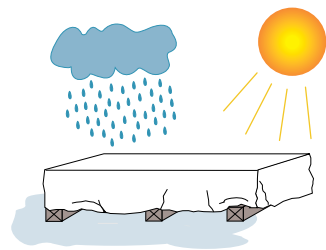
- (1) Fiber stress bending value is multiplied by the depth factor, $(12/d)^{1/9}$ where d = member depth (in).
- (2) Tension value is multiplied by the length factor, $(4/L)^{1/8}$ where L = member depth (ft). Use $L = 4$ for members less than 4 ft long.
- (3) Southern yellow pine values listed for 2x10 sizes, see *NDS Supplement — 2018 Design Values for Wood Construction* (per 2018 IBC/IRC) for other truss chord sizes. Design values for all other products listed valid for all common truss chord sizes (1½" thick)
- ▶ Versa-Lam® LVL (DF) is made from Douglas fir. Versa-Lam® LVL (SP) is made from southern pine.
 - ▶ Dimension lumber values taken from *NDS Supplement — 2018 Design Values for Wood Construction* (per 2018 IBC/IRC).
 - ▶ Repetitive member and size factors have not been applied.

Sizes Available

Width: 1½"

Depths: 5½", 7¼", 9¼", 9½", 11¼", 11⅝", 14"

Protect product from rain and sun.



Versa-Lam® LVL must be protected from weather during storage periods, both before and after truss fabrication.

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Limited Lifetime Warranty

All Boise Cascade BCI® joist, Versa-Lam® LVL, and AJS® joist products are covered by a limited lifetime warranty for the expected life of the structure. View the complete warranty on our website.

www.bc.com/terms-conditions/sales-terms-and-conditions/

The purchaser of Versa-Lam® LVL truss chords is solely responsible for the finished truss, including but not limited to: proper design (including software truss plate values), fabrication, handling, storage, shipping, fall protection, installation, and both temporary and permanent bracing.

NEED MORE INFORMATION?

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For further information on Versa-Lam® LVL truss chord best practices and limitations, please contact Boise Cascade EWP Engineering at 800.232.0788.



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