

Structural Composite Lumber Values v2017

CAUTION: SCL Manufacturer specifications may change at any time! Consult current manuf. published literature. These are NOT Canadian values. These design values are for USA calculations using Allowable Stress Design.
 Please be advised that most of these multi-million dollar companies seem *unable* to keep their websites up to date and any sizes or values found there should be used with caution. Call the sales rep or your local supplier for more accurate information. All sizes and grades may not be available in your locale. Read the manufacturer's printed literature for requirements specific to their products. See notes at bottom of this page.

Manufacturer	Product	Fb	Fv	E	Fc ⊥	PCF	Cf
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The Size Factor, Cf = exponent of 12/d⁴

BC Boise Cascade

1-3/4" to 2-5/8" Widths	Versa Lam® LVL 2.0E	2800	285	2.0	750	37	0.111
3-1/2" to 7" Widths	Versa Lam® LVL 2.0E	3100	285	2.0	750	37	0.111

A Versa Lam LVL 3100 SP has been available in 1-3/4" width, but may not be available nation-wide. Check with your supplier.

GP Georgia Pacific

1-3/4" to (4) 1-3/4" built-up or	1.5E GP Lam	2250	285	1.5	750	37.5	0.154
1-1/2" to (4) 1-1/2" built-up	2.0E GP Lam	2900	285	2.0	845	37.5	0.111

LP Louisiana Pacific

Cf < 12" = 0.111, Cf > 12" = 0.143

1-3/4" to (4) 1-3/4" built-up or	1.5E SolidStart® LVL	2250	285	1.5	750	36	0.143
1-1/2" to (4) 1-1/2" built-up or	1.9E SolidStart® LVL	2650	285	1.9	750	36	0.143
3-1/2", 5-1/4" & 7"	2.0E SolidStart® LVL	2950	290	2.0	750	36	0.143

TJ Trus Joist (Weyerhaeuser "iLevel" products)

* Fc or 750 if from Plant #0579

1-3/4" to (4) 1-3/4" built-up	1.9 E (2.0E West) Microllam® LVL	2600	285	1.9 (2.0)	750	37	0.136
3-1/2" to 7"	2.0E Parallam® PSL East & West	2900	290	2.0	625*	45	0.111
3-1/2"	1.3E TimberStrand® LSL	1700	425	1.3	710	41	0.092
1-3/4", 3-1/2", (5-1/4x not available)	1.55E TimberStrand® LSL	2325	310	1.55	900	41	0.092

CC Chantiers Chibougamau

1-3/4", 2-1/2", 3-1/2", 5-1/2"	20F Value Nordic Lam	2000	250	1.6	450	35	n/a
1-3/4", 2-1/2", 3-1/2", 5-1/2", 7"	24F Select Nordic Lam	2400	250	1.9	560	35	n/a
3-1/2", 5-1/2", 7"	30F Ultra Nordic Lam	3000	250	2.2	650	37	n/a

WF West Fraser

1-1/4" to (4) 1-1/4" built-up	1.3E West Fraser LVL	1700	220	1.3	600	37	0.111
1-3/4" & 3-1/2"	1.7E West Fraser LVL	2750	290	1.7	700	37	0.111
1-3/4" to (4) 1-3/4" built-up	1.8E West Fraser LVL	3000	350	1.8	750	37	0.136
1-3/4" to (4) 1-3/4" built-up	2.0E West Fraser LVL	3100	350	2.0	750	37	0.111

RFP Roseburg Forest Products

1-3/4" to (4) 1-3/4" built-up	1.5E RigidLam LVL	2250	220	1.5	575	36	0.125
1-3/4" to (4) 1-3/4" built-up	2.0E RigidLam LVL	3100	290	2.0	750	36	0.125

RB Rosboro *Some products distributed by Weyerhaeuser*

3-1/2", 5-1/2" and 7"	BigBeam 30F-E/DF2 Hybrid LSL	3000	265	2.1	650	35	n/a
3-1/2", 5-1/2", 6-3/4", 8-3/4"	X - Beam, Glu-Lam 24f -V4	2400	265	1.8	650	35	n/a

Comply with each Manufacturer's Recommendations: Most require the following...

1. No notching or drilling allowed unless as approved by the manufacturer.
2. Provide continuous lateral support at top of member, or per manufacturer's recommendations.
3. Dry use condition only. BeamChek doesn't contain the Trus Joist Wolmanized® Parallam modifiers.
4. Multiple member build-up (bolting) only per manufacturer's recommendations.
5. Be aware of manufacturer's requirements for side loading members, especially built-up combo's.
6. End bearing recommendations vary between manufacturers. Verify with manufacturer's literature.
7. Most of the above products are manufactured without camber. Watch your dead load deflection!