

Structural Composite Lumber Values

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 are *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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Size Factor Cf = exponent of 12/d^4

Boise Cascade BC *formerly Boise, now back again to Boise Cascade*

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

Georgia Pacific GP

1-3/4" to (4) 1-3/4" built-up	G-P Lam® LVL	2900	285	2.0	750	37.5	0.111
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Chantiers Chibougamau CC

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

West Fraser WP *purchased International Paper Weldwood LVL*

1-1/4" to (4) 1-1/4" built-up	1.3E West Fraser LVL	1700	220	1.3	600	37	0.111
3-1/2"	1.7E West Fraser LVL	2750	300	1.7	750	37	0.111
1-3/4" to (4) 1-3/4" built-up	1.9E West Fraser LVL	3000	350	1.9	750	37	0.111
1-3/4" to (4) 1-3/4" built-up	2.0E West Fraser LVL	3100	350	2.0	750	37	0.111

Louisiana Pacific LP

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

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

Trus Joist TJ (Weyerhaeuser)

1-3/4" to (4) 1-3/4"	1.9 E Microllam® LVL	2600	285	1.9	750	37	0.136
1-3/4" thru 7"	2.0 E Parallam® PSL	2900	290	2.0	750	45	0.111
3-1/2" (≤ 8-5/8" depth)	1.3E TimberStrand® LSL	1700	400	1.3	680	41	0.092
3-1/2" (≥ 9-1/4" depth)	1.5E TimberStrand® LSL	2250	400	1.5	750	41	0.092
1-3/4", 3-1/2" (≥ 9-1/4")	1.55E TimberStrand® LSL	2325	310	1.55	800	41	0.092

Roseburg Forest Products RFP

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	2900	285	2.0	750	36	0.125

Most, but not every manufactured size has been included in BeamChek. Some depths require special order.

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!