

Structural Composite Lumber Values v2020

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 some 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 |
|--------------|---------|----|----|---|------|-----|----|
|--------------|---------|----|----|---|------|-----|----|

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 | 290 | 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)

| | | | | | | | |
|-------------------------------|---------------------------------------|------|-----|-----------|-----|----|-------|
| 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 (2.2E) 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", | 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 | 300 | 1.8 | 750 | 37 | 0.136 |
| 1-3/4" to (4) 1-3/4" built-up | 2.0E West Fraser LVL | 3100 | 300 | 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 (also Boise Cascade)* *255 on the 9-1/4 depth

| | | | | | | | |
|--------------------------------|-----------------------------|------|------|-----|-----|----|-----|
| 3-1/2", 5-1/2" and 7" | BigBeam 30F-E2M3 Hybrid LSL | 3000 | 265* | 2.1 | 650 | 36 | 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!

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