Georgia-Pacific

Engineered Lumber

1½″ 2.0E GP Lam®

Laminated Veneer Lumber (3000F_b)

Georgia-Pacific GP Lam® LVL with FiberGuard® coating offers protection from damaging moisture that causes splits, cupping and warping.

GP LAM® with FiberGuard®

Applications:

- **Manufactured housing marriage beams**
  - Long lengths for continuous spans
  - High stiffness and strength; good fastener holding abilities
- **Truss chords**
  - Long, straight chords; variety of depths for attic bottom chords
  - High tensile and bending strength
- **Wall framing**
  - Uniform walls for quality finish, easier kitchen and bathroom cabinet installation
  - Stiffness and strength for more demanding wall applications

Features and Benefits:

- **Quality you demand**
  - Consistent sizes. Minimal twisting, bowing and shrinking
- **FiberGuard® weather-resistant coating**
  - With UV inhibitors, offers protection from moisture during storage and construction
- **Lifetime limited warranty**
  - See manufacturer's warranty for terms, conditions and limitations (www.gp.com/build)
- **Technical support**
  - FASTBeam® beam-sizing software and design literature
  - Truss chord design values available in leading truss design software
- **Readily available**
  - From the leading building products distribution company in the industry

Specifications:

Available Depths:	3½″, 5½″, 7¼″, 7⅞″, 9¼″, 9½″, 11¼″, 11⅞″, 14″, 16″, 18″, 20″, 22″ and 24″
Available Lengths:	up to 60′

continued on reverse

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BlueLinx

4300 Wildwood Parkway
Atlanta, GA 30339

1-888-502-BLUE
www.BlueLinxCo.com

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1½″ 2.0E GP Lam® LVL Beam and Header Allowable Design Properties

Depth	EI (10^6 in^2 lbs)	Maximum Moment (ft-lbs)	Maximum Shear (lbs)	Weight (lbs/ft)	Unit Quantity (pcs)
3½″	11	878	998	1.4	65
5½″	42	2062	1568	2.2	40
7¼″	95	3474	2066	2.9	30
7⅞″	122	4062	2244	3.2	30
9¼″	198	5505	2636	3.8	25
9½″	214	5789	2708	3.9	25
11¼″	356	7967	3206	4.6	20
11⅞″	419	8824	3384	4.8	20
14″	686	12042	3990	5.7	15
16″	1024	15497	4560	6.5	15
18″	1458	19358	5130	7.3	10
20″	2000	23621	5700	8.1	10
22″	2662	28280	6270	8.9	10
24″	3456	33331	6840	9.8	10

NOTES:
1. Table assumes lateral support at bearing points and continuous lateral support along compression edge of beam.
2. 1½″ beams deeper than 12″ must only be used in multiple-ply members.
3. Allowable moment and shear are based on a load duration factor of 100% and may be increased for other durations in accordance with ANSI/AF&PA NDS.
4. Weight shown is for dead load calculatons. For shipping weights contact BlueLinx.

1½″ 2.0E GP Lam® Allowable Design Stresses[1]

Modulus of Elasticity	$E = 2.0 \times 10^6$ psi
Shear Modulus of Elasticity	$G = 125{,}000$ psi
Flexural Stress	$F_b = 3{,}000$ psi[2,3,4]
Horizontal Shear	$F_v = 285$ psi[3,4]
Compression Perpendicular to Grain	$F_{c\perp} = 845$ psi[3]
Compression Parallel to Grain	$F_{c\parallel} = 2{,}600$ psi[4]
Tension Parallel to Grain	$F_t = 1{,}825$ psi[4]
Equivalent Specific Gravity (lateral loads)	$SG = 0.50$

1. Allowable design stresses apply to depths as small as 3½″ ripped from any depth of beam.
2. For depths (d) other than 12″, multiply F_b by $(12/d)^{1/9}$
3. Allowable F_b, F_v and $F_{c\perp}$ are based on the member being used on edge, as it would be for a typical beam.
4. Allowable F_b, F_v, $F_{c\parallel}$ and F_t may be increased for duration of load in accordance with ANSI/AF&PA NDS.

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