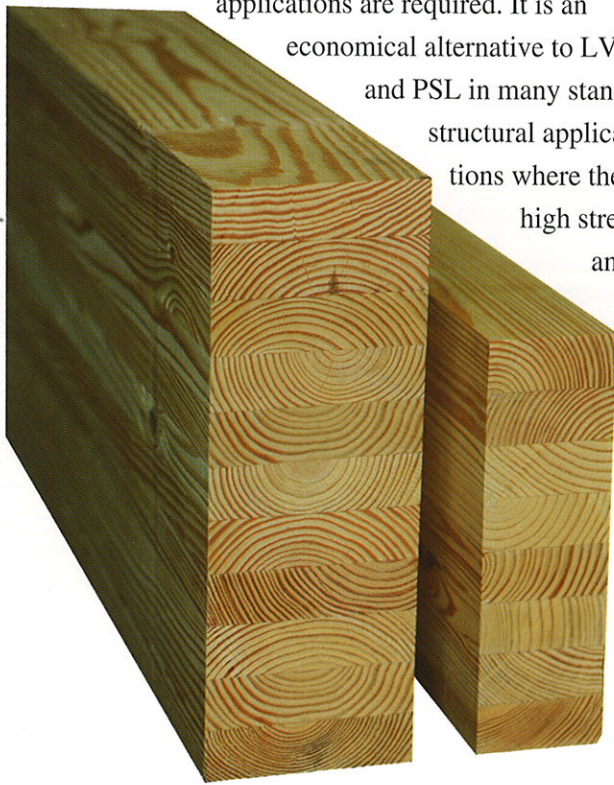


# Anthony 24F Glulam Advantages

- ◆ **Economical Beam & Header**
- ◆ **Architectural, Industrial & Framing Grades**
- ◆ **No nail laminating necessary**
- ◆ **Flexibility in design & installation**
- ◆ **Cambered or non-cambered**
- ◆ **Design stresses 2400Fb - 1.8E - 270Fv**
- ◆ **3 1/8", 3 1/2", 5 1/8", 5 1/2", 6 3/4", and 8 3/4" width**
- ◆ **Lighter than steel, LVL, and PSL**
- ◆ **Renewable resource**
- ◆ **Individually wrapped**

The Anthony 24F Glulam is a glued laminated beam and header used where reliable engineered wood applications are required. It is an economical alternative to LVL and PSL in many standard structural applications where the high strength and



stiffness values are not really needed. Anthony's 24F Glulam is readily available through stocking dealers. The 3-1/2" and 5-1/2" widths are available which readily match 2x4 and 2x6 wall framing. The Anthony 24F Glulam uses only readily-available Southern pine lumber, recognized through extensive testing as the strongest lumber resource available.

To enhance Anthony 24F Glulam quality further, all outer laminations have strict quality control procedures. Each beam has a specific lumber lay-up combination which optimizes Glulam performance. The highest strength lumber is placed in the tension and compression zones, efficiently and optimally using lumber resources.

The Anthony 24F Glulam can be used for window, door and garage door headers, floor edge and center girder beams, roof ridge beams, and commercial beams and purlins.

## Features

**Dimensional Stability:** Glulam is a laminated composite product of high-strength lumber. This randomizes any natural defects so there is greater beam strength and a higher degree of reliability. There is also less likelihood of warping, twisting, checking, cupping or shrinking.

**Moisture Control:** Anthony Glulam consistently averages 12% moisture, which is near equilibrium moisture content.

**Building Code Evaluations:** Adopted under all major material building codes.

**Fire Performance:** Glulam falls into the building code category of heavy timber, and therefore has excellent fire performance.

**Quality Assurance:** Glulam is manufactured in accordance with ANSI/AITC A190.1-1992 (Structural Glued Laminated Timber). Plant implemented Total Quality Management, statistical process control procedures and AITC as our quality assurance program ensure consistent quality and performance in every Glulam.

# Performance Comparison Tables

3-1/8" & 5-1/8" Widths - Standard Depths

## Glulam Conversions

Clear Span	Allowable PLF Load (LL/TL)	Beam Application	Anthony 24F Glulam	Multiple Lumber #1 SYP <sup>1</sup>	Multiple Lumber #1 DF-L <sup>2</sup>	Timbers #1 DF-L <sup>3</sup>
8'	600/900	Floor	3-1/8 x 9-5/8	3 ply - 2 x 12	3 ply - 2 x 12	6 x 12, 8 x 10
16'	450/650	Floor	5-1/8 x 12-3/8	6 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
24'	110/170	Floor	3-1/8 x 13-3/4	4 ply - 2 x 12	5 ply - 2 x 12	6 x 14, 8 x 12
8'	2400/2400	Roof (1.15)	3-1/8 x 13-3/4	5 ply - 2 x 12	6 ply - 2 x 12	10 x 14, 12 x 12
16'	550/760	Roof (1.15)	5-1/8 x 12-3/8	6 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
18'	480/640	Roof (1.15)	5-1/8 x 12-3/8	7 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
Clear Span	Allowable PLF Load (LL/TL)	Beam Application	Anthony 30F Glulam (30F <sub>b</sub> -2.1E-290F <sub>v</sub> )	LVL <sup>4</sup>	PSL <sup>5</sup>	Steel <sup>6</sup> 36 ksi
8'	600/900	Floor	3-1/2 x 7-1/4	2 ply - 1-3/4 x 7-1/4	3-1/2 x 7-1/4	W6 x 9, W8 x 10
16'	450/650	Floor	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-7/8	5-1/4 x 11-7/8	W10 x 12, W8 x 15
24'	110/170	Floor	3-1/2 x 14	2 ply - 1-3/4 x 14	3-1/2 x 14	W10 x 12, W12 x 14
8'	2400/2400	Roof (1.15)	3-1/2 x 11-1/4	2 ply - 1-3/4 x 11-7/8	3-1/2 x 11-7/8	W10 x 12, W8 x 13
16'	550/760	Roof (1.15)	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-1/4	5-1/4 x 11-1/4	W10 x 15, W12 x 14
18'	480/640	Roof (1.15)	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-7/8	5-1/4 x 11-7/8	W10 x 15, W12 x 14

# Performance Comparison Tables

3-1/2" & 5-1/2" Widths - Standard Depths

## Glulam Conversions

Clear Span	Allowable PLF Load (LL/TL)	Beam Application	Anthony 24F Glulam	Multiple Lumber #1 SYP <sup>1</sup>	Multiple Lumber #1 DF-L <sup>2</sup>	Timbers #1 DF-L <sup>3</sup>
8'	600/900	Floor	3-1/2 x 8-1/4	3 ply - 2 x 12	3 ply - 2 x 12	6 x 12, 8 x 10
16'	450/650	Floor	5-1/2 x 12-3/8	6 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
24'	110/170	Floor	3-1/2 x 13-3/4	4 ply - 2 x 12	5 ply - 2 x 12	6 x 14, 8 x 12
8'	2400/2400	Roof (1.15)	3-1/2 x 13-3/4	5 ply - 2 x 12	6 ply - 2 x 12	10 x 14, 12 x 12
16'	550/760	Roof (1.15)	5-1/2 x 11	6 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
18'	480/640	Roof (1.15)	5-1/2 x 12-3/8	7 ply - 2 x 12	8 ply - 2 x 12	8 x 14, 12 x 12
Clear Span	Allowable PLF Load (LL/TL)	Beam Application	Anthony 30F Glulam (30F <sub>b</sub> -2.1E-290F <sub>v</sub> )	LVL <sup>4</sup>	PSL <sup>5</sup>	Steel <sup>6</sup> 36ksi
8'	600/900	Floor	3-1/2 x 7-1/4	2 ply - 1-3/4 x 7-1/4	3-1/2 x 7-1/4	W6 x 9, W8 x 10
16'	450/650	Floor	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-7/8	5-1/4 x 11-7/8	W10 x 12, W8 x 15
24'	110/170	Floor	3-1/2 x 14	2 ply - 1-3/4 x 14	3-1/2 x 14	W10 x 12, W12 x 14
8'	2400/2400	Roof (1.15)	3-1/2 x 11-1/4	2 ply - 1-3/4 x 11-7/8	3-1/2 x 11-7/8	W10 x 12, W8 x 13
16'	550/760	Roof (1.15)	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-1/4	5-1/4 x 11-1/4	W10 x 15, W12 x 14
18'	480/640	Roof (1.15)	5-1/2 x 11-1/4	3 ply - 1-3/4 x 11-7/8	5-1/4 x 11-7/8	W10 x 15, W12 x 14

Design values used for conversion tables follow:

<sup>1</sup> Southern Pine #1 from National Design Specifications Supplement Table 4B

<sup>2</sup> Douglas Fir Larch #1 from National Design Specifications Supplement Table 4A

<sup>3</sup> Douglas Fir Larch #1 from National Design Specifications Supplement Table 4D

<sup>4</sup> LVL Design Values: F<sub>b</sub> =2925 psi, F<sub>v</sub> =285 psi, MOE=2,000,000 psi

<sup>5</sup> Parallam® Design Values: F<sub>b</sub> =2900 psi, F<sub>v</sub> =290 psi, MOE=2,000,000 psi  
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<sup>6</sup> Steel Design Values are based on 36 ksi steel using the Seventh Edition of the Steel Construction Manual

### Allowable Design Stresses

F <sub>b</sub> *	F <sub>t</sub>	F <sub>c</sub>	F <sub>v</sub>	MOE
2400	1150	740	240	1,800,000

For nominal 12" depths. For other depths:

$$C_v = K_L [(21/L)^{1/20} \times (12/d)^{1/20} \times (5.125/b)^{1/20}] \leq 1.0$$

For more information call:

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