

BUILD EFFICIENTLY WITH 24F STOCK GLULAM

**STRONG
SUSTAINABLE
EFFICIENT**

24F-V4 STOCK GLULAM

24F-V4 STOCK GLULAM FEATURES

- Fast, easy one-piece installation
- Manufactured with superior strength southern yellow pine lumber
- Excellent Fire Resistance
- Industrial Appearance Classification
- Ideal for single span, window, door, garage door headers or applications where appearance is not of primary importance
- Cost-efficient solution for load-bearing structural applications



Anthony Forest Products is part of the Canfor Group of Companies

24F-V4 DESIGN VALUES

Flexural Stress
 F_b
2400 psi

Modulus of Elasticity
 E
1,700,000 psi

Horizontal Shear
 F_v
140-175 psi *

Compression Prep
 F_{cprep}
740 psi

24F-V4 SECTION PROPERTIES AND ALLOWABLE CAPACITIES

Depth		11-7/8"	12-3/8"	13-3/4"	14"	15-1/8"	16"	16-1/2"	17-7/8"	19-1/4"	20-5/8"	22"	23-3/8"	24-3/4"
3-1/8"	Weight [lbs/ft.]	9.8	10.2	11.3	11.5	12.5	13.2	13.6	14.7	-	-	-	-	-
	C_{db} Factor (L=21')	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-
	Moment of Inertia I [in ⁴]	436	494	677	715	901	1067	1170	1487	-	-	-	-	-
	Moment Capacity M [ft-lbs]	14689	15952	19694	20417	23830	26667	28359	33283	-	-	-	-	-
	Shear Capacity [Lbs]	4329	4512	5013	5104	5514	5833	6016	6517	-	-	-	-	-
5-1/8"	Weight [lbs/ft.]	-	-	18.6	-	20.5	-	22.3	24.2	26.0	27.9	-	31.6	33.5
	C_{db} Factor (L=21')	-	-	0.99	-	0.99	-	0.98	0.980	0.977	0.973	-	0.967	0.964
	Moment of Inertia I [in ⁴]	-	-	1110	-	1478	-	1919	2439	3047	3747	-	5455	6474
	Moment Capacity M [ft-lbs]	-	-	32072	-	38631	-	45765	53492	61848	70708	-	90261	100878
	Shear Capacity [Lbs]	-	-	6577	-	7235	-	7893	8550	9208	9866	-	11181	11838

Unbalanced Lay-up

The strongest laminations in glulams are placed in the zones where tension and compression stresses are highest under in-service loading conditions.

Unbalanced lay-up beams have an asymmetrical lay-up, meaning that different grades of lumber are used in the top and bottom of the member. The word "Top" is stamped on the compression face of unbalanced beams, and the beam must be installed with the compression face upward. Unbalanced beams are designed primarily for use in simple span applications.

Camber

Camber is an initial curvature built into a fabricated member which is opposite to the calculated deflection which will occur under gravity loads. The use of camber in glulam beams also gives the designer the ability to account for the possible adverse effects of long-term deflection.

Canfor's 24F-V4, Non-Balanced lay-up has a standard camber of 2000' radius.

Industrial Appearance Classification

Used for concealed applications or where appearance is not of primary importance.

Power Sizer® Software

2400Fb glulam is available in iStruct® branded Power Sizer® software suite. To download the latest version of iStruct®, go to our website <https://www.anthonyforest.com/sizing-software.shtml> and download a copy at no charge.

Notes:

- Flexural stress F_b shall be modified by Volume Factor, C_v , as outlined in ICC ESR-1940, APA Product Report-L263 and APA-EWS Y117 where:

$$C_v = \left[\left(\frac{5.125}{b} \right)^{0.95} \times \left(\frac{12}{d} \right)^{0.95} \times \left(\frac{21}{L} \right)^{0.95} \right] \leq 1.0$$

$$C_v = \left[C_{db} \times \left(\frac{21}{L} \right)^{0.95} \right] \leq 1.0$$

- Width and depth portions of Volume Factor, C_v , are incorporated into tabulated C_{db} Volume Factor.
- Tabulated Moment capacities based on width and depth portions of Volume Factor

* Allowable Shear

3-1/8" Width $F_v = 175$ p.s.i.

5-1/8" Width $F_v = 140$ p.s.i.

Note: Allowable design properties and load capacities are based on a load duration of 100 percent and dry use conditions.



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