



Project Summary
Entire House
HOGLE'S HEATING & AIR

Job: RIVER RISE SPEC
Date: 08/16/06
By: W.D.HOGLE

Project Information

For: HAS BUILDERS INC.

Notes:

Design Information

Weather: Gainesville, FL , US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Building heat loss	44477 Btuh
Ventilation air	27 cfm
Ventilation air loss	1107 Btuh
Design heat load	45584 Btuh

Sensible Cooling Equipment Load Sizing

Structure	47585 Btuh
Ventilation	509 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.97
Total sens. equip. load	46651 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	1 (Average)

	Heating	Cooling
Area (ft²)	2455	2455
Volume (ft³)	22741	22741
Air changes/hour	0.70	0.35
Equiv. AVF (cfm)	265	133

Latent Cooling Equipment Load Sizing

Internal gains	1600 Btuh
Ventilation	961 Btuh
Infiltration	4664 Btuh
Total latent equip. load	8580 Btuh

Total equipment load	55231 Btuh
Req. total capacity at 0.70 SHR	5.6 ton

Heating Equipment Summary

Make	RUUD
Trade	
UPNE-030JAZ/UPNE-036JAZ	
Efficiency	8.5 HSPF
Heating input	
Heating output	71200 Btuh @ 47°F
Heating temp rise	30 °F
Actual heating fan	2200 cfm
Heating air flow factor	0.049 cfm/Btuh
Space thermostat	

Cooling Equipment Summary

Make	RUUD
Trade	
UPNE-030JAZ/UPNE-036JAZ	
UHSA-HM3017JA/UHSA-HM3617JA	
Efficiency	13 EER
Sensible cooling	45920 Btuh
Latent cooling	19680 Btuh
Total cooling	65600 Btuh
Actual cooling fan	2200 cfm
Cooling air flow factor	0.046 cfm/Btuh
Load sensible heat ratio	85 %

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



Short Form
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Design Information

	Htg	Clg	Infiltration	
Outside db (°F)	33	92	Method	Simplified
Inside db (°F)	70	75	Construction quality	Average
Design TD (°F)	37	17	Fireplaces	1 (Average)
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	52		

HEATING EQUIPMENT

Make RUUD
Trade
UPNE-030JAZ/UPNE-036JAZ

Efficiency 8.5 HSPF
Heating input
Heating output 71200 Btuh @ 47°F
Heating temperature rise 30 °F
Actual heating fan 2200 cfm
Heating air flow factor 0.049 cfm/Btuh

Space thermostat

COOLING EQUIPMENT

Make RUUD
Trade
UPNE-030JAZ/UPNE-036JAZ
UHSA-HM3017JA/UHSA-HM3617JA
Efficiency 13 EER
Sensible cooling 45920 Btuh
Latent cooling 19680 Btuh
Total cooling 65600 Btuh
Actual cooling fan 2200 cfm
Cooling air flow factor 0.046 cfm/Btuh

Load sensible heat ratio 85 %

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MASTER SUITE	323	8011	8812	396	407
MASTER BATHROOM	110	2086	589	103	27
MASTER CLOSET	90	935	236	46	11
NOOK	90	2327	2484	115	115
LIVING ROOM	323	4193	5255	207	243
FAMILY ROOM	240	5841	3967	289	183
OFFICE AREA	224	5981	6255	296	289
BEDROOM #2	176	1970	3881	97	179
BATH #2	80	579	210	29	10
BEDROOM #3	192	3432	3923	170	181
UTILITY ROOM	77	2297	2338	114	108
HALL/CLOSETS	96	190	252	9	12
ENTRY	64	1764	1816	87	84
DINING AREA	90	2832	2617	140	121
KITCHEN	154	1787	4621	88	214
WALK THRU AREA	126	250	331	12	15

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Entire House	d	2455	44477	47585	2200	2200
Ventilation air			1107	509		
Equip. @ 0.97 RSM				46651		
Latent cooling				8580		
TOTALS		2455	45584	55231	2200	2200

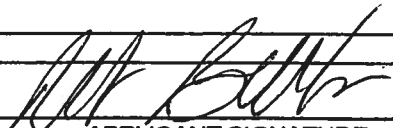
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PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR ENVELOPE PRODUCTS			
A.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.


APPLICANT SIGNATURE

17-7-06
DATE

Manufacturer	Description	FI Approval Number
Jeld-Wen, Inc	24 ga. Metal Clad Door	FL 498 FL 539
Thermatru	Fiberglass Classic Door	FL 1170.3-R1
Coosa		
Mid America Doors	16X7 Panel Garage door	FL 1945 FL 2382
MI Home Products	(Better Built) 36X60 Single Hung	FL 663 FL 987
	185 series single hung	FI 5108
Cem-Plank	Cement Board Siding	FL 889
James Hardie	Cement Board Siding	FL 889
Alcoa	Aluminum Soffit, Vented	FL 2641
Owens Corning	25 yr Arch. Shingle	FL 85
Tamko	Heritage AR 30 Shingle	FL 1956.3-R1
Woodland Industries	30 # roofing felt	FL 1814
Senco	1 1/4 inch Galv roofing nails	FL 2271
Georgia Pacific	Paralam beam/glue lam beam	FL 1008 FL 2023
Simpson Strong Tie	Fasteners Sp1	FL 474
	ABU44	FL 474.21
	H 2.5A	FL 503.5
	SPH4	FL 538
	H10	FI 474.109
	MSTA 24	FI 1901.57
	LSTA 24	FL 1901
	LGT2	FI 1423

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Anthony Glulam

24F IJC,
Industrial, and
Architectural Tables
1.6 Header
Power Column®

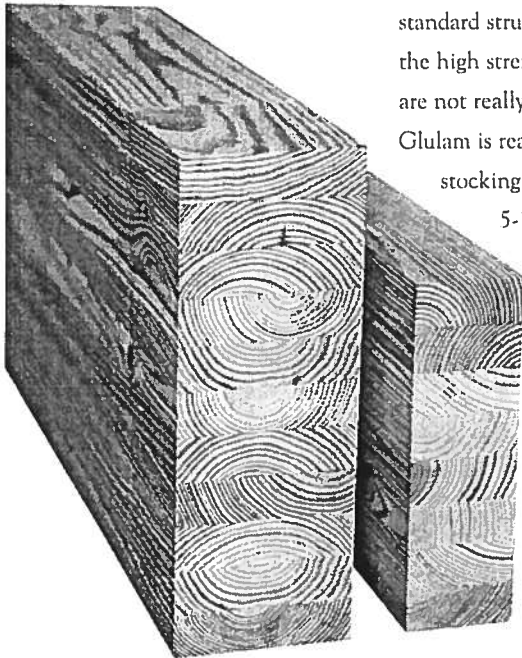


www.AnthonyForest.Com

Anthony 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 - 300Fv
- ◆ 3 1/8", 3 1/2", 5 1/8", 5 1/2", and 6 3/4" width
- ◆ Lighter than steel, LVL, and PSL
- ◆ Renewable resource
- ◆ Individually wrapped

The Anthony 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 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 Glulam uses only readily-available Southern pine lumber, recognized through extensive testing as the strongest lumber resource available.

To enhance Anthony 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 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/A190.1 (Structural Glued Laminated Timber). Plant implemented Total Quality Management, statistical process control procedures and APA - The Engineered Wood Association as our quality assurance program ensure consistent quality and performance in every Glulam.

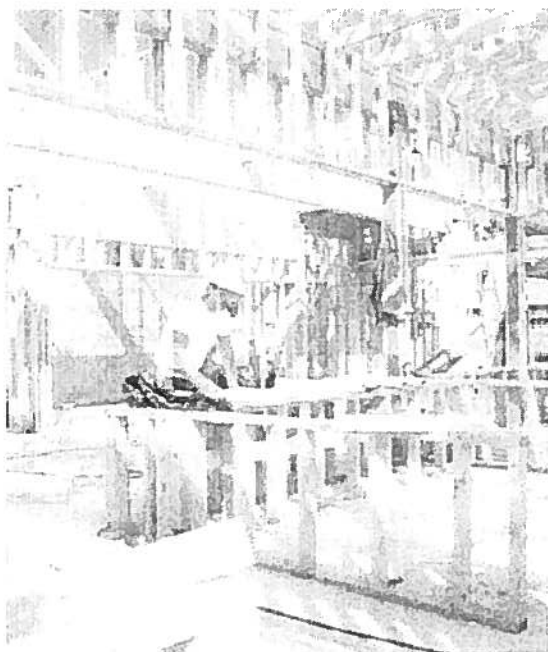
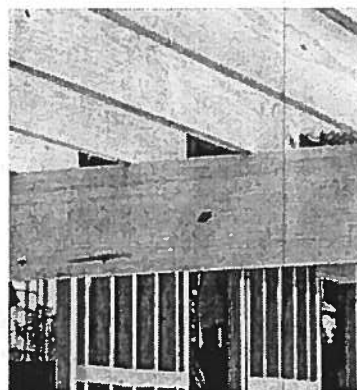
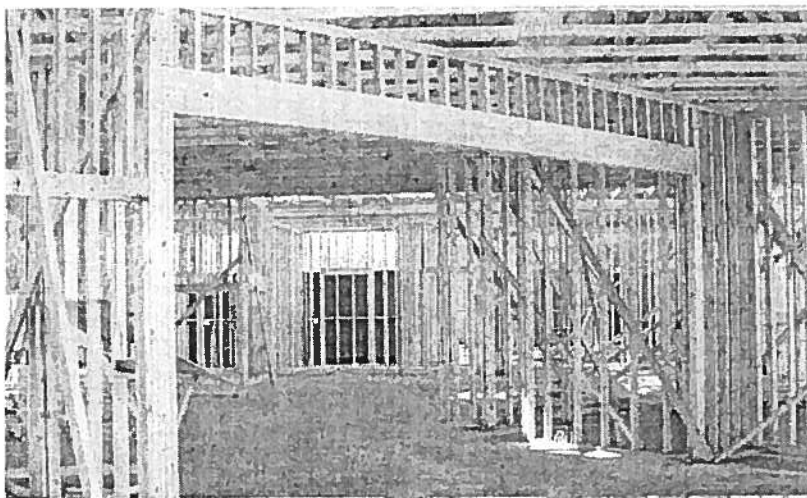


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About Anthony Forest Products Company

Anthony Forest Products is a completely integrated forest products company incorporated in 1965, and begun in 1916. The company owns approximately 83,500 acres of timberland in Arkansas, Louisiana, and Texas, and operates southern pine lumber producing mills in Urbana, Arkansas, and Atlanta, Texas; and wood chip mills in Plain Dealing, Louisiana, and Troup, Texas. The company also operates engineered wood laminating plants in El Dorado, Arkansas and Washington, Georgia. Anthony Forest and Dometar, Inc. of Montreal, Canada jointly own and

operate an I-joist manufacturing plant in Sault Ste. Marie, Ontario.

Our History

Headquartered in El Dorado, Arkansas, Anthony Forest has made some dramatic changes to position itself for the 21st Century. This vision could not have been accomplished without the four generations of forest products experience passed down through the family.

The company has applied its policy of environmental protection to its timberlands through adherence to Sustainable Forestry Initiative® through the American Forest and Paper Association. Our

land managers have received extensive training in the protection of threatened and endangered species, which may be encountered on the lands. We are committed to being a prudent steward of our lands through the next century.

Our two laminating plants make us the largest southern pine glued-laminated timber manufacturer in the USA. We have 35 years of solid experience in engineered wood products, which include the Power Beam®, Power Header®, Power Log®, Power Column™, Power Plank, 1.6 E Short Span Header and custom laminated products.

Sustainable Forestry Initiative

The Sustainable Forestry Initiative® (SFI) program is a comprehensive system of principles, objectives and performance measures developed by professional foresters, conservationists and scientists, among others that combines the perpetual growing and harvesting of trees with the long-term protection of wildlife, plants, soil and water quality. There are currently over 136 million acres of forestland in North America enrolled in the SFI® program, making it among the world's largest sustainable forestry programs.

Keeping our forests healthy is important. Healthy forests will continue to provide the wood and paper products that are vital to all of us while also ensuring that we have forests and wildlife for future generations of Americans. To ensure forests are protected, the American Forest & Paper Association (AF&PA) developed the SFI program to document the commitment of their members and the program's licensees keep our forests healthy and practice the highest level of sustainable forestry.

The SFI program was adopted by

AF&PA in 1994, and as a testament to the association's strong commitment to the goal of sustainable forestry, participation in the SFI program is a condition of membership for AF&PA. Since 1994, AF&PA has asked 17 members to leave the association for failing to meet the SFI Standard.

The SFI Program is overseen by the Sustainable Forestry Board (SFB), an independent 501(c)3 organization, which is responsible for maintaining and enhancing the SFI Standard and verification procedures. The SFB has 15 members, two-thirds of which come from a wide range of non-industry interests, including: environmental/conservation organizations; public officials (state and/or federal agencies); professional/academic groups; logging professional; non-industrial landowners. The remaining five representatives on the SFB consist of AF&PA members

Planting Trees for Healthy Forests

Reforestation is one key to sustainable forestry and maintaining healthy forestlands. Under the Sustainable Forestry Initiative program, companies

plant or grow more trees than are harvested each year. In fact, over one million acres are reforested each year under the SFI program.

Thanks to the hard work of the men and women working in our forests, we now have more forestland today than we did on the very first Earth Day in 1970.

Everybody Benefits from Sustainable Forestry

Simply stated, sustainable forestry is working with nature to ensure the future of the nation's forests for generations to come. The Sustainable Forestry Initiative program is based on the premise that responsible environmental practices and sound business practices can be integrated to the benefit of landowners, shareholders, customers and the people they serve.

The SFI program provides a means for foresters, landowners, loggers and wood and paper producers to satisfy the growing demand of the American people for environmental responsibility while still being able to produce – at an affordable price – the forest products upon which people have come to rely.

24F Design Properties

Flexural Stress, F_b , shall be modified by volume Factor, C_v , as outlined in ICC-ESR-1104, LA Cir. RR 25381, and AISC 117-Design where:

$$C_v = [(5.125/b)^{0.05} \times (12/d)^{0.05} \times (21/L)^{0.05}] \leq 1.0$$

24 F - V4 - 1.7E - HC Framing Depth

3 1/2" Beam Width (Fv=175)

Depth	9 1/2	11 7/8	14	16	18
Weight	8.8	11.0	12.9	14.8	16.6
C _v factor (L=21')	1.000	1.000	1.000	1.000	1.000
I (in ⁴)	250	488	800	1195	1701
Moment Capacity (Ft-lbs)	10520	16452	22867	29867	37800
Shear Capacity (lbs)	3879	4849	5717	6533	7350

5 1/2" Beam Width (Fv=140)

Depth	9 1/2	11 7/8	14	16	18
Weight	13.8	17.2	20.3	23.2	26.1
C _v factor (L=21')	1.008	0.997	0.989	0.982	0.976
I (in ⁴)	391	768	1258	1877	2673
Moment Capacity (Ft-lbs)	16546	25851	35933	46913	59400
Shear Capacity (lbs)	4877	6096	7187	8213	9240

6 3/4" Beam Width (Fv=140)

Depth	9 1/2	11 7/8	14	16	18
Weight	16.9	21.2	24.9	28.5	32.1
C _v factor (L=21')	0.998	0.987	0.979	0.972	0.967
I (in ⁴)	482	942	1544	2304	3281
Moment Capacity (Ft-lbs)	20106	31729	44100	57600	72900
Shear Capacity (lbs)	5985	7481	8820	10080	11140

24F - V4 - 1.7E - Industrial Stock Depth

3 1/8" Beam Width (Fv=175)

Depth	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8
Weight	6.8	7.9	9.1	10.2	11.3	12.5	13.6	14.7
C _v factor (L=21')	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000
I (in ⁴)	146	232	347	494	677	901	1170	1487
Moment Capacity (Ft-lbs)	7090	9650	12604	15952	19694	23830	28359	33283
Shear Capacity (lbs)	3008	3500	4010	4512	5013	5514	6016	6517

5 1/8" Beam Width (Fv=140)

Depth	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8
Weight	14.9	16.7	18.6	24.5	22.3	24.2	26.0	27.9	29.8	31.6
C _v factor (L=21')	1.004	0.998	0.993	0.980	0.984	0.980	0.977	0.973	0.970	0.967
I (in ⁴)	568	809	1110	2543	1919	2439	3047	3747	4548	5455
Moment Capacity (Ft-lbs)	20671	26162	32298	56121	46509	54584	63304	72671	82683	93342
Shear Capacity (lbs)	5262	5919	6577	8670	7893	8550	9208	9866	10523	11181

6 3/4" Beam Width (Fv=140)

Depth	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
Weight	14.7	17.1	19.6	22.0	24.5	26.9	29.4	31.8	34.3	36.7	39.2	41.6	44.1	46.5	49.0	51.4
C _v factor (L=21')	1.005	0.997	0.991	0.985	0.980	0.975	0.971	0.967	0.960	0.960	0.957	0.954	0.951	0.949	0.946	0.944
I (in ⁴)	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
Moment Capacity (Ft-lbs)	15314	20844	27225	34457	42539	51472	61256	71891	83377	95713	108900	122938	137827	153566	170156	187597
Shear Capacity (lbs)	5198	6064	6930	7796	8663	9529	10395	11261	12128	12994	13860	14726	15593	16459	17325	18191

24F - V3 - 1.8E - Architectural Stock Depth

3 1/8" Beam Width (Fv=300)

Depth	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8
Weight	6.8	7.9	9.1	10.2	11.3	12.5	13.6	14.7
C _v factor (L=21')	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000
I (in ⁴)	146	232	347	494	677	901	1170	1487
Moment Capacity (Ft-lbs)	7090	9650	12604	15952	19694	23830	28359	33283
Shear Capacity (lbs)	5156	6016	6875	7734	8594	9453	10313	11172

5 1/8" Beam Width (Fv=300)

Depth	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8
Weight	14.9	16.7	18.6	20.5	22.3	24.2	26.0	27.9	29.8	31.6
C _v factor (L=21')	1.004	0.998	0.993	0.988	0.984	0.980	0.977	0.973	0.970	0.967
I (in ⁴)	568	809	1110	1478	1919	2439	3047	3747	4548	5455
Moment Capacity (Ft-lbs)	20671	26162	32298	39081	46509	54584	63304	72671	82683	93342
Shear Capacity (lbs)	11275	12684	14094	15503	16913	18322	19731	21141	22550	23959

6 3/4" Beam Width (Fv=300)

Depth	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
Weight	14.7	17.1	19.6	22.0	24.5	26.9	29.4	31.8	34.3	36.7	39.2	41.6	44.1	46.5	49.0	51.4
C _v factor (L=21')	1.005	0.997	0.991	0.985	0.980	0.975	0.971	0.967	0.963	0.960	0.957	0.954	0.951	0.949	0.946	0.944
I (in ⁴)	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
Moment Capacity (Ft-lbs)	15314	20844	27225	34457	42539	51472	61256	71891	83377	95713	108900	122938	137827	153566	170156	187597
Shear Capacity (lbs)	11138	12994	14850	16706	18563	20419	22275	24131	25988	27844	29700	31556	33413	35269	37125	38981

24F V4 1.7E IJC Framing Grade

Allowable Floor Load Tables LDF=1.00

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Bearing length (in) (min. member thickness)
(e.g. 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

The tables can be used for simple spans, beams and headers that carry uniform loads. The tables are not to be calculated end-to-end, and assume all floor and roof framing loads coming onto the beam orthogonally. Glides allow live load reductions. See appropriate code section.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (tr)	3.5 Depth (in.)					5.5 Depth (in.)					6.75 Depth (in.)				
	9.5	11 7/8	14	16	18	9.5	11 7/8	14	16	18	9.5	11 7/8	14	16	18
6	1747	2402	3112	3898	4884	2199	3023	3915	4904	6144	2700	3712	4808	6021	7544
	1747	2402	3112	3898	4884	2199	3023	3915	4904	6144	2700	3712	4808	6021	7544
	3	3	4.5	4.5	6	3	3	3	4.5	6	3	3	3	4.5	6
7	1424	1922	2438	3001	3659	1793	2419	3068	3776	4604	2202	2970	3768	4637	5654
	1424	1922	2438	3001	3659	1793	2419	3068	3776	4604	2202	2970	3768	4637	5654
	3	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
8	1201	1601	2006	2435	2924	1512	2015	2525	3065	3680	1857	2475	3101	3775	4520
	1201	1601	2006	2435	2924	1512	2015	2525	3065	3680	1857	2475	3101	3775	4520
	3	3	4.5	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
9	1032	1371	1701	2048	2414	1307	1726	2144	2579	3064	1606	2121	2634	3168	3764
	864	1171	1701	2048	2414	1307	1726	2144	2579	3064	1606	2121	2634	3168	3764
	3	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
10	834	1199	1479	1767	2084	1151	1510	1863	2225	2624	1414	1855	2289	2734	3224
	630	1199	1479	1767	2084	990	1510	1863	2225	2624	1215	1855	2289	2734	3224
	3	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
11	688	1065	1307	1553	1821	1028	1341	1646	1956	2294	1263	1648	2023	2405	2819
	473	924	1307	1553	1821	744	1341	1646	1956	2294	913	1648	2023	2405	2819
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
12	539	904	1170	1385	1617	851	1206	1475	1745	2037	1046	1483	1812	2145	2504
	364	712	1166	1385	1617	573	1119	1475	1745	2037	703	1373	1812	2145	2504
	1.5	3	3	4.5	4.5	1.5	3	3	3	3	1.5	3	3	3	3
13	422	769	1060	1250	1454	668	1096	1335	1575	1832	821	1347	1641	1936	2252
	287	560	917	1250	1454	450	880	1335	1575	1832	553	1080	1641	1936	2252
	1.5	3	3	4.5	4.5	1.5	3	3	3	3	1.5	3	3	3	3
14	336	662	921	1138	1320	533	1004	1220	1435	1664	656	1234	1500	1764	2045
	230	448	735	1006	1320	361	704	1154	1435	1664	443	865	1417	1764	2045
	1.5	3	3	4.5	4.5	1.5	3	3	3	3	1.5	3	3	3	3
15	272	537	801	1045	1209	432	849	1122	1317	1524	532	1044	1380	1620	1874
	187	364	597	891	1209	293	573	939	1317	1524	360	703	1152	1620	1874
	1.5	3	3	4.5	4.5	1.5	3	3	3	3	1.5	3	3	3	3
16	223	440	703	919	1114	354	699	1039	1217	1405	437	859	1278	1497	1728
	154	300	492	735	1046	242	472	773	1154	1405	297	579	949	1417	1728
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	3	1.5	1.5	3	3	3
17	184	366	603	813	1030	294	580	955	1131	1304	363	714	1175	1392	1604
	128	250	410	612	872	201	393	645	962	1304	247	483	791	1181	1604
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	3	1.5	1.5	3	3	3
18	154	306	506	723	917	247	487	803	1057	1216	304	600	988	1300	1496
	108	211	346	516	735	170	331	543	811	1154	208	407	667	995	1417
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	3	1.5	1.5	3	3	3
19	130	259	429	644	822	208	413	681	991	1139	258	509	838	1220	1401
	92	179	294	439	625	144	282	462	689	981	177	346	567	846	1205
	1.5	1.5	3	3	3	1.5	1.5	3	3	3	1.5	1.5	3	3	3
20	110	221	366	550	740	178	352	582	873	1071	220	435	717	1074	1318
	79	154	252	376	536	124	242	396	591	842	152	297	486	725	1033
	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3
21	94	189	314	473	670	152	303	501	752	1010	189	374	618	926	1244
	68	133	218	325	463	107	209	342	511	727	131	256	420	627	892
	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3
22	81	163	272	410	587	131	262	434	652	932	163	324	536	801	1148
	59	116	189	283	402	93	182	297	444	632	114	223	365	545	776
	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3
23	70	142	236	357	512	114	228	378	569	814	142	282	467	701	1003
	52	101	166	247	352	81	159	260	389	553	100	195	319	477	679
	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3
24	60	123	207	312	449	99	200	332	499	714	124	247	410	616	880
	46	89	146	218	310	72	140	229	342	487	88	172	281	420	598
	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	3
25	52	108	182	275	395	87	176	292	440	630	109	218	361	543	777
	40	79	129	193	274	63	124	203	303	431	78	152	249	371	529
	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	3	1.5	1.5	1.5	1.5	3
S [in']	52.6	82.3	114.3	149.3	189.0	82.7	129.3	179.7	234.7	297.0	101.5	158.6	220.5	288.0	364.5
I [in ⁴]	250	488	800	1195	1701	393	768	1258	1877	2673	482	942	1544	2304	3281
M [ft-lb]	10529	16452	22867	29867	37800	16546	25853	35933	46933	59400	20306	31729	44100	57600	72900
V [lb]	3879	4849	5717	6533	7350	4877	6096	7187	8213	9240	5985	7481	8820	10080	11340

24F V4 1.7E DC Framing Grade

Allowable Roof Load Tables LDF=1.15

Key: For each clear span there are three numbers:

Row 1: Maximum Total Load with LDF=1.15, and deflection limited to $L/240$

Row 2: Maximum Live Load limited by deflection of $L/240$

Row 3: Required Bearing length in trimer thickness (e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The RLLF loads must be calculated and distributed across all floor and roof framing, including joists, into the beam or header.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (tr)	3.5 Depth (in.)					5.5 Depth (in.)					6.75 Depth (in.)				
	9.5	11 7/8	14	16	18	9.5	11 7/8	14	16	18	9.5	11 7/8	14	16	18
6	2010	2764	3580	4484	5619	2524	3471	4497	5633	7059	3098	4260	5518	6913	8662
	2010	2764	3580	4484	5619	2524	3471	4497	5633	7059	3098	4260	5518	6913	8662
	3	4.5	4.5	6	7.5	3	3	4.5	4.5	6	3	3	4.5	4.5	6
7	1619	2211	2805	3453	4210	2057	2776	3523	4336	5288	2525	3407	4323	5321	6488
	1619	2211	2805	3453	4210	2057	2776	3523	4336	5288	2525	3407	4323	5321	6488
	3	3	4.5	6	6	3	3	4.5	4.5	6	3	3	4.5	4.5	6
8	1382	1842	2308	2803	3365	1735	2312	2898	3519	4225	2129	2838	3556	4318	5184
	1382	1842	2308	2803	3365	1735	2312	2898	3519	4225	2129	2838	3556	4318	5184
	3	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
9	1188	1578	2055	2558	3001	1499	1981	2460	2960	3517	1840	2431	3019	3632	4315
	1188	1578	2055	2558	3001	1499	1981	2460	2960	3517	1840	2431	3019	3632	4315
	3	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
10	961	1380	1802	2234	2699	1319	1732	2137	2553	3011	1619	2125	2622	3133	3694
	961	1380	1802	2234	2699	1319	1732	2137	2553	3011	1619	2125	2622	3133	3694
	3	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	3	4.5
11	793	1226	1727	2188	2697	1178	1538	1888	2244	2621	1445	1887	2316	2753	3228
	793	1226	1727	2188	2697	1178	1538	1888	2244	2621	1445	1887	2316	2753	3228
	3	3	4.5	4.5	4.5	3	3	3	4.5	4.5	3	3	3	3	4.5
12	665	1041	1348	1595	1862	1044	1383	1691	2001	2336	1281	1697	2074	2455	2866
	665	1041	1348	1595	1862	1044	1383	1691	2001	2336	1281	1697	2074	2455	2866
	3	3	4.5	4.5	4.5	3	3	3	3	4.5	3	3	3	3	4.5
13	565	886	1220	1440	1674	888	1256	1530	1805	2100	1089	1541	1877	2215	2576
	565	886	1220	1440	1674	888	1256	1530	1805	2100	1089	1541	1877	2215	2576
	1.5	3	4.5	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
14	451	762	1061	1311	1520	708	1150	1397	1644	1907	869	1411	1714	2027	2339
	451	762	1061	1311	1520	708	1150	1397	1644	1907	869	1411	1714	2027	2339
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
15	365	663	923	1204	1392	573	1041	1286	1509	1746	704	1277	1577	1851	2141
	365	663	923	1204	1392	573	1041	1286	1509	1746	704	1277	1577	1851	2141
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
16	300	581	810	1059	1284	470	913	1190	1394	1609	577	1120	1460	1710	1974
	300	581	810	1059	1284	470	913	1190	1394	1609	577	1120	1460	1710	1974
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
17	248	491	716	937	1187	390	771	1108	1295	1493	478	946	1359	1589	1831
	248	491	716	937	1187	390	771	1108	1295	1493	478	946	1359	1589	1831
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
18	208	412	617	834	1057	326	647	1001	1209	1391	401	794	1228	1483	1706
	208	412	617	834	1057	326	647	1001	1209	1391	401	794	1228	1483	1706
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
19	176	349	571	747	947	276	548	897	1134	1303	338	672	1100	1391	1598
	176	349	571	747	947	276	548	897	1134	1303	338	672	1100	1391	1598
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
20	149	298	492	673	853	234	467	773	1057	1225	288	571	948	1297	1502
	149	298	492	673	853	234	467	773	1057	1225	288	571	948	1297	1502
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
21	128	256	423	609	773	201	401	665	957	1155	246	492	816	1174	1417
	128	256	423	609	773	201	401	665	957	1155	246	492	816	1174	1417
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
22	110	221	367	551	703	173	347	576	866	1093	212	426	706	1062	1354
	110	221	367	551	703	173	347	576	866	1093	212	426	706	1062	1354
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
23	96	192	319	481	641	150	302	502	755	1008	184	370	615	926	1236
	96	192	319	481	641	150	302	502	755	1008	184	370	615	926	1236
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
24	81	166	280	421	588	130	264	439	662	924	160	323	538	812	1132
	81	166	280	421	588	130	264	439	662	924	160	323	538	812	1132
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
25	71	147	246	371	512	114	231	386	583	837	139	284	474	715	1026
	71	147	246	371	512	114	231	386	583	837	139	284	474	715	1026
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
S (in')	52.6	82.3	114.3	149.3	189.0	82.7	129.3	179.7	234.7	297.0	101.5	158.6	220.5	288.0	364.5
I (in ⁴)	250	488	800	1195	1701	393	768	1258	1877	2673	482	942	1544	2304	3281
M (ft-lb)	12109	18920	26297	34347	43470	19028	29731	41323	53973	68310	23352	36488	50715	66240	83835
V (lb)	4461	5576	6574	7513	8453	5608	7010	8265	9445	10626	6883	8603	10143	11592	13041

24F V4 1.7E DC Framing Grade

Allowable Roof Load Tables LDF=1.25

Notes for each clear span there are three numbers:

Row 1: Maximum live load in PSF (1.7E) and deflection limited to L/180

Row 2: Minimum live load in PSF (0.5) deflection of L/240

Row 3: Required structural depth in inches (thickness of joist) L/S = 1 dimension 3.0, 2 minimum sizes

These tables can be used to size simple span beams and headers that carry uniform loads. The LDF loads are calculated and take into account all floor and roof frame loads being applied into the beam or header.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (in.)	3.5 Depth (in.)					5.5 Depth (in.)					6.75 Depth (in.)				
	9.5	11 7/8	14	16	18	9.5	11 7/8	14	16	18	9.5	11 7/8	14	16	18
6	2186	3005	3892	4876	6109	2745	3775	4889	6125	7675	3369	4632	6000	7517	9420
	2186	3005	3892	4876	6109	2745	3775	4889	6125	7675	3369	4632	6000	7517	9420
	1	4.5	4.5	6	7.5	3	3	4.5	4.5	6	3	3	4.5	6	6
7	1782	2404	3051	3734	4578	2238	3019	3831	4715	5750	2746	3705	4701	5787	7057
	1782	2404	3051	3734	4578	2238	3019	3831	4715	5750	2746	3705	4701	5787	7057
	3	4.5	4.5	6	7.5	3	3	4.5	4.5	6	3	3	4.5	4.5	6
8	1503	2003	2510	3048	3659	1887	2515	3151	3827	4595	2315	3086	3867	4697	5640
	1503	2003	2510	3048	3659	1887	2515	3151	3827	4595	2315	3086	3867	4697	5640
	1	4.5	4.5	6	6	3	3	4.5	4.5	4.5	3	3	4.5	4.5	4.5
9	1292	1716	2132	2564	3046	1631	2154	2676	3219	3725	2001	2644	3283	3951	4695
	1292	1716	2132	2564	3046	1631	2154	2676	3219	3725	2001	2644	3283	3951	4695
	1	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
10	1045	1501	1852	2213	2609	1435	1894	2324	2777	3275	1761	2312	2852	3409	4020
	1045	1501	1852	2213	2609	1435	1894	2324	2777	3275	1761	2312	2852	3409	4020
	1	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
11	862	1333	1637	1945	2281	1281	1673	2054	2441	2862	1572	2053	2520	2996	3513
	710	1333	1637	1945	2281	1115	1673	2054	2441	2862	1572	2053	2520	2996	3513
	1	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
12	721	1132	1466	1735	2025	1112	1504	1819	2177	2541	1390	1846	2257	2673	3120
	547	1068	1466	1735	2025	859	1504	1819	2177	2541	1054	1846	2257	2673	3120
	3	3	4.5	4.5	6	3	3	3	4.5	4.5	3	3	3	4.5	4.5
13	565	963	1327	1566	1821	888	1366	1665	1965	2285	1090	1677	2043	2411	2805
	430	840	1327	1566	1821	676	1320	1665	1965	2285	829	1620	2043	2411	2805
	1.5	3	4.5	4.5	6	1.5	3	3	4.5	4.5	1.5	3	3	4.5	4.5
14	451	829	1155	1427	1654	708	1251	1521	1789	2075	869	1536	1866	2196	2547
	344	672	1102	1427	1654	541	1057	1521	1789	2075	664	1297	1866	2196	2547
	1.5	3	4.5	4.5	4.5	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5
15	365	719	1004	1310	1515	573	1129	1399	1642	1900	704	1386	1716	2016	2332
	280	547	896	1310	1515	440	859	1399	1642	1900	540	1054	1716	2016	2332
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
16	300	591	881	1153	1397	470	928	1295	1517	1751	577	1138	1589	1862	2150
	231	450	738	1102	1397	362	708	1160	1517	1751	445	869	1424	1862	2150
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
17	248	491	779	1019	1292	390	771	1206	1410	1625	478	946	1479	1731	1995
	192	376	615	919	1292	302	590	967	1410	1625	371	724	1187	1731	1995
	1.5	3	3	4.5	4.5	1.5	3	3	3	4.5	1.5	3	3	3	4.5
18	208	412	679	908	1151	326	647	1067	1317	1515	401	794	1309	1616	1860
	162	316	518	774	1102	255	497	815	1216	1515	312	610	1000	1492	1860
	1.5	1.5	3	4.5	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
19	176	349	576	813	1031	276	548	906	1235	1418	338	672	1109	1515	1741
	138	269	441	658	937	216	423	693	1074	1418	266	519	850	1269	1741
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
20	149	298	492	733	929	234	467	773	1151	1333	288	573	948	1413	1637
	118	231	378	564	803	186	362	594	887	1262	228	445	729	1088	1549
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
21	128	256	423	636	841	201	401	665	999	1258	246	492	816	1226	1545
	102	199	326	487	694	160	313	513	766	1090	197	384	630	940	1336
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
22	110	221	367	551	764	173	347	576	866	1190	212	426	706	1062	1462
	89	173	284	424	603	139	272	446	666	948	171	334	548	817	1164
	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5	1.5	1.5	3	3	4.5
23	96	192	319	481	688	150	302	502	755	1082	184	370	615	926	1328
	78	152	248	371	528	122	238	390	583	830	150	292	479	715	1019
	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	3	4.5
24	83	166	280	421	604	130	264	439	662	949	160	323	538	812	1165
	68	133	219	326	465	107	210	344	513	730	132	257	422	630	896
	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3
25	73	147	246	371	532	114	231	386	583	837	139	284	474	715	1026
	60	118	194	289	411	95	186	304	454	646	117	228	371	557	793
	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3	1.5	1.5	1.5	3	3
S [m']	52.6	82.3	114.3	149.3	189.0	82.7	129.3	179.7	234.7	297.0	101.5	158.6	220.5	288.0	364.5
T [m']	250	488	800	1195	1701	393	768	1258	1877	2673	482	942	1544	2304	3281
M [ft-lb]	13161	20565	28583	37333	47250	20682	32316	44917	58667	74250	25383	39661	55125	72000	91125
V [lb]	4949	6061	7146	8167	9188	6096	7620	8983	10267	11550	7481	9352	11025	12600	14175

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Allowable Floor Load Tables LDF=1.00

Notes for each deck span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0 and deflection limited to L/240

Row 2: Maximum Live Load limited by Deflection of L/360

Row 3: Required Bearing Length in inches (see Notes)

(e.g. 1.5 = 1 trimmer, LDF = 2 trimmers, etc.)

These tables can be used to size Simpson beams and headers that carry uniform loads. The LDF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or header. Codes do allow live load reductions. See appropriate code section.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot																						
Simple Span (ft)	3 1/8											5 1/8										
	Depth (in.)											Depth (in.)										
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8				11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	
6	1294	1588	1916	2281	2692	3157	3688	4300				2510	2989	3528	4138	4834	5616	6570	7671	8989	10595	
	1294	1588	1916	2281	2692	3157	3688	4300				2510	2989	3528	4138	4834	5616	6570	7671	8989	10595	
	3	3	3	4.5	4.5	4.5	6	7.5				3	3	3	4.5	4.5	6	6	7.5	9	10.5	
7	1062	1293	1543	1817	2118	2449	2817	3226				2022	2381	2775	3209	3691	4228	4830	5510	6283	7171	
	1424	1293	1543	1817	2118	2449	2817	3226				2022	2381	2775	3209	3691	4228	4830	5510	6283	7171	
	3	3	3	3.0	4.5	4.5	4.5	6				3	3	3	4.5	4.5	4.5	6	6	7.5		
8	879	1089	1291	1509	1745	2000	2278	2581				1691	1977	2285	2620	2984	3381	3817	4296	4826	5416	
	719	1089	1291	1509	1745	2000	2278	2581				1691	1977	2285	2620	2984	3381	3817	4296	4826	5416	
	3	3	3	3	4.5	4.5	4.5	6				3	3	3	4.5	4.5	4.5	6	6	7.7		
9	693	941	1110	1290	1483	1689	1911	2150				1453	1689	1942	2212	2503	2815	3153	3519	3916	4349	
	505	941	1110	1290	1483	1689	1911	2150				1453	1689	1942	2212	2503	2815	3153	3519	3916	4349	
	1.5	3	3	3	3	3.5	4.5	4.5				3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	
10	545	764	1479	1126	1289	1462	1646	1841				1273	1474	1687	1914	2154	2411	2685	2978	3293	3631	
	368	585	873	1126	1289	1462	1646	1841				1273	1474	1687	1914	2154	2411	2685	2978	3293	3631	
	3	3	3	3	3	3.5	4.5	4.5				3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	
11	408	630	824	999	1140	1288	1444	1610				1133	1107	1491	1685	1890	2107	2337	2580	2839	3115	
	277	439	656	934	1281	1288	1444	1610				1076	1307	1491	1685	1890	2107	2337	2580	2839	3115	
	1.5	3	3	3	3	3.5	4.5	4.5				3	3	3	3	4.5	4.5	4.5	4.5	6	6	
12	313	500	691	876	1021	1151	1287	1430				1020	1174	1336	1505	1684	1871	2068	2276	2495	2727	
	213	338	505	719	987	1151	1287	1430				828	1174	1336	1505	1684	1871	2068	2276	2495	2727	
	1.5	1.5	3	3	3	3	3.5	4.5				1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	
13	244	391	587	745	921	1040	1160	1286				927	1065	1209	1360	1517	1682	1854	2035	2224	2424	
	168	266	397	566	776	1033	1160	1286				652	928	1209	1360	1517	1682	1854	2035	2224	2424	
	1.5	1.5	3	3	3	3	3.5	4.5				1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	
14	194	312	468	641	792	948	1055	1168				767	975	1104	1240	1380	1527	1680	1839	2006	2181	
	134	213	318	453	621	827	1055	1168				522	743	1019	1240	1380	1527	1680	1839	2006	2181	
	1.5	3	3	3	3	3	3.5	4.5				1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	
15	157	252	379	542	689	834	968	1069				621	889	1016	1139	1266	1398	1535	1678	1827	1981	
	109	173	259	368	505	672	873	1069				424	604	828	1103	1266	1398	1535	1678	1827	1981	
	1.5	3	3	3	3	3	3	3.5				1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	
16	128	206	310	445	604	732	872	986				509	729	940	1052	1168	1289	1413	1542	1676	1815	
	90	143	213	303	416	554	719	915				350	498	683	909	1168	1289	1413	1542	1676	1815	
	1.5	1.5	3	3	3	3	3	3.5				1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	
17	105	170	257	369	509	647	771	906				422	605	835	978	1085	1195	1309	1426	1548	1674	
	75	119	178	253	347	462	600	762				291	415	569	758	983	1195	1309	1426	1548	1674	
	1.5	1.5	1.5	1.5	3	3	3	3.5				1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	
18	88	142	215	309	427	571	686	807				353	507	700	914	1012	1114	1218	1326	1438	1553	
	63	100	150	213	292	389	505	642				245	350	479	638	828	1053	1218	1326	1438	1553	
	1.5	1.5	1.5	1.5	3	3	3	3.5				1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	
19	74	120	182	261	361	483	614	722				298	429	592	793	948	1043	1139	1239	1342	1448	
	54	85	127	181	249	331	430	546				209	297	408	543	704	896	1119	1239	1342	1448	
	1.5	1.5	1.5	1.5	1.5	3	3	3.5				1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	
20	62	102	154	223	308	413	538	651				253	365	505	677	883	980	1070	1163	1258	1356	
	46	71	109	155	211	284	368	468				179	255	350	465	604	768	959	1163	1258	1356	
	1.5	1.5	1.5	1.5	1.5	3	3	3				1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	
21	53	87	132	191	265	355	463	589				217	313	434	582	760	924	1008	1095	1184	1275	
	40	63	94	134	184	245	318	404				155	220	302	402	522	663	828	1019	1184	1275	
	1.5	1.5	1.5	3	3	3	3.5	4.5				1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	
22	45	74	114	165	229	307	401	513				186	270	375	503	658	841	953	1034	1117	1203	
	35	55	82	117	160	213	277	352				134	191	263	350	454	577	721	886	1076	1203	
	1.5	1.5	1.5	1.5	1.5	3	3	3.5				1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	
23	38	64	98	143	199	267	349	447				161	234	326	438	573	733	904	980	1058	1148	
	30	48	72	102	140	187	242	308				118	168	230	306	397	505	631	776	941	1129	
	1.5	1.5	1.5	1.5	1.5	1.5	3	3				1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	
24	33	55	85	124	173	233	306	391				140	204	284	383	501	642	806	931	1005	1080	
	27	42	63	90	123	164	213	271				104	147	202	269	350	444	555	683	828	994	
	1.5	1.5	1.5	1.5	1.5	1.5	3	3				1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	
25	28	48	74	109	152	205	269	344				122	179	249	336	441	565	710	869	956	1027	
	24	37	56	80	109	145	189	240				92	130	179	238	309	393	491	604	733	879	
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3				1.5	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	
Sum	35.4	48.3	63.0	79.8	98.5	119.1	141.8	166.4				103.4	130.8	161.5	195.4	232.5	272.9	316.5	363.4	413.4	466.7	
L (in)	146	232	347	494	677	901	1170	1487				568	809	1110	1478	1919	2439	3047	3747	4548	5455	
M (in)	7090	9650	12604	15952	19694	23830	28359	33283				20671	26162	32298	39081	46509	54584	63304	72671	82683	93342	
V (lb)	3008	3509	4010	4512	5013	5514	6016	6517				5262	5919	6577	7235	7893	8550	9208	9866	10523	11181	

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Allowable Floor Load Tables LDF=1.00

Key: for each stock span there are three numbers:

Row 1: Minimum Total Load with LDF=1.0 and deflection limited to L/240

Row 2: Maximum Live Load limited to deflection of L/360

Row 3: Required bearing stiffener in minimum thickness
(e.g. 1.5 = 1 1/2" minimum, 3.0 = 3" minimum, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The LDF loads must be calculated and take into account all floor and roof framing loads coming into the beam or header. Credits do not allow live load reductions. See appropriate code sections.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	6.75															
	Depth (in.)															
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
6	2212	2741	3306	3937	4647	5450	6367	7423	8653	10104	11840	13954	16587	19953	24409	30585
	2212	2741	3306	3937	4647	5450	6367	7423	8653	10104	11840	13954	16587	19953	24409	30585
	1.5	3	3	3	3	4.5	4.5	6	6	7.5	9	10.5	12	15	18	24
7	1813	2210	2662	3135	3655	4227	4862	5569	6362	7257	8276	9445	10802	12394	14288	16579
	1813	2210	2662	3135	3655	4227	4862	5569	6362	7257	8276	9445	10802	12394	14288	16579
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	10.5	12	13.5
8	1554	1879	2227	2603	3010	3451	3930	4453	5027	5658	6357	7134	8002	8981	10091	11361
	1554	1879	2227	2603	3010	3451	3930	4453	5027	5658	6357	7134	8002	8981	10091	11361
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	9	9	10.5
9	1348	1622	1914	2225	2557	2914	3296	3708	4153	4634	5157	5728	6352	7038	7795	8536
	1348	1622	1914	2225	2557	2914	3296	3708	4153	4634	5157	5728	6352	7038	7795	8536
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	7.5	7.5	7.5	9
10	1178	1427	1677	1942	2222	2520	2837	3175	3536	3922	4337	4782	5263	5783	6347	6961
	1178	1427	1677	1942	2222	2520	2837	3175	3536	3922	4337	4782	5263	5783	6347	6961
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	7.5	7.5	7.5	7.5
11	881	1273	1492	1722	1964	2220	2490	2775	3078	3399	3740	4103	4491	4905	5350	5827
	881	1273	1492	1722	1964	2220	2490	2775	3078	3399	3740	4103	4491	4905	5350	5827
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5
12	675	1079	1343	1546	1759	1963	2217	2464	2724	2997	3286	3592	3915	4258	4622	5009
	675	1079	1343	1546	1759	1963	2217	2464	2724	2997	3286	3592	3915	4258	4622	5009
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	7.5
13	528	845	1221	1403	1593	1791	1998	2215	2442	2680	2930	3192	3469	3760	4067	4391
	528	845	1221	1403	1593	1791	1998	2215	2442	2680	2930	3192	3469	3760	4067	4391
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	6	6	6	6
14	420	671	1011	1284	1455	1633	1818	2011	2212	2423	2642	2872	3113	3365	3629	3907
	420	671	1011	1284	1455	1633	1818	2011	2212	2423	2642	2872	3113	3365	3629	3907
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	6	6	6
15	338	544	818	1171	1338	1499	1667	1841	2022	2210	2406	2610	2822	3044	3276	3519
	338	544	818	1171	1338	1499	1667	1841	2022	2210	2406	2610	2822	3044	3276	3519
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	6	6	6
16	276	445	670	961	1239	1386	1539	1697	1861	2031	2207	2391	2581	2779	2985	3199
	276	445	670	961	1239	1386	1539	1697	1861	2031	2207	2391	2581	2779	2985	3199
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	6	6	6
17	228	368	556	797	1099	1289	1429	1574	1723	1878	2039	2205	2377	2555	2740	2932
	228	368	556	797	1099	1289	1429	1574	1723	1878	2039	2205	2377	2555	2740	2932
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6	6
18	190	307	465	668	922	1204	1333	1467	1605	1747	1894	2045	2202	2365	2532	2706
	190	307	465	668	922	1204	1333	1467	1605	1747	1894	2045	2202	2365	2532	2706
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6	6
19	159	259	392	565	760	1044	1249	1373	1501	1632	1758	1907	2051	2200	2353	2512
	159	259	392	565	760	1044	1249	1373	1501	1632	1758	1907	2051	2200	2353	2512
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6	6
20	134	219	333	481	665	891	1162	1291	1409	1531	1657	1786	1919	2056	2197	2343
	134	219	333	481	665	891	1162	1291	1409	1531	1657	1786	1919	2056	2197	2343
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6
21	114	187	285	412	571	766	1001	1217	1328	1442	1559	1679	1803	1930	2060	2195
	114	187	285	412	571	766	1001	1217	1328	1442	1559	1679	1803	1930	2060	2195
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6
22	97	160	246	356	494	663	866	1107	1256	1362	1472	1584	1699	1818	1939	2064
	97	160	246	356	494	663	866	1107	1256	1362	1472	1584	1699	1818	1939	2064
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6
23	81	138	212	308	429	577	754	965	1174	1291	1394	1499	1607	1718	1831	1948
	81	138	212	308	429	577	754	965	1174	1291	1394	1499	1607	1718	1831	1948
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6
24	71	119	184	269	374	504	660	845	1061	1226	1323	1422	1524	1628	1734	1843
	71	119	184	269	374	504	660	845	1061	1226	1323	1422	1524	1628	1734	1843
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6
25	61	104	161	235	328	443	581	744	935	1128	1259	1353	1449	1547	1647	1749
	61	104	161	235	328	443	581	744	935	1128	1259	1353	1449	1547	1647	1749
	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6
Total allowable load per foot																
Span	76.6	104.2	136.1	172.3	212.7	257.4	306.3	359.5	416.9	478.6	544.5	614.7	689.1	767.8	850.8	938.0
Live	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
Dead	15314	20844	27225	34457	42539	51472	61256	71891	83377	95713	108900	122938	137827	153566	170156	187597
Allowable	5198	6064	6930	7796	8663	9529	10395	11261	12128	12994	13860	14726	15593	16459	17325	18190

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Allowable Roof Load Tables LDF=1.15

Key - for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Bearing Length in truss member thickness
(e.g. 1.5 = 1 truss; 3.0 = 2 trusses, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The LDF has not been calculated and takes into account all floor and roof framing loads coming into the beam or header. Codes do allow live load reductions. See appropriate code sections.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	3 1/8							5 1/8										
	Depth (in.)							Depth (in.)										
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8
6	1489	1828	2204	2625	3098	3633	4243	4947	2889	3440	4060	4762	5563	6485	7560	8826	10142	12189
	1489	1828	2204	2625	3098	3633	4243	4947	2889	3440	4060	4762	5563	6485	7560	8826	10142	12189
	3	3	3	4.5	4.5	6	6	7.5	3	3	4.5	4.5	6	6	7.5	9	10.5	12
7	1223	1488	1776	2091	2437	2819	3242	3711	2327	2740	3194	3694	4248	4866	5559	6341	7231	8252
	1223	1488	1776	2091	2437	2819	3242	3711	2327	2740	3194	3694	4248	4866	5559	6341	7231	8252
	3	3	3	3.0	4.5	4.5	6.0	7.5	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9
8	1012	1254	1486	1737	2008	2302	2621	2970	1947	2276	2631	3016	3435	3892	4393	4945	5555	6233
	1012	1254	1486	1737	2008	2302	2621	2970	1947	2276	2631	3016	3435	3892	4393	4945	5555	6233
	3	3	3	3	4.5	4.5	4.5	6	3	3	3	4.5	4.5	4.5	4.5	6	7.5	7.5
9	798	1083	1278	1485	1707	1945	2200	2474	1673	1945	2236	2547	2882	3241	3630	4051	4508	5006
	798	1083	1278	1485	1707	1945	2200	2474	1673	1945	2236	2547	2882	3241	3630	4051	4508	5006
	1.5	3	3	3	4.5	4.5	4.5	6	3	3	3	4.5	4.5	4.5	4.5	4.5	6	7.5
10	645	880	1120	1297	1484	1683	1894	2120	1467	1698	1943	2204	2481	2776	3092	3429	3791	4180
	645	880	1120	1297	1484	1683	1894	2120	1467	1698	1943	2204	2481	2776	3092	3429	3791	4180
	3	3	3	3	4.5	4.5	4.5	6	3	3	3	3	3	4.5	4.5	4.5	6	6
11	532	726	949	1151	1312	1483	1663	1854	1305	1506	1718	1941	2177	2427	2691	2972	3270	3587
	532	726	949	1151	1312	1483	1663	1854	1305	1506	1718	1941	2177	2427	2691	2972	3270	3587
	1.5	3	3	3	4.5	4.5	4.5	6	3	3	3	3	3	4.5	4.5	4.5	6	6
12	419	608	796	1009	1176	1325	1482	1646	1175	1353	1539	1734	1940	2155	2382	2621	2874	3141
	419	608	796	1009	1176	1325	1482	1646	1175	1353	1539	1734	1940	2155	2382	2621	2874	3141
	1.5	1.5	3	3	3	4.5	4.5	4.5	3	3	3	3	3	4.5	4.5	4.5	6	6
13	328	517	677	858	1060	1197	1336	1481	1068	1228	1394	1567	1748	1938	2136	2344	2563	2792
	328	517	677	858	1060	1197	1336	1481	1068	1228	1394	1567	1748	1938	2136	2344	2563	2792
	1.5	1.5	3	3	3	3	4.5	4.5	3	3	3	3	3	3	4.5	4.5	6	6
14	261	418	582	738	911	1092	1216	1345	955	1123	1273	1429	1591	1760	1936	2120	2312	2513
	261	418	582	738	911	1092	1216	1345	955	1123	1273	1429	1591	1760	1936	2120	2312	2513
	1.5	3	3	3	3	3	4.5	4.5	3	3	3	3	3	3	4.5	4.5	4.5	6
15	211	338	506	642	794	962	1115	1232	830	1035	1171	1312	1459	1611	1769	1934	2105	2283
	211	338	506	642	794	962	1115	1232	830	1035	1171	1312	1459	1611	1769	1934	2105	2283
	1.5	3	3	3	3	3	4.5	4.5	3	3	3	3	3	3	4.5	4.5	4.5	6
16	173	277	417	563	696	844	1005	1136	684	923	1084	1214	1347	1485	1629	1778	1932	2092
	173	277	417	563	696	844	1005	1136	684	923	1084	1214	1347	1485	1629	1778	1932	2092
	1.5	1.5	3	3	3	3	4.5	4.5	1.5	3	3	3	3	3	4.5	4.5	4.5	6
17	143	230	346	496	615	746	889	1044	568	813	1009	1128	1251	1378	1509	1644	1785	1930
	143	230	346	496	615	746	889	1044	568	813	1009	1128	1251	1378	1509	1644	1785	1930
	1.5	1.5	1.5	1.5	3	3	3	4.5	1.5	3	3	3	3	3	3	4.5	4.5	4.5
18	119	192	290	416	548	664	791	930	476	682	898	1054	1167	1284	1405	1530	1658	1791
	119	192	290	416	548	664	791	930	476	682	898	1054	1167	1284	1405	1530	1658	1791
	1.5	1.5	1.5	1.5	3	3	3	4.5	1.5	3	3	3	3	3	3	4.5	4.5	4.5
19	100	162	245	352	486	594	709	833	402	577	796	968	1094	1203	1314	1429	1548	1670
	100	162	245	352	486	594	709	833	402	577	796	968	1094	1203	1314	1429	1548	1670
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
20	85	138	209	300	415	515	638	750	343	492	680	870	1029	1131	1235	1341	1451	1564
	85	138	209	300	415	515	638	750	343	492	680	870	1029	1131	1235	1341	1451	1564
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
21	73	118	179	258	357	477	578	679	294	423	585	783	932	1066	1164	1263	1366	1471
	73	118	179	258	357	477	578	679	294	423	585	783	932	1066	1164	1263	1366	1471
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
22	62	102	155	223	309	413	525	618	254	366	506	678	845	990	1100	1194	1290	1388
	62	102	155	223	309	413	525	618	254	366	506	678	845	990	1100	1194	1290	1388
	1.5	1.5	1.5	1.5	1.5	3	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
23	54	88	134	194	269	360	470	564	220	318	441	591	770	902	1043	1131	1221	1314
	54	88	134	194	269	360	470	564	220	318	441	591	770	902	1043	1131	1221	1314
	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
24	46	76	117	169	235	316	412	515	192	278	385	517	676	824	954	1075	1160	1247
	46	76	117	169	235	316	412	515	192	278	385	517	676	824	954	1075	1160	1247
	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
25	40	67	102	149	207	278	361	464	168	244	339	455	596	756	875	1003	1104	1186
	40	67	102	149	207	278	361	464	168	244	339	455	596	756	875	1003	1104	1186
	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5	1.5	1.5	1.5	3	3	3	3	4.5	4.5	4.5
Slab	35.4	48.3	63.0	79.8	98.5	119.1	141.8	166.4	103.4	130.8	161.5	195.4	232.5	272.9	316.5	363.4	413.4	466.7
1 in	146	232	347	494	677	901	1170	1487	968	809	1110	1478	1919	2439	3047	3747	4548	5455
M	8.151	11.098	14.495	18.345	22.648	27.404	32.613	38.275	23.771	30.086	37.143	44.943	53.486	62.772	72.800	83.572	95.086	107.3
V [lb]	3459	4035	4612	5188	5765	6341	6918	7494	6051	6807	7564	8320	9076	9833	10589	11345	12102	12858

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Allowable Roof Load Tables LDF=1.15

Key - for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF=1.0 and deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Bearing Length to maintain thickness

(e.g. 1.5 = 1" minimum, 3.0 = 2" minimum, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The tables must be calculated and take into account all floor and roof framing loads coming onto the beam header. Codes do allow live load reductions. See appropriate code sections.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	6.75															
	Depth (in.)															
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
6	2570	3155	3805	4531	5148	6272	7326	8541	9956	11625	13622	16054	19082	22953	28077	35181
	2570	3155	3805	4531	5148	6272	7326	8541	9956	11625	13622	16054	19082	22953	28077	35181
	3	3	3	3	4.5	4.5	6	6	7.5	9	10.5	12	13.5	16.5	21	28.5
7	2110	2567	3065	3609	4206	4865	5595	6409	7321	8351	9523	10869	12429	14260	16438	19074
	2110	2567	3065	3609	4206	4865	5595	6409	7321	8351	9523	10869	12429	14260	16438	19074
	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	10.5	12	13.5	16.5
8	1789	2163	2565	2997	3465	3972	4524	5126	5786	6513	7316	8210	9210	10335	11612	13073
	1789	2163	2565	2997	3465	3972	4524	5126	5786	6513	7316	8210	9210	10335	11612	13073
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	10.5	10.5	12
9	1553	1868	2204	2562	2945	3355	3795	4269	4781	5335	5937	6593	7311	8100	8972	9939
	1553	1868	2204	2562	2945	3355	3795	4269	4781	5335	5937	6593	7311	8100	8972	9939
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	9	9	10.5
10	1371	1644	1932	2236	2560	2903	3268	3656	4072	4516	4993	5506	6059	6657	7306	8013
	1371	1644	1932	2236	2560	2903	3268	3656	4072	4516	4993	5506	6059	6657	7306	8013
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	6	6	7.5	7.5	9	9
11	1149	1467	1719	1984	2261	2557	2868	3197	3545	3914	4307	4725	5171	5648	6160	6709
	1149	1467	1719	1984	2261	2557	2868	3197	3545	3914	4307	4725	5171	5648	6160	6709
	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5	9
12	906	1114	1348	1582	1827	2084	2355	2639	2938	3253	3585	3937	4309	4703	5122	5568
	906	1114	1348	1582	1827	2084	2355	2639	2938	3253	3585	3937	4309	4703	5122	5568
	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5	7.5
13	709	862	1037	1236	1451	1684	1936	2207	2498	2809	3141	3494	3868	4263	4689	5147
	709	862	1037	1236	1451	1684	1936	2207	2498	2809	3141	3494	3868	4263	4689	5147
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
14	565	693	838	1003	1188	1394	1621	1869	2138	2429	2742	3087	3463	3871	4311	4794
	565	693	838	1003	1188	1394	1621	1869	2138	2429	2742	3087	3463	3871	4311	4794
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5
15	456	561	683	823	981	1158	1355	1573	1812	2073	2356	2662	2991	3345	3725	4131
	456	561	683	823	981	1158	1355	1573	1812	2073	2356	2662	2991	3345	3725	4131
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
16	373	459	561	683	823	981	1158	1355	1573	1812	2073	2356	2662	2991	3345	3725
	373	459	561	683	823	981	1158	1355	1573	1812	2073	2356	2662	2991	3345	3725
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
17	309	386	476	582	703	838	988	1153	1334	1531	1744	1974	2231	2515	2827	3168
	309	386	476	582	703	838	988	1153	1334	1531	1744	1974	2231	2515	2827	3168
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
18	258	325	405	495	595	705	825	955	1095	1255	1435	1635	1855	2095	2355	2635
	258	325	405	495	595	705	825	955	1095	1255	1435	1635	1855	2095	2355	2635
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
19	217	276	342	417	502	597	702	817	942	1077	1232	1407	1602	1817	2052	2307
	217	276	342	417	502	597	702	817	942	1077	1232	1407	1602	1817	2052	2307
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
20	184	237	297	362	437	522	617	722	837	962	1097	1252	1427	1622	1837	2072
	184	237	297	362	437	522	617	722	837	962	1097	1252	1427	1622	1837	2072
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
21	157	205	265	325	395	475	565	665	775	895	1025	1175	1345	1535	1745	1975
	157	205	265	325	395	475	565	665	775	895	1025	1175	1345	1535	1745	1975
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
22	134	178	234	294	359	434	519	614	719	834	959	1094	1249	1424	1619	1834
	134	178	234	294	359	434	519	614	719	834	959	1094	1249	1424	1619	1834
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
23	116	156	202	252	307	367	432	507	592	687	792	907	1032	1177	1342	1527
	116	156	202	252	307	367	432	507	592	687	792	907	1032	1177	1342	1527
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
24	100	137	183	233	288	348	413	483	563	653	753	863	983	1113	1263	1433
	100	137	183	233	288	348	413	483	563	653	753	863	983	1113	1263	1433
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
25	87	114	151	191	236	286	341	401	471	546	626	716	816	926	1046	1186
	87	114	151	191	236	286	341	401	471	546	626	716	816	926	1046	1186
	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
S (in)	76.6	104.2	136.1	172.3	212.7	257.4	306.3	359.5	416.9	478.6	544.5	614.7	689.1	767.8	850.8	938.0
L (in)	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
M (k)	17.611	23.971	31.309	39.625	48.920	59.193	70.445	82.675	95.883	110.07	125.24	141.38	158.50	176.60	195.68	215.74
V (lb)	5977	6973	7970	8966	9962	10958	11954	12950	13947	14943	15939	16935	17931	18928	19924	20920

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Allowable Roof Load Tables LDF=1.25

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with 1/8" deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Rafter depth in (mm) thickness

(e.g., 1.5 = 1 triangle, 3.5 = 2 triangles, etc.)

These tables can be used for simple beams and headers that carry uniform loads. The LDF factor is calculated and takes into account all floor and roof framing loads coming onto the beam or header. Codes in allow live load reductions. See appropriate code section.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot																								
Single Span (ft)	3 1/8"												5 1/8"											
	Depth (in.)												Depth (in.)											
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8						
6	1619	1968	2397	2854	3468	3950	4613	5378	3142	3741	4415	5178	6048	7051	8219	9596	11244	13252						
	1619	1968	2397	2854	3468	3950	4613	5378	3142	3741	4415	5178	6048	7051	8219	9596	11244	13252						
7	1130	1618	1911	2274	2650	3065	3525	4017	2511	2980	3473	4017	4620	5291	6044	6895	7862	8972						
	1130	1618	1911	2274	2650	3065	3525	4017	2511	2980	3473	4017	4620	5291	6044	6895	7862	8972						
8	1101	1361	1617	1889	2184	2503	2851	3230	2118	2475	2861	3280	3735	4233	4777	5377	6041	6778						
	1079	1361	1617	1889	2184	2503	2851	3230	2118	2475	2861	3280	3735	4233	4777	5377	6041	6778						
9	868	1178	1390	1615	1857	2115	2392	2691	1820	2116	2432	2771	3134	3525	3948	4405	4902	5444						
	758	1178	1390	1615	1857	2115	2392	2691	1820	2116	2432	2771	3134	3525	3948	4405	4902	5444						
10	702	957	1218	1411	1614	1830	2060	2305	1595	1847	2114	2397	2699	3020	3363	3730	4123	4547						
	552	877	1218	1411	1614	1830	2060	2305	1595	1847	2114	2397	2699	3020	3363	3730	4123	4547						
11	546	789	1032	1252	1428	1613	1809	2016	1420	1639	1869	2112	2369	2640	2928	3233	3557	3902						
	415	659	984	1252	1428	1613	1809	2016	1420	1639	1869	2112	2369	2640	2928	3233	3557	3902						
12	419	662	860	1097	1279	1442	1612	1791	1279	1472	1675	1887	2110	2345	2592	2852	3126	3417						
	320	508	758	1079	1279	1442	1612	1791	1243	1472	1675	1887	2110	2345	2592	2852	3126	3417						
13	328	524	736	933	1154	1303	1453	1611	1163	1336	1516	1705	1902	2108	2324	2551	2788	3038						
	251	399	596	849	1154	1303	1453	1611	977	1336	1516	1705	1902	2108	2324	2551	2788	3038						
14	261	418	627	803	993	1188	1323	1463	1028	1222	1385	1555	1731	1915	2106	2306	2515	2734						
	201	320	477	679	912	1188	1323	1463	783	1114	1385	1555	1731	1915	2106	2306	2515	2734						
15	211	338	508	699	864	1046	1214	1340	833	1127	1275	1428	1588	1753	1925	2104	2291	2485						
	164	260	388	552	758	1009	1214	1340	636	906	1243	1428	1588	1753	1925	2104	2291	2485						
16	173	277	417	596	758	918	1094	1236	684	978	1180	1321	1466	1617	1773	1935	2103	2277						
	135	214	320	455	624	831	1079	1236	524	746	1024	1321	1466	1617	1773	1935	2103	2277						
17	143	230	346	496	670	812	967	1137	568	813	1098	1228	1362	1500	1642	1790	1943	2101						
	112	179	267	379	521	693	900	1137	437	622	854	1136	1362	1500	1642	1790	1943	2101						
18	119	192	290	416	573	723	861	1012	476	682	940	1147	1271	1398	1530	1665	1805	1949						
	95	150	225	320	439	584	758	963	368	524	719	957	1243	1398	1530	1665	1805	1949						
19	100	162	245	352	486	647	772	907	402	577	796	1054	1191	1309	1431	1556	1685	1818						
	81	128	191	272	373	496	644	819	313	446	611	814	1057	1309	1431	1556	1685	1818						
20	85	138	209	300	415	555	695	817	343	492	660	909	1121	1231	1344	1461	1580	1703						
	69	110	164	233	320	426	552	702	268	382	524	698	906	1152	1344	1461	1580	1703						
21	73	118	179	258	357	477	622	740	294	423	585	783	1015	1161	1267	1376	1487	1602						
	60	95	141	201	276	368	477	607	232	330	453	603	783	995	1243	1376	1487	1602						
22	62	102	155	223	309	413	539	673	254	366	506	678	885	1078	1198	1300	1404	1512						
	52	82	123	175	240	320	415	528	202	287	394	524	681	865	1081	1300	1404	1512						
23	54	88	134	194	269	360	470	601	220	318	441	591	771	982	1136	1232	1330	1431						
	45	72	108	151	210	280	361	462	176	251	345	459	596	757	946	1163	1330	1431						
24	46	76	117	169	235	316	412	527	192	278	385	517	676	864	1040	1171	1263	1358						
	40	63	95	135	185	246	320	406	155	221	303	404	524	667	833	1024	1243	1358						
25	40	67	102	149	207	278	363	464	168	244	339	455	596	762	954	1093	1203	1292						
	35	56	84	119	164	218	283	360	137	196	268	357	464	590	737	906	1100	1292						
	1.5	1.5	1.5	1.5	1.5	3	3	3	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5						
S [in"]	35.4	48.3	63.0	79.8	98.5	119.1	141.8	166.4	103.4	130.8	161.5	195.4	232.5	272.9	316.5	363.4	413.4	466.7						
I [in ⁴]	8.46	232	347	494	677	901	1170	1487	568	809	1110	1478	1919	2439	3047	3747	4548	5455						
M [lb]	8662	12,063	15,755	19,940	24,618	29,787	35,449	41,604	25,839	32,702	40,373	48,851	58,137	68,230	79,131	90,819	103,35	116,68						
V [lb/ft]	3760	4386	5013	5640	6266	6893	7520	8146	6577	7399	8221	9043	9866	10688	11510	12332	13154	13976						

24F V4 1.7E Industrial Stock Depth

Allowable Roof Load Tables LDF=1.25

Note: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240

Row 2: Maximum Live Load (unreduced deflection of L/360)

Row 3: Required Bearing length in frames (inches)
(e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The DLF factor must be calculated and taken into account all floor and roof framing loads transmit to the beam or header. Codes do allow live load reductions (See appropriate code sections).

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	6.75 Depth (in.)															
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
6	2794	3431	4138	4927	5815	6819	7966	9287	10825	12639	14810	17454	20745	24953	30523	38245
	2794	3431	4138	4927	5815	6819	7966	9287	10825	12639	14810	17454	20745	24953	30523	38245
	3	3	3	4.5	4.5	4.5	6	7.5	7.5	9	10.5	13.5	15	19.5	24	31.5
7	2295	2792	3333	3925	4574	5291	6085	6969	7961	9081	10355	11817	13513	15504	17872	20737
	2295	2792	3333	3925	4574	5291	6085	6969	7961	9081	10355	11817	13513	15504	17872	20737
	3	3	3	3	4.5	4.5	4.5	6	7.5	9	10.5	12	13.5	15.5	18	21.5
8	1946	2351	2789	3260	3769	4320	4920	5575	6292	7082	7956	8928	10014	11238	12627	14215
	1946	2351	2789	3260	3769	4320	4920	5575	6292	7082	7956	8928	10014	11238	12627	14215
	3	3	3	3	4.5	4.5	4.5	6	8	7.5	9	9	10.5	12	13.5	15.5
9	1689	2032	2397	2787	3203	3649	4128	4643	5200	5802	6457	7170	7951	8809	9756	10808
	1689	2032	2397	2787	3203	3649	4128	4643	5200	5802	6457	7170	7951	8809	9756	10808
	3	3	3	3	3	4.5	4.5	4.5	6	7.5	7.5	9	9	10.5	12	13.5
10	1491	1788	2101	2433	2784	3157	3554	3977	4429	4912	5431	5988	6590	7240	7946	8714
	1491	1788	2101	2433	2784	3157	3554	3977	4429	4912	5431	5988	6590	7240	7946	8714
	3	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	9	10.5	12
11	1180	1596	1870	2158	2462	2782	3120	3477	3856	4258	4685	5140	5625	6144	6700	7297
	896	1424	1870	2158	2462	2782	3120	3477	3856	4258	4685	5140	5625	6144	6700	7297
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	9	10.5	12
12	906	1430	1684	1939	2206	2485	2779	3088	3413	3756	4118	4500	4905	5334	5790	6275
	906	1430	1684	1939	2206	2485	2779	3088	3413	3756	4118	4500	4905	5334	5790	6275
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	9	10.5	12
13	709	1112	1511	1759	1997	2246	2505	2777	3061	3359	3672	4001	4347	4711	5096	5502
	543	862	1287	1759	1997	2246	2505	2777	3061	3359	3672	4001	4347	4711	5096	5502
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	6	7.5	7.5	7.5	7.5
14	565	903	1354	1610	1825	2048	2280	2522	2774	3038	3313	3601	3902	4218	4549	4897
	435	691	1031	1468	1825	2048	2280	2522	2774	3038	3313	3601	3902	4218	4549	4897
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	6	7.5	7.5	7.5	7.5
15	456	711	1097	1484	1679	1881	2091	2309	2536	2772	3017	3273	3539	3817	4108	4411
	354	561	838	1193	1637	1881	2091	2309	2536	2772	3017	3273	3539	3817	4108	4411
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	6	7.5	7.5	7.5	7.5
16	371	599	901	1288	1555	1740	1931	2129	2335	2548	2769	2999	3237	3485	3744	4012
	291	463	691	983	1349	1740	1931	2129	2335	2548	2769	2999	3237	3485	3744	4012
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
17	309	497	747	1070	1432	1618	1794	1975	2163	2357	2559	2767	2982	3206	3438	3679
	243	386	576	820	1124	1497	1794	1975	2163	2357	2559	2767	2982	3206	3438	3679
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
18	258	416	627	898	1238	1511	1674	1842	2015	2193	2377	2568	2764	2968	3178	3396
	205	325	485	691	947	1261	1637	1842	2015	2193	2377	2568	2764	2968	3178	3396
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
19	217	351	510	760	1049	1369	1569	1725	1885	2050	2220	2395	2575	2762	2954	3153
	174	276	412	587	805	1072	1392	1725	1885	2050	2220	2395	2575	2762	2954	3153
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
20	184	298	431	649	896	1198	1460	1621	1770	1924	2081	2243	2410	2582	2759	2942
	149	237	354	503	691	919	1193	1517	1770	1924	2081	2243	2410	2582	2759	2942
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
21	157	255	387	557	770	1031	1318	1530	1669	1812	1959	2110	2265	2424	2588	2757
	129	205	305	435	596	794	1031	1311	1617	1812	1959	2110	2265	2424	2588	2757
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
22	134	220	334	482	667	893	1165	1400	1578	1712	1850	1991	2136	2284	2437	2593
	112	178	266	378	519	691	896	1140	1424	1712	1850	1991	2136	2284	2437	2593
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
23	116	190	290	419	580	778	1016	1275	1476	1623	1752	1884	2020	2159	2302	2448
	98	156	232	331	454	604	785	998	1246	1512	1752	1884	2020	2159	2302	2448
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
24	100	165	251	366	508	682	891	1138	1350	1542	1664	1789	1916	2047	2180	2317
	86	137	205	291	400	532	691	878	1097	1349	1637	1789	1916	2047	2180	2317
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
25	87	144	221	321	446	600	784	1003	1239	1420	1584	1702	1822	1945	2071	2200
	76	121	181	259	354	471	611	777	970	1193	1448	1702	1822	1945	2071	2200
	1.5	1.5	1.5	3	3	4.5	4.5	4.5	6	6	6	6	6	6	6	6
S [in.]	76.6	104.2	136.1	172.3	212.7	257.4	306.3	359.5	416.9	478.6	544.5	614.7	689.1	767.8	850.8	938.0
I [in.]	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
M [ft]	19.143	26.055	34.031	43.071	53.174	64.340	76.570	89.864	104.22	119.64	136.13	153.67	172.28	191.96	212.70	234.50
V [lb]	6497	7580	8663	9745	10828	11911	12994	14077	15159	16242	17325	18408	19491	20573	21656	22739

24F V3 1.8E Architectural Stock Depth

Allowable Floor Load Tables LDF=1.00

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0 and deflection limited to L/240

Row 2: Maximum Live Load number based on L/360

Row 3: Required Bearing Length in inches (thickness)

(e.g., 1.5 x 1 trimmer, 2.0 x 2 trimmer, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The LDF loads may be calculated and take into account all floor and roof framing loads coming onto the beam or header. Cycles do allow live load reduction. See appropriate code sections.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	3 1/8"								5 1/8"										
	Depth (in.)								Depth (in.)										
	8 1/4"	9 5/8"	11"	12 3/8"	13 3/4"	15 1/8"	16 1/2"	17 7/8"	11"	12 3/8"	13 3/4"	15 1/8"	16 1/2"	17 7/8"	19 1/4"	20 5/8"	22"	23 3/8"	
6'	1569	2136	2792	3534	4365	5293	6288	7381	4578	5796	7158	8664	10313	12105	14041	16120	18344	20710	
	1569	2136	2792	3534	4365	5293	6288	7381	4578	5796	7158	8664	10313	12105	14041	16120	18344	20710	
	3	3	4.5	6	7.5	9	10.5	12	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
7'	1151	1567	2049	2594	3204	3878	4616	5419	3360	4254	5254	6360	7570	8887	10309	11836	13469	15207	
	1137	1567	2049	2594	3204	3878	4616	5419	3360	4254	5254	6360	7570	8887	10309	11836	13469	15207	
	3	3	4.5	6	7.5	9	10.5	12	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
8'	879	1198	1566	1984	2450	2966	3531	4145	2569	3253	4018	4864	5791	6798	7886	9055	10305	11635	
	762	1198	1566	1984	2450	2966	3531	4145	2569	3253	4018	4864	5791	6798	7886	9055	10305	11635	
	3	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
9'	693	945	1236	1565	1933	2341	2787	3272	2026	2567	3171	3839	4571	5366	6226	7149	8136	9186	
	515	849	1236	1565	1933	2341	2787	3272	2026	2567	3171	3839	4571	5366	6226	7149	8136	9186	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
10'	560	764	999	1266	1564	1894	2255	2648	1638	2076	2565	3105	3698	4342	5038	5785	6584	7435	
	390	619	924	1266	1564	1894	2255	2648	1516	2076	2565	3105	3698	4342	5038	5785	6584	7435	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
11'	412	600	824	1044	1290	1563	1861	2185	1351	1713	2116	2563	3052	3584	4159	4776	5436	6133	
	293	465	694	989	1290	1563	1861	2185	1139	1622	2116	2563	3052	3584	4159	4776	5436	6133	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
12'	312	528	691	876	1082	1311	1562	1834	1133	1436	1775	2150	2561	3008	3490	4009	4552	5126	
	226	358	535	762	1045	1311	1562	1834	877	1249	1713	2150	2561	3008	3490	4009	4552	5126	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
13'	259	415	587	745	921	1115	1328	1560	963	1221	1510	1829	2179	2559	2970	3401	3859	4345	
	177	282	421	599	822	1094	1328	1560	690	982	1348	1794	2179	2559	2970	3401	3859	4345	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
14'	226	330	496	641	792	960	1144	1343	813	1051	1299	1574	1875	2203	2548	2917	3311	3728	
	142	226	317	480	658	876	1137	1343	552	787	1079	1436	1864	2203	2548	2917	3311	3728	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
15'	166	267	401	557	689	834	994	1168	658	913	1129	1369	1631	1910	2209	2529	2870	3232	
	116	181	274	390	535	712	924	1168	449	640	877	1168	1516	1910	2209	2529	2870	3232	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
16'	136	219	329	471	604	732	872	1025	540	773	990	1200	1427	1670	1932	2212	2510	2827	
	95	151	226	321	441	587	762	968	370	527	723	962	1249	1588	1932	2212	2510	2827	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
17'	112	181	273	391	534	647	771	906	448	642	875	1060	1258	1472	1703	1950	2214	2493	
	79	126	188	268	367	489	635	807	309	439	603	802	1041	1324	1654	1950	2214	2493	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
18'	93	151	228	328	453	576	686	807	375	538	742	940	1116	1307	1512	1731	1965	2214	
	67	106	158	226	310	412	535	680	260	370	508	676	877	1115	1393	1713	1965	2214	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
19'	78	127	193	277	383	513	614	722	316	455	628	819	997	1167	1350	1547	1756	1978	
	57	90	135	192	263	350	455	578	221	315	432	575	746	948	1184	1457	1756	1978	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
20'	66	108	164	236	327	438	553	651	269	388	536	718	895	1048	1213	1389	1578	1778	
	49	77	116	165	226	300	390	496	189	270	370	493	640	813	1016	1249	1516	1778	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
21'	56	92	140	203	281	376	491	589	230	332	460	617	806	946	1095	1254	1425	1605	
	42	67	100	142	195	259	337	428	164	233	320	426	552	702	877	1079	1309	1571	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
22'	48	79	121	175	243	326	425	535	198	287	398	534	698	858	993	1138	1292	1456	
	37	58	87	124	170	226	293	372	142	203	278	370	480	611	763	938	1139	1366	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
23'	41	68	105	152	211	283	371	474	172	249	346	465	608	777	904	1036	1177	1327	
	32	51	76	108	148	197	256	326	125	177	243	324	420	535	668	821	997	1196	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
24'	35	59	91	132	184	248	325	415	149	217	302	407	532	681	826	947	1076	1213	
	28	45	67	95	131	174	226	287	110	156	214	285	370	471	588	723	877	1052	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
25'	30	51	79	116	162	218	286	366	130	190	265	357	468	600	753	869	987	1113	
	25	40	59	84	116	154	200	254	97	138	189	252	327	416	520	640	776	931	
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	16.5	
S [in.]	35	48	63	80	98	119	142	166	103	131	161	195	233	273	317	363	413	467	
I [in ⁴]	146	232	347	494	677	901	1170	1487	568	809	1110	1478	1919	2439	3047	3747	4548	5455	
M [ft.-lb.]	7090	9650	12604	15952	19694	23830	28359	33283	20671	26162	32298	39081	46509	54584	63304	72671	82683	93342	
V [lb.]	5156	6016	6875	7734	8594	9453	10313	11172	11275	12684	14094	15503	16913	18322	19731	21141	22550	23959	

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Allowable Floor Load Tables LDF=1.00

Key: For each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0 and deflection limited to $L/240$

Row 2: Maximum Live Load limited by deflection of $L/360$

Row 3: Required Bearing Length to transfer thickness

(e.g., 1.5 x 1 number = 30" x 1 (minimum) x 2)

These tables can be used to size simple span beams and headers that carry uniform loads. The LDF can be calculated and tables account for floor and roof loads (loads coming onto the beam or header). Codes do allow live load reduction. (See appropriate code sections).

		Allowable Loads for Anthony Glulam in Pounds per Linear Foot															
Single Span (ft)		Depth (in.)															
		8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
6		2332	2741	3306	3937	4647	5450	6167	7423	8653	10104	11840	13954	16587	19953	24409	30585
		2212	2741	3306	3937	4647	5450	6167	7423	8653	10104	11840	13954	16587	19953	24409	30585
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
7		1833	2230	2662	3135	3655	4227	4862	5569	6362	7257	8276	9445	10802	12394	14288	16579
		1833	2230	2662	3135	3655	4227	4862	5569	6362	7257	8276	9445	10802	12394	14288	16579
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
8		1554	1879	2227	2603	3010	3451	3930	4453	5027	5658	6357	7134	8002	8981	10091	11361
		1554	1879	2227	2603	3010	3451	3930	4453	5027	5658	6357	7134	8002	8981	10091	11361
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
9		1348	1622	1914	2225	2557	2914	3296	3708	4151	4634	5157	5728	6352	7038	7795	8536
		1348	1622	1914	2225	2557	2914	3296	3708	4151	4634	5157	5728	6352	7038	7795	8536
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
10		1178	1427	1677	1942	2222	2520	2837	3175	3536	3922	4337	4782	5263	5783	6347	6961
		1178	1427	1677	1942	2222	2520	2837	3175	3536	3922	4337	4782	5263	5783	6347	6961
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
11		881	1073	1273	1492	1722	1964	2220	2490	2775	3078	3399	3740	4103	4491	4905	5350
		881	1073	1273	1492	1722	1964	2220	2490	2775	3078	3399	3740	4103	4491	4905	5350
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
12		675	1079	1341	1546	1759	1963	2217	2464	2724	2997	3286	3592	3915	4258	4622	5009
		675	1079	1341	1546	1759	1963	2217	2464	2724	2997	3286	3592	3915	4258	4622	5009
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
13		528	845	1221	1403	1593	1791	1998	2215	2442	2680	2930	3192	3469	3760	4067	4391
		528	845	1221	1403	1593	1791	1998	2215	2442	2680	2930	3192	3469	3760	4067	4391
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
14		420	671	1011	1284	1455	1633	1818	2011	2212	2423	2642	2872	3113	3365	3629	3907
		420	671	1011	1284	1455	1633	1818	2011	2212	2423	2642	2872	3113	3365	3629	3907
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
15		338	544	818	1171	1338	1499	1667	1841	2022	2210	2406	2610	2822	3044	3276	3519
		338	544	818	1171	1338	1499	1667	1841	2022	2210	2406	2610	2822	3044	3276	3519
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
16		276	445	670	961	1239	1386	1539	1697	1861	2031	2207	2391	2581	2779	2985	3199
		276	445	670	961	1239	1386	1539	1697	1861	2031	2207	2391	2581	2779	2985	3199
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
17		228	368	556	797	1099	1289	1429	1574	1723	1878	2039	2205	2377	2555	2740	2932
		228	368	556	797	1099	1289	1429	1574	1723	1878	2039	2205	2377	2555	2740	2932
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
18		190	307	465	668	922	1204	1333	1467	1605	1747	1894	2045	2202	2365	2532	2706
		190	307	465	668	922	1204	1333	1467	1605	1747	1894	2045	2202	2365	2532	2706
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
19		159	259	392	565	780	1044	1249	1373	1501	1632	1758	1907	2051	2200	2353	2512
		159	259	392	565	780	1044	1249	1373	1501	1632	1758	1907	2051	2200	2353	2512
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
20		134	219	333	481	665	891	1162	1291	1409	1511	1657	1786	1919	2056	2197	2343
		134	219	333	481	665	891	1162	1291	1409	1511	1657	1786	1919	2056	2197	2343
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
21		114	187	285	412	571	766	1001	1217	1328	1442	1559	1679	1803	1930	2060	2195
		114	187	285	412	571	766	1001	1217	1328	1442	1559	1679	1803	1930	2060	2195
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
22		97	160	246	356	494	663	866	1107	1256	1362	1472	1584	1699	1818	1939	2064
		97	160	246	356	494	663	866	1107	1256	1362	1472	1584	1699	1818	1939	2064
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
23		83	138	212	308	429	577	754	965	1174	1291	1394	1499	1607	1718	1831	1948
		83	138	212	308	429	577	754	965	1174	1291	1394	1499	1607	1718	1831	1948
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
24		71	119	184	269	374	504	660	845	1061	1226	1323	1422	1524	1628	1734	1843
		71	119	184	269	374	504	660	845	1061	1226	1323	1422	1524	1628	1734	1843
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
25		61	104	161	235	328	443	581	744	935	1128	1259	1353	1449	1547	1647	1749
		61	104	161	235	328	443	581	744	935	1128	1259	1353	1449	1547	1647	1749
		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
S(in)		77	104	136	172	213	257	306	359	417	479	545	615	689	768	851	938
I(in ⁴)		316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
M(ft-lb)		15314	20844	27225	34457	42539	51472	61256	71891	83377	95713	108900	122938	137827	153566	170156	187597
V(lb)		11138	12994	14850	16706	18563	20419	22275	24131	25988	27844	29700	31556	33413	35269	37125	38981

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Allowable Roof Load Tables LDF=1.15

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF=1.15 and deflection limited to L/240

Row 2: Maximum Live Load (unreduced deflection of L/360)

Row 3: Required Beaming Length in (inches) thickness
(e.g. 1.5 = 1 1/2 inches, 3/4 = 3/4 inches, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. (The LDF has been calculated and only take account all floor and roof framing loads coming onto the beam or header. Codes do allow live load reduction. See appropriate code section.)

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	3 1/8"								5 1/8"										
	Depth (in.)								Depth (in.)										
	8 1/4"	9 5/8"	11"	12 3/8"	13 3/4"	15 1/8"	16 1/2"	17 7/8"	11"	12 3/8"	13 3/4"	15 1/8"	16 1/2"	17 7/8"	19 1/4"	20 5/8"	22"	23 3/8"	
6'	1805	2458	3212	4066	5021	6077	7233	8490	5267	6669	8235	9966	11863	13924	16151	18543	21100	23822	
	1805	2458	3212	4066	5021	6077	7233	8490	5267	6669	8235	9966	11863	13924	16151	18543	21100	23822	
	1	4.5	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	12	13.5	16.5	18	21	24	
7'	1324	1804	2357	2985	3686	4461	5311	6234	3866	4895	6045	7317	8709	10224	11859	13616	15494	17493	
	1324	1804	2357	2985	3686	4461	5311	6234	3866	4895	6045	7317	8709	10224	11859	13616	15494	17493	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	12	13.5	15	18	19.5	22	
8'	1012	1379	1803	2283	2819	3413	4063	4769	2956	3744	4624	5597	6663	7822	9073	10418	11855	13385	
	1012	1379	1803	2283	2819	3413	4063	4769	2956	3744	4624	5597	6663	7822	9073	10418	11855	13385	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	12	13.5	15	18	19.5	22	
9'	798	1098	1422	1801	2225	2694	3207	3765	2333	2954	3649	4418	5260	6175	7163	8225	9361	10569	
	798	1098	1422	1801	2225	2694	3207	3765	2333	2954	3649	4418	5260	6175	7163	8225	9361	10569	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
10'	645	880	1150	1457	1800	2180	2595	3047	1886	2390	2952	3574	4256	4997	5797	6657	7576	8555	
	645	880	1150	1457	1800	2180	2595	3047	1886	2390	2952	3574	4256	4997	5797	6657	7576	8555	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
11'	532	726	949	1202	1486	1799	2142	2515	1556	1972	2437	2950	3513	4125	4787	5497	6256	7057	
	532	726	949	1202	1486	1799	2142	2515	1556	1972	2437	2950	3513	4125	4787	5497	6256	7057	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
12'	444	608	796	1009	1247	1510	1798	2111	1305	1654	2044	2476	2949	3462	4018	4614	5240	5899	
	444	608	796	1009	1247	1510	1798	2111	1305	1654	2044	2476	2949	3462	4018	4614	5240	5899	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
13'	348	517	677	858	1060	1284	1530	1797	1110	1407	1739	2106	2509	2947	3419	3915	4442	5002	
	348	517	677	858	1060	1284	1530	1797	1110	1407	1739	2106	2509	2947	3419	3915	4442	5002	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
14'	266	423	611	858	1060	1284	1530	1797	1035	1407	1739	2106	2509	2947	3419	3915	4442	5002	
	266	423	611	858	1060	1284	1530	1797	1035	1407	1739	2106	2509	2947	3419	3915	4442	5002	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
15'	224	359	506	642	794	962	1146	1346	830	1053	1302	1577	1879	2200	2544	2912	3305	3722	
	224	359	506	642	794	962	1146	1346	830	1053	1302	1577	1879	2200	2544	2912	3305	3722	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
16'	183	294	442	563	696	844	1005	1181	725	923	1142	1383	1645	1924	2226	2548	2892	3256	
	183	294	442	563	696	844	1005	1181	725	923	1142	1383	1645	1924	2226	2548	2892	3256	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
17'	152	244	367	497	615	746	889	1044	602	816	1009	1222	1450	1697	1962	2247	2550	2872	
	152	244	367	497	615	746	889	1044	602	816	1009	1222	1450	1697	1962	2247	2550	2872	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
18'	127	204	308	441	548	664	791	930	505	723	898	1084	1287	1506	1742	1995	2265	2551	
	127	204	308	441	548	664	791	930	505	723	898	1084	1287	1506	1742	1995	2265	2551	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
19'	107	172	260	373	490	594	709	833	427	612	803	968	1150	1346	1557	1783	2024	2280	
	107	172	260	373	490	594	709	833	427	612	803	968	1150	1346	1557	1783	2024	2280	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
20'	85	135	202	288	395	525	682	833	332	472	647	862	1119	1346	1557	1783	2024	2280	
	85	135	202	288	395	525	682	833	332	472	647	862	1119	1346	1557	1783	2024	2280	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
21'	91	147	222	319	440	535	638	750	364	522	721	870	1032	1209	1399	1602	1819	2049	
	91	147	222	319	440	535	638	750	364	522	721	870	1032	1209	1399	1602	1819	2049	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
22'	77	126	190	274	378	484	576	679	312	449	620	785	932	1091	1263	1447	1643	1851	
	77	126	190	274	378	484	576	679	312	449	620	785	932	1091	1263	1447	1643	1851	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
23'	63	100	150	213	292	389	505	642	246	350	480	638	829	1054	1263	1447	1643	1851	
	63	100	150	213	292	389	505	642	246	350	480	638	829	1054	1263	1447	1643	1851	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
24'	55	87	130	185	254	338	439	559	214	304	417	555	721	916	1144	1313	1491	1680	
	55	87	130	185	254	338	439	559	214	304	417	555	721	916	1144	1313	1491	1680	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
25'	57	94	143	206	285	382	479	564	234	338	468	627	770	902	1044	1196	1358	1531	
	57	94	143	206	285	382	479	564	234	338	468	627	770	902	1044	1196	1358	1531	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
26'	48	76	114	162	223	296	385	489	187	266	365	486	631	802	1002	1196	1358	1531	
	48	76	114	162	223	296	385	489	187	266	365	486	631	802	1002	1196	1358	1531	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
27'	49	81	124	180	250	335	437	515	204	295	409	549	703	824	954	1094	1242	1400	
	49	81	124	180	250	335	437	515	204	295	409	549	703	824	954	1094	1242	1400	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
28'	42	67	100	143	196	261	338	430	164	234	321	428	555	706	882	1084	1242	1400	
	42	67	100	143	196	261	338	430	164	234	321	428	555	706	882	1084	1242	1400	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
29'	43	71	109	158	219	295	385	473	179	259	360	483	632	756	875	1003	1140	1285	
	43	71	109	158	219	295	385	473	179	259	360	483	632	756	875	1003	1140	1285	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
30'	37	59	89	126	173	231	299	381	146	207	284	378	491	624	780	959	1140	1285	
	37	59	89	126	173	231	299	381	146	207	284	378	491	624	780	959	1140	1285	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
31'	35	48	63	80	98	119	142	166	103	131	161	195	233	273	317	363	413	467	
	35	48	63	80	98	119	142	166	103	131	161	195	233	273	317	363	413	467	
	1	3	4.5	6	7.5	9	12	13.5	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18	
32'	146	232	347	494	677	901	1170	1487	568	809	1110	1478	1919	2439	3047	3747	4548	5455	
	146	232																	

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Allowable Floor Load Tables LDF=1.15

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0, and deflection limited to L/240

Row 2: Maximum Live Load (unreduced) deflection limited to L/360

Row 3: Required Beaming Length in (mm) (inches)

(e.g. 1.5 = 1 (mm) 3 = 3 (inches), etc.)

These tables can be used to size simple span beam and headers that carry uniform loads. The floor loads must be calculated and added into account all floor and roof framing loads coming onto the beam or header. Consider all applicable load reductions (see appropriate code sections).

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	6.75															
	Depth (in.)															
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
6	2570	3155	3805	4531	5148	6272	7326	8541	9956	11625	13622	16054	19082	22953	28077	35181
	2570	3155	3805	4531	5148	6272	7326	8541	9956	11625	13622	16054	19082	22953	28077	35181
	3	3	3	3	4.5	4.5	6	6	7.5	9	10.5	12	13.5	16.5	21	28.5
7	2110	2567	3065	3609	4206	4865	5595	6409	7321	8351	9523	10869	12429	14260	16438	19074
	2110	2567	3065	3609	4206	4865	5595	6409	7321	8351	9523	10869	12429	14260	16438	19074
	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	10.5	12	13.5	16.5
8	1789	2161	2565	2997	3465	3972	4524	5126	5786	6513	7316	8210	9210	10335	11612	13073
	1789	2161	2565	2997	3465	3972	4524	5126	5786	6513	7316	8210	9210	10335	11612	13073
	1.5	3	3	3	3	4.5	4.5	4.5	6	6	7.5	7.5	9	10.5	10.5	12
9	1553	1868	2204	2562	2945	3355	3795	4269	4781	5335	5937	6593	7311	8100	8972	9939
	1553	1868	2204	2562	2945	3355	3795	4269	4781	5335	5937	6593	7311	8100	8972	9939
	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	7.5	7.5	9	9	10.5
10	1371	1644	1932	2236	2560	2903	3268	3656	4072	4516	4993	5506	6059	6657	7306	8013
	1371	1644	1932	2236	2560	2903	3268	3656	4072	4516	4993	5506	6059	6657	7306	8013
	1.5	3	3	3	3	3	4.5	4.5	4.5	6	6	6	7.5	7.5	9	9
11	1149	1407	1719	1984	2263	2557	2868	3197	3545	3914	4307	4725	5171	5648	6160	6709
	896	1424	1719	1984	2263	2557	2868	3197	3545	3914	4307	4725	5171	5648	6160	6709
	1.5	3	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	7.5	7.5	9
12	906	1314	1548	1782	2027	2284	2555	2839	3138	3453	3785	4137	4509	4903	5322	5768
	691	1097	1548	1782	2027	2284	2555	2839	3138	3453	3785	4137	4509	4903	5322	5768
	1.5	3	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5
13	709	1117	1407	1617	1835	2064	2302	2552	2813	3088	3375	3678	3996	4331	4684	5057
	543	862	1287	1617	1835	2064	2302	2552	2813	3088	3375	3678	3996	4331	4684	5057
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	7.5
14	465	901	1258	1479	1677	1882	2095	2317	2550	2792	3045	3309	3586	3877	4181	4501
	435	691	1031	1468	1677	1882	2095	2317	2550	2792	3045	3309	3586	3877	4181	4501
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	7.5
15	456	731	1093	1363	1543	1729	1922	2122	2330	2547	2773	3008	3252	3508	3775	4054
	354	561	838	1193	1543	1729	1922	2122	2330	2547	2773	3008	3252	3508	3775	4054
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	7.5
16	373	599	901	1214	1428	1598	1774	1957	2145	2341	2544	2756	2975	3203	3440	3687
	291	463	691	983	1149	1598	1774	1957	2145	2341	2544	2756	2975	3203	3440	3687
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	7.5
17	309	497	747	1069	1316	1486	1648	1815	1987	2166	2351	2542	2740	2946	3159	3380
	243	386	576	820	1124	1486	1648	1815	1987	2166	2351	2542	2740	2946	3159	3380
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
18	258	416	627	898	1167	1388	1538	1692	1851	2015	2184	2359	2539	2726	2920	3120
	205	325	485	691	947	1261	1538	1692	1851	2015	2184	2359	2539	2726	2920	3120
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
19	217	351	530	760	1042	1258	1441	1584	1731	1883	2039	2200	2366	2537	2714	2896
	174	276	412	587	805	1072	1392	1584	1731	1883	2039	2200	2366	2537	2714	2896
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
20	184	298	451	649	896	1129	1341	1489	1626	1767	1911	2060	2214	2372	2534	2702
	149	247	354	501	691	919	1193	1489	1626	1767	1911	2060	2214	2372	2534	2702
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
21	157	255	387	557	770	1019	1210	1405	1533	1664	1799	1938	2080	2226	2377	2532
	129	205	305	435	596	794	1031	1311	1533	1664	1799	1938	2080	2226	2377	2532
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
22	134	220	334	482	667	893	1098	1285	1449	1572	1699	1826	1961	2098	2238	2382
	112	178	266	378	519	691	896	1140	1424	1572	1699	1828	1961	2098	2238	2382
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
23	116	190	290	419	580	778	999	1171	1355	1490	1609	1730	1855	1982	2113	2248
	98	156	232	331	454	604	785	998	1246	1490	1609	1730	1855	1982	2113	2248
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
24	100	165	253	366	508	682	891	1070	1239	1416	1528	1642	1759	1879	2002	2128
	86	137	205	291	400	532	691	878	1097	1349	1528	1642	1759	1879	2002	2128
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
25	87	144	221	321	446	600	784	982	1137	1303	1454	1562	1673	1786	1901	2020
	76	121	181	258	354	471	611	777	970	1191	1448	1562	1673	1786	1901	2020
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	4.5	6	6	6	6	6
S (in)	77	104	136	172	213	257	306	359	417	479	545	615	689	768	851	938
I (in ⁴)	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
M (ft-lb)	17611	23971	31309	39625	48920	59193	70445	82675	95883	110070	125215	141379	158501	176601	195683	215737
V (lb)	12808	14943	17078	19212	21347	23482	25616	27751	29886	32020	34155	36290	38424	40559	42694	44828

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Allowable Roof Load Tables LDF=1.25

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0 and deflection limited to $L/240$

Row 2: Maximum Live Load limited by deflection of $L/360$

Row 3: Required Bearing Length in trimmer ink-knee

(e.g., 1.5 = 1 1/2 inches, 4.0 = 4 inches, etc.)

These tables can be used to size simple span beams and headers that carry uniform loads. The LDF has to be calculated and the live load must not all floor and roof framing will, coming onto the beam or header. Codes do allow live load reductions. See appropriate code sections.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	3 1/8							5 1/8										
	Depth (in.)							Depth (in.)										
	8 1/4	9 5/8	11	12 1/8	13 3/4	15 1/8	16 1/2	17 7/8	11	12 1/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 1/8
6'	1962	2672	3402	4421	5459	6607	7864	9230	5727	7250	8953	10835	12896	15137	17558	20158	22937	25896
	1962	2672	3402	4421	5459	6607	7864	9230	5727	7250	8953	10835	12896	15137	17558	20158	22937	25896
	3	4.5	6	7.5	9	10.5	12	15	6	7.5	9	10.5	12	15	18	21	24	27
7'	1440	1961	2563	3245	4008	4850	5774	6777	4203	5322	6572	7955	9469	11115	12893	14802	16844	19017
	1440	1961	2563	3245	4008	4850	5774	6777	4203	5322	6572	7955	9469	11115	12893	14802	16844	19017
	3	4.5	6	7.5	9	10.5	12	15	4.5	6	7.5	9	10.5	12	15	16.5	19.5	22.5
8'	1101	1500	1960	2482	3066	3711	4417	5185	3215	4071	5028	6085	7244	8504	9865	11326	12889	14552
	1101	1500	1960	2482	3066	3711	4417	5185	3215	4071	5028	6085	7244	8504	9865	11326	12889	14552
	3	4.5	6	7.5	9	10.5	12	15	4.5	6	7.5	9	10.5	12	13.5	16.5	18	21
9'	868	1181	1547	1959	2420	2929	3487	4094	2537	3213	3968	4804	5719	6714	7789	8943	10177	11491
	868	1181	1547	1959	2420	2929	3487	4094	2537	3213	3968	4804	5719	6714	7789	8943	10177	11491
	3	4.5	6	7.5	9	10.5	12	15	4.5	6	7.5	9	10.5	12	13.5	16.5	18	21
10'	702	957	1251	1585	1958	2370	2822	3313	2052	2599	3211	3887	4628	5434	6304	7238	8238	9302
	702	957	1251	1585	1958	2370	2822	3313	2052	2599	3211	3887	4628	5434	6304	7238	8238	9302
	3	4.5	6	7.5	9	10.5	12	15	3	4.5	6	7.5	9	10.5	12	13.5	15	18
11'	579	789	1032	1308	1616	1957	2330	2736	1693	2145	2650	3209	3821	4486	5205	5977	6803	7674
	579	789	1032	1308	1616	1957	2330	2736	1693	2145	2650	3209	3821	4486	5205	5977	6803	7674
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
12'	444	662	866	1097	1356	1642	1955	2296	1420	1800	2224	2693	3207	3766	4369	5018	5698	6415
	444	662	866	1097	1356	1642	1955	2296	1420	1800	2224	2693	3207	3766	4369	5018	5698	6415
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
13'	348	556	716	933	1154	1397	1664	1954	1208	1531	1892	2291	2729	3205	3719	4258	4831	5439
	348	556	716	933	1154	1397	1664	1954	1208	1531	1892	2291	2729	3205	3719	4258	4831	5439
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
14'	277	443	614	803	993	1203	1433	1683	1039	1318	1629	1973	2350	2760	3192	3654	4146	4668
	277	443	614	803	993	1203	1433	1683	1039	1318	1629	1973	2350	2760	3192	3654	4146	4668
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
15'	224	359	518	699	864	1046	1246	1464	883	1146	1416	1716	2044	2394	2768	3168	3595	4048
	224	359	518	699	864	1046	1246	1464	883	1146	1416	1716	2044	2394	2768	3168	3595	4048
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
16'	183	294	442	613	758	918	1094	1285	725	1005	1243	1506	1790	2094	2421	2772	3146	3542
	183	294	442	613	758	918	1094	1285	725	1005	1243	1506	1790	2094	2421	2772	3146	3542
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
17'	152	244	367	525	670	812	967	1137	602	861	1098	1330	1578	1846	2135	2445	2775	3125
	152	244	367	525	670	812	967	1137	602	861	1098	1330	1578	1846	2135	2445	2775	3125
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
18'	127	204	308	441	596	723	861	1012	505	723	978	1181	1401	1639	1896	2171	2464	2776
	127	204	308	441	596	723	861	1012	505	723	978	1181	1401	1639	1896	2171	2464	2776
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
19'	107	172	260	373	515	647	772	907	427	612	844	1054	1251	1465	1695	1940	2203	2481
	107	172	260	373	515	647	772	907	427	612	844	1054	1251	1465	1695	1940	2203	2481
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
20'	85	135	202	288	395	525	682	867	332	472	647	862	1119	1422	1695	1940	2203	2481
	85	135	202	288	395	525	682	867	332	472	647	862	1119	1422	1695	1940	2203	2481
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
21'	71	147	222	319	440	583	744	917	364	522	721	947	1124	1316	1523	1744	1980	2230
	71	147	222	319	440	583	744	917	364	522	721	947	1124	1316	1523	1744	1980	2230
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
22'	61	126	190	274	378	506	629	740	312	449	620	830	1015	1189	1375	1575	1788	2015
	61	126	190	274	378	506	629	740	312	449	620	830	1015	1189	1375	1575	1788	2015
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
23'	55	108	164	237	327	439	572	673	269	388	537	719	921	1078	1248	1429	1623	1829
	55	108	164	237	327	439	572	673	269	388	537	719	921	1078	1248	1429	1623	1829
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
24'	48	94	141	206	285	382	499	614	234	338	468	627	818	982	1137	1302	1479	1666
	48	94	141	206	285	382	499	614	234	338	468	627	818	982	1137	1302	1479	1666
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
25'	42	81	124	180	250	335	437	559	204	295	409	549	717	898	1040	1191	1353	1525
	42	81	124	180	250	335	437	559	204	295	409	549	717	898	1040	1191	1353	1525
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
26'	37	71	109	158	219	295	385	493	179	259	360	483	632	808	954	1093	1242	1400
	37	71	109	158	219	295	385	493	179	259	360	483	632	808	954	1093	1242	1400
	1.5	3	4.5	6	7.5	9	10.5	12	3	4.5	6	7.5	9	10.5	12	13.5	15	18
Sho [	35	48	63	80	98	119	142	166	103	131	161	195	233	273	317	363	413	467
l [in]	146	232	347	494	677	901	1170	1487	568	809	1110	1478	1919	2439	3047	3747	4548	5455
M [ft-lb]	8862	12063	15755	19940	24618	29787	35449	41604	25839	32702	40373	48851	58137	68230	79131	90839	103354	116677
V [lb]	6445	7520	8594	9668	10742	11816	12891	13965	14094	15855	17617	19379	21141	22902	24664	26426	28188	29949

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Allowable Roof Load Tables LDF=1.25

Key: for each clear span there are three numbers:

Row 1: Maximum Total Load with LDF of 1.0 and deflection limited to L/240

Row 2: Maximum Live Load limited by deflection of L/360

Row 3: Required Bearing Length in trusses (inches)
(e.g., 1.5 = 1 1/2 trusses, 3.0 = 3 trusses, etc.)

These tables can be used for simple span beams and trusses that carry uniform loads. The LDF loads must be calculated and take into account all floor and roof framing loads coming onto the beam or truss. Codes do allow live load reductions. See appropriate code sections.

Allowable Loads for Anthony Glulam in Pounds per Linear Foot

Single Span (ft)	6.75 Depth (in.)															
	8 1/4	9 5/8	11	12 3/8	13 3/4	15 1/8	16 1/2	17 7/8	19 1/4	20 5/8	22	23 3/8	24 3/4	26 1/8	27 1/2	28 7/8
6	2794	3431	4138	4927	5815	6819	7966	9287	10825	12639	14810	17454	20745	24953	30523	38245
	2794	3431	4138	4927	5815	6819	7966	9287	10825	12639	14810	17454	20745	24953	30523	38245
	3	3	3	4.5	4.5	4.5	6	7.5	7.5	9	10.5	13.5	15	19.5	24	31.5
7	2295	2792	3333	3925	4574	5291	6085	6969	7961	9081	10355	11817	13513	15504	17872	20737
	2295	2792	3333	3925	4574	5291	6085	6969	7961	9081	10355	11817	13513	15504	17872	20737
	3	3	3	3	4.5	4.5	4.5	6	6	7.5	9	10.5	12	13.5	15	18
8	1946	2353	2789	3260	3769	4320	4920	5575	6292	7082	7956	8928	10014	11238	12627	14215
	1946	2353	2789	3260	3769	4320	4920	5575	6292	7082	7956	8928	10014	11238	12627	14215
	3	3	3	3	4.5	4.5	4.5	6	6	8	7.5	9	9	10.5	12	13.5
9	1689	2032	2397	2787	3203	3649	4128	4643	5200	5802	6457	7170	7951	8809	9756	10808
	1689	2032	2397	2787	3203	3649	4128	4643	5200	5802	6457	7170	7951	8809	9756	10808
	3	3	3	3	4.5	4.5	4.5	4.5	6	6	7.5	7.5	9	9	10.5	12
10	1491	1788	2101	2433	2784	3157	3554	3977	4429	4912	5431	5988	6590	7240	7946	8714
	1491	1788	2101	2433	2784	3157	3554	3977	4429	4912	5431	5988	6590	7240	7946	8714
	3	3	3	3	3	4.5	4.5	4.5	6	6	6	7.5	7.5	9	9	10.5
11	1180	1596	1870	2158	2462	2782	3120	3477	3856	4258	4685	5140	5625	6144	6700	7297
	1180	1596	1870	2158	2462	2782	3120	3477	3856	4258	4685	5140	5625	6144	6700	7297
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	6	7.5	7.5	9	9
12	906	1430	1684	1939	2206	2485	2779	3088	3413	3756	4118	4500	4905	5334	5790	6275
	906	1430	1684	1939	2206	2485	2779	3088	3413	3756	4118	4500	4905	5334	5790	6275
	1.5	1.5	3	3	3	4.5	4.5	4.5	6	6	6	6	7.5	7.5	9	9
13	789	1112	1531	1759	1997	2246	2505	2777	3061	3359	3672	4001	4347	4711	5096	5502
	789	1112	1531	1759	1997	2246	2505	2777	3061	3359	3672	4001	4347	4711	5096	5502
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	7.5	7.5	7.5
14	565	903	1154	1610	1825	2048	2280	2522	2774	3038	3313	3601	3902	4218	4549	4897
	565	903	1154	1610	1825	2048	2280	2522	2774	3038	3313	3601	3902	4218	4549	4897
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	7.5	7.5	7.5
15	456	731	1097	1464	1679	1881	2091	2309	2536	2772	3017	3273	3539	3817	4108	4411
	456	731	1097	1464	1679	1881	2091	2309	2536	2772	3017	3273	3539	3817	4108	4411
	1.5	1.5	3	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5
16	373	599	901	1288	1555	1740	1931	2129	2335	2548	2769	2999	3237	3485	3744	4012
	373	599	901	1288	1555	1740	1931	2129	2335	2548	2769	2999	3237	3485	3744	4012
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	8	7.5
17	309	497	747	1070	1432	1618	1794	1975	2163	2357	2559	2767	2982	3206	3438	3679
	309	497	747	1070	1432	1618	1794	1975	2163	2357	2559	2767	2982	3206	3438	3679
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	7.5	7.5
18	258	416	627	898	1238	1511	1674	1842	2015	2193	2377	2568	2764	2968	3178	3396
	258	416	627	898	1238	1511	1674	1842	2015	2193	2377	2568	2764	2968	3178	3396
	1.5	1.5	1.5	3	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
19	217	351	530	760	1049	1369	1569	1725	1885	2050	2220	2395	2575	2762	2954	3153
	217	351	530	760	1049	1369	1569	1725	1885	2050	2220	2395	2575	2762	2954	3153
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
20	184	298	451	649	896	1198	1460	1621	1770	1924	2081	2243	2410	2582	2759	2942
	184	298	451	649	896	1198	1460	1621	1770	1924	2081	2243	2410	2582	2759	2942
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
21	157	255	387	557	770	1031	1318	1530	1669	1812	1959	2110	2265	2424	2588	2757
	157	255	387	557	770	1031	1318	1530	1669	1812	1959	2110	2265	2424	2588	2757
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
22	134	220	334	482	667	893	1165	1400	1578	1712	1850	1991	2136	2284	2437	2593
	134	220	334	482	667	893	1165	1400	1578	1712	1850	1991	2136	2284	2437	2593
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
23	116	190	290	419	580	778	1016	1275	1476	1623	1752	1884	2020	2159	2302	2448
	116	190	290	419	580	778	1016	1275	1476	1623	1752	1884	2020	2159	2302	2448
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
24	100	165	253	366	508	682	891	1138	1350	1542	1664	1789	1916	2047	2180	2317
	100	165	253	366	508	682	891	1138	1350	1542	1664	1789	1916	2047	2180	2317
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
25	87	144	221	321	446	600	784	1003	1239	1420	1584	1702	1822	1945	2071	2200
	87	144	221	321	446	600	784	1003	1239	1420	1584	1702	1822	1945	2071	2200
	1.5	1.5	1.5	1.5	3	3	4.5	4.5	4.5	4.5	6	6	6	6	6	7.5
Span	77	104	136	172	213	257	306	359	417	479	545	615	689	768	851	938
Area	316	502	749	1066	1462	1946	2527	3213	4012	4935	5990	7184	8528	10030	11698	13542
Volume	19143	26055	34031	43071	53174	64340	76570	89864	104221	119641	136125	153672	172283	191958	212695	234497
Weight	13922	16242	18563	20883	23203	25523	27844	30164	32484	34805	37125	39445	41766	44086	46406	48727

AFP 1.6E Short Span Header

Features & Advantages

BUILT-UP LUMBER SUBSTITUTE	SURFACE SEALED FOR STABILITY
FULL 3-1/2" WIDTH - NO SHIMMING	CONSISTENT QUALITY & UNIFORMITY
ONE PIECE INSTALLATION - SAVES \$\$	LIMITED LIFETIME WARRANTY

Allowable Design Stresses and Properties (100% Load Duration)

Standard depths (in)	4 1/8	5 1/2	7	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8
Weight (lbs./lineal ft.)	3.6	4.8	6.1	6.3	8.1	8.3	9.8	10.4
Flexural Stress, F_b (psi)	1500	1500	1500	1500	1500	1500	1500	1500
Compression Perp. to Grain, F_c (psi)	650	650	650	650	650	650	650	650
Horizontal Shear, F_v (psi)	160	160	160	160	160	160	160	160
Modulus of Elasticity, E (psi)	1.6×10^6	1.6×10^6	1.6×10^6	1.6×10^6	1.6×10^6	1.6×10^6	1.6×10^6	1.6×10^6

Notes:

1. Header weight based on 36 pcf.
2. Moment Capacities are based on span up to 16'.
3. Flexural Stress, F_b , shall be modified by Volume Factor, C_v , as outlined in AITC 117-Design and in the "97 National Design Specification (NDS) for Wood Construction.
4. Allowable design properties and load capacities are based on dry use conditions.

3 1/2" Width Header Specifications

Appearance Grade: Framing Grade
Protection: Surface Sealed & Bundle Wrapped
Standard Unit Size: 24pcs (4-1/8", 5-1/2" Depth)
12pcs (7", 7-1/4", 9-1/4", 9-1/2", 11-1/4", 11-7/8")
Standard Lengths: 10', 12', 14', 16', & 48'

AFP 1.6E Short Span Header

Short Span Header Comparison Table - AFP 1.6E vs. 2-Ply Lumber

Allowable Floor Load (PLF) - LDF=1.0														
Design Span =	3'		4'		5'		6'		8'		10'		12'	
Header Material	TL L/240	LL L/360	TL L/240	LL L/360	TL L/240	LL L/360	TL L/240	LL L/360	TL L/240	LL L/360	TL L/240	LL L/360	TL L/240	LL L/360
1.6E AFP 3-1/2" x 5-1/2"	1956		1098		701		485		271	225	171	115	118	67
2 ply - 2x6 #1 SYP	1421		959		723		504	485	281	205	153	105		
2 ply - 2x6 #2 SYP	1421		862		550		381		212	193	134	99		
1.6E AFP 3-1/2" x 7"	3170		1700		1137		788		441		280	237	192	137
2 ply - 2x8 #1 SYP	2179		1396		1026		797		446		283	240		
2 ply - 2x8 #2 SYP	2179		1396		919		636		355		225			
1.6E AFP 3-1/2" X 9-1/4"	4280		2640		1900		1378		772		491		339	317
2 ply - 2x10 #1 SYP	3417		2024		1437		1113		630		400			
2 ply - 2x10 #2 SYP	3417		2024		1310		907		507		322			
1.6E AFP 3-1/2" X 9-1/2"	4530		2760		1970		1464		815		518		358	343
1.6E AFP 3-1/2" X 11-1/4"	6600		3680		2550		2041		1144		728		503	
2 ply - 2x12 #1 SYP	5391		2849		1935		1463		897		571			
2 ply - 2x12 #2 SYP	5018		2819		1800		1247		698		443			
1.6E AFP 3-1/2" x 11-7/8"	6815		4080		2780		2110		1275		813		561	

Allowable Floor Load (PLF) - LDF=1.15														
Design Span =	3'		4'		5'		6'		8'		10'		12'	
Header Material	TL L/180	LL L/240	TL L/180	LL L/240	TL L/180	LL L/240	TL L/180	LL L/240	TL L/180	LL L/240	TL L/180	LL L/240	TL L/180	LL L/240
1.6E AFP 3-1/2" x 5-1/2"	2250		1264		805		559		312		198	172	136	100
2 ply - 2x6 #1 SYP	1635		1103		832		580		324	307	205	157		
2 ply - 2x6 #2 SYP	1635		992		633		438		245		155	148		
1.6E AFP 3-1/2" x 7"	2845		2048		2289		907		508		323		222	206
2 ply - 2x8 #1 SYP	2507		1607		1181		917		513		326			
2 ply - 2x8 #2 SYP	2507		1607		1058		733		410		260			
1.6E AFP 3-1/2" X 9-1/4"	4917		3222		2288		1586		889		566		391	
2 ply - 2x10 #1 SYP	3931		2329		1653		1281		725		461			
2 ply - 2x10 #2 SYP	3931		2329		1508		1045		584		371			
1.6E AFP 3-1/2" X 9-1/2"	5202		3255		2380		1674		938		597		412	
1.6E AFP 3-1/2" X 11-1/4"	7580		4536		3081		2332		1317		839		580	
2 ply - 2x12 #1 SYP	6201		3278		2226		1684		1033		658			
2 ply - 2x12 #2 SYP	5772		3243		2072		1436		804		511			
1.6E AFP 3-1/2" x 11-7/8"	8670		5088		3389		2539		1468		936		647	

NOTES:

- Values shown are the maximum uniform loads in pounds per lineal foot (PLF) which can be applied to the header. Header weight has been subtracted from the allowable total load (TL).
- When no live load (LL) is given, total load (TL) controls.
- Headers are assumed to be loaded on the top edge with continuous lateral support along compression edge.
- Allowable design values for 2 ply SYP built-up headers are per table 4B of the '97 NDS Supplement. Shear Parallel-to-Grain, F_v , values were increased by a shear stress factor, $C_H = 1.50$, as outlined in the NDS. Allowable Bending, F_b , values were increased by the Repetitive Member Factor, $C_r = 1.10$ for two plys, as outlined in the Wood Frame Construction Manual (WFCM) recognized by BOCA & SBCCI.

Load Table Notations and Examples

Anthony Glulam Floor and Roof PLF Load Notes

1. Values shown are the maximum uniform loads in pounds per linear foot (PLF) that can be applied to the beam. Beam weight has been subtracted from the total allowable load. Load tables are based on dry use conditions.
2. LDF = Load Duration Factor per code requirements.
3. Bearing length shown is required at each end of header, and is based on an allowable bearing stress of 740 psi for all tables except low stress header which is 650 psi. The beam must be sitting directly on top of 1 or more trimmers. A longer bearing length may be required depending on the material that the beam is bearing on. For example, if the beam is sitting on a SPF top plate, a longer bearing length will be required due to the lower compression perpendicular-to-grain design value for SPF.
4. The bearing lengths show the number of trimmers needed (e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc.). This is based on the maximum PLF loads. Shorter bearing lengths may be used with lighter loads.
5. Tables are based on simple span conditions using the actual span as the center-to-center of bearing. Tables do not apply for continuous or multiple span conditions. The clear opening for the actual span given can be found by subtracting the listed bearing length from the actual span.
6. The beam is assumed to be loaded on the top edge and supported at bearing points. The beams should be laterally braced.
7. For deflection limits of L/240 and L/480, multiply The Maximum Live Load figure (Row 2) by 1.5 and 0.75, respectively. For deflection factors of L/180 and L/360, multiply the Maximum Live Load figure (row 2) by 1.333 and 0.667, respectively. The result shall not exceed the total load.

Procedures for Using Simple Span Beam Tables

1. To size beams from the Floor and Roof PLF Tables it is required to have the following:
 - a. Live load determined by the governing Building Code
 - b. The dead load.
 - c. The beam span or clear opening.
 - d. Span carried or tributary width.
2. These tables may be used to size a simple span uniformly distributed loaded beam, or to determine the maximum load capacity of a specific size Glulam beam. The allowable loads shown in PLF tables include the beam weight. A simple span condition exist when the beam is supported on each end without overhangs. A continuous or cantilever loading application may require a balanced layout and an engineering or design review.

Garage Door Header: Single Story Example Problem

Determine the header size for the conditions below:

Roof Load Conditions:	Live (LL) = 30 psf
	Dead (DL) = 10 psf
Building Width (B)	= 24'
Overhang	= 2'
Header Actual Span (L)	= 17'

Formula:

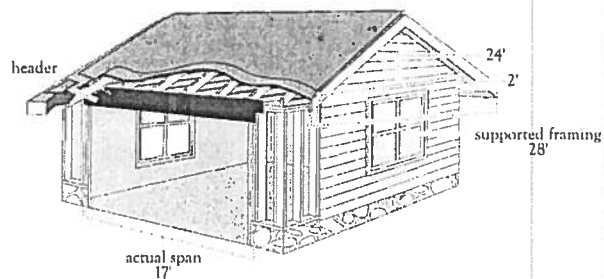
$$\text{Total Load} = (B/2 + 2') \times (LL + DL) = \text{total applied load in PLF}$$

$$\text{Live Load} = (B/2 + 2') \times LL = \text{total live load in PLF}$$

Example:

$$\text{Total Load} = (24/2 + 2) \times (30 + 10) = 560 \text{ PLF}$$

$$\text{Live Load} = (24/2 + 2) \times 30 = 420 \text{ PLF}$$



- To size:
1. Go to allowable roof load tables IJC. LDF = 1.15 and find the 17' actual span row.
 2. Using the top row, find a total load greater than 560 PLF (3.5 x 14)
 3. Using the middle row, find a live load greater than 420 PLF

Beam to select: 3-1/2 x 14 - 17' 3" or 18' (bearing required = 3")

Notes

1. Local code may require an engineered system of wall bracing for wall sections adjacent to door openings less than 4' in length. A glulam garage door header extended continuously over these shorter walls adjacent to the garage door opening is an integral part of these engineered systems.
2. If attic loading is anticipated, additional floor loading must be considered. Example: Add Floor LL=25, DL=10
Revised Total Load = 980 PLF; Live Load = 720 PLF (3.5 x 18 required)

Load Table Examples

Anthony Glulam Sizing Examples

Garage or Window Header: Two Story Example Problem

Determine the header size for the conditions below:

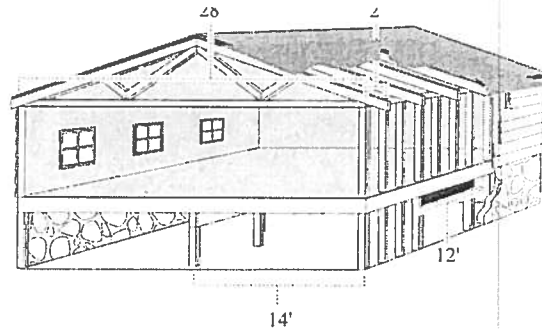
Roof Load Conditions:	Live (LL) = 30 psf
	Dead (DL) = 15 psf
	Total = 45 psf
Floor Load Conditions:	Live (LL) = 40 psf
	Dead (DL) = 10 psf
	Total = 50 psf

Calculate Total Load:

Roof Load	=	$(28/2 + 2) \times 45$	=	720 PLF
Floor Load	=	$(14/2) \times 50$	=	350 PLF
Wall Load	=	$8' \times 10 \text{ psf}$	=	80 PLF
Total Load	=		=	1150 PLF

Calculate Live Load :

Roof Load	=	$(28/2 + 2) \times 30$	=	480 PLF
Floor Load	=	$(14/2) \times 40$	=	280 PLF
Live Load	=		=	760 PLF



To Size:

- Go to 24F IJC Floor Load Table using LDF = 1.00 and 12' actual span row.
- Using top row, find total load equal to or greater than 1150 PLF. Pick the 3 1/2 x 16" since (1170 for 3 1/2 x 14") is less than 5%. It is safer to go up one size.
- Using middle row, find live load equal to or greater than 760 PLF. Total Load controlled, use 3 1/2 x 16" 24F IJC.
Beam to Select: 3-1/2 x 16 (3" bearing required) or 5 1/2 x 14 (3" Bearing required)

24F V3 Architectural Floor Girder Beam Example Problem

Floor Load Conditions:	Live (LL) = 40 psf
	Dead (DL) = 12 psf

Building Width (B) = 24'

Calculate Total Load:

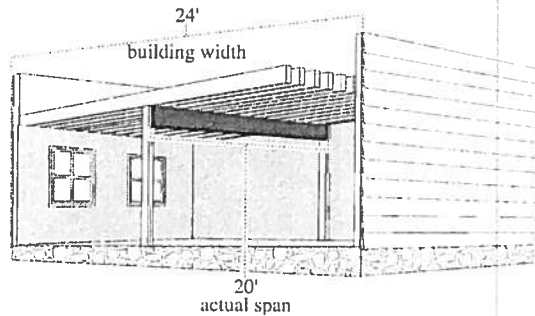
$$\text{Total Load} = (24/2) \times (40 + 12) = 624 \text{ plf}$$

Calculate Live Load:

$$\text{Live Load} = (24/2) \times 40 = 480 \text{ plf}$$

Beam to Select (Floor Load Table):

5-1/8 x 16 1/2 - 20'3" or 21' (Bearing Required 3")



24F V3 Architectural Simple Roof Rafter Example Problem

Determine the rafter size for the conditions below:

Roof Load Conditions:	Live (snow) = 25 psf
	Dead = 15 psf

Rafter Spacing: 5' on center

Rafter Span: 20'

Slope: 4/12

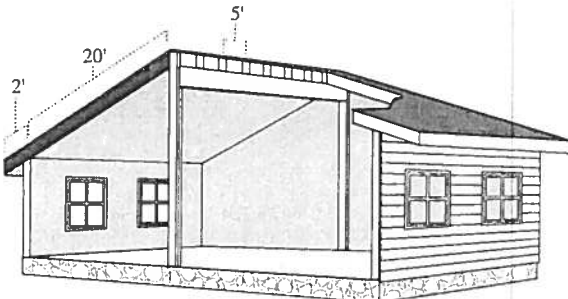
Calculate Total Load:

$$\text{Total Load} = 5(25 + 15) = 200 \text{ plf}$$

$$\text{Live Load} = 5(25) = 125 \text{ plf}$$

Beam to Select (Roof 1.15 Table):

3-1/8 x 12 3/8 (Bearing Required 1.5")

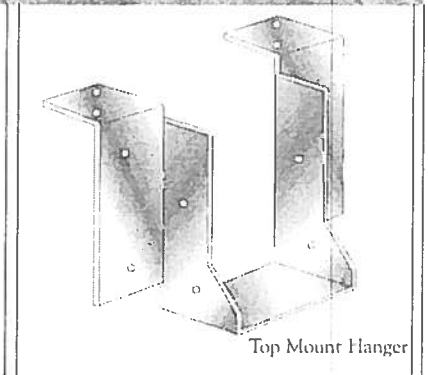
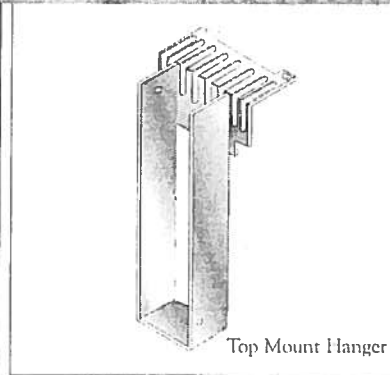
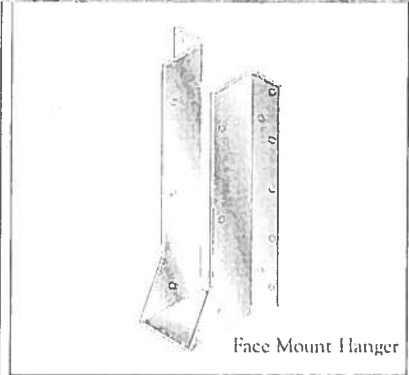


Note: If roof is greater than 4/12 pitch, dead load must be figured on total horizontal length of rafter.

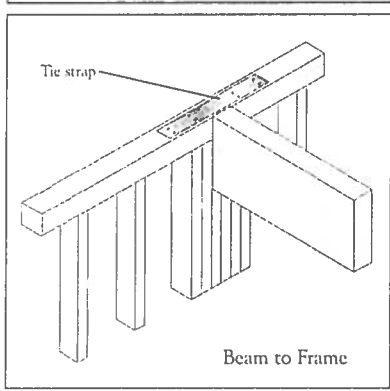
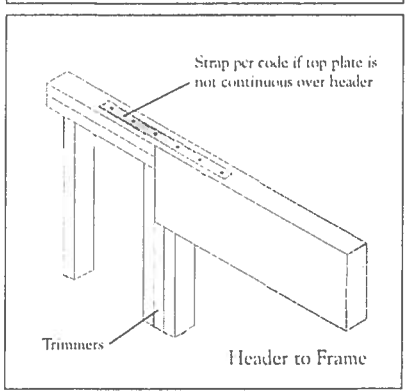
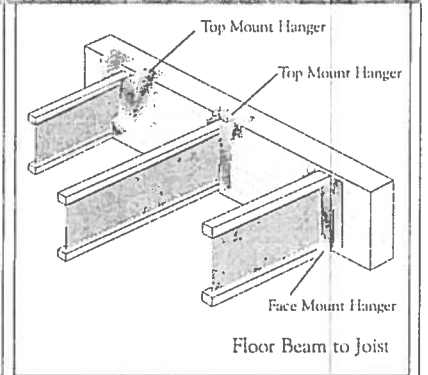
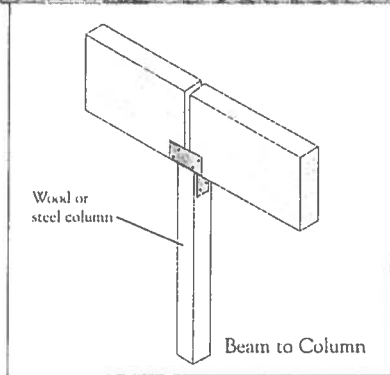
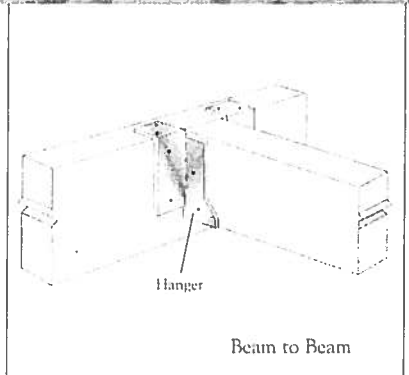
Connection Details

Common types of connections and connection details are shown. The design values for most connectors used with the Glulam are the same as those for solid timber and VVL. It must be noted that connections designed for specific applications may vary based on design loads and local code requirements. More information on connections can be found in AITC 108 "Typical Construction Details," published by the American Institute of Timber Construction. Your local Glulam dealer can also provide connection detail literature and hardware.

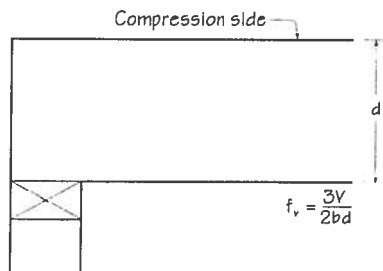
Typical Hangers



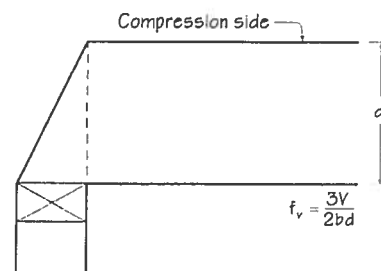
Typical Connections



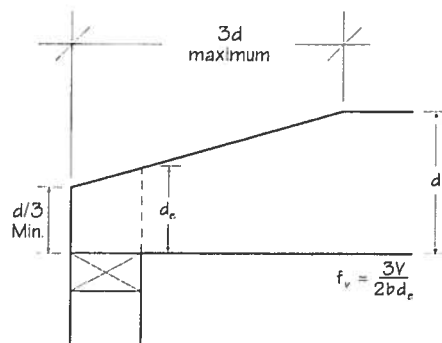
Shear Design Equations for Notched and Tapered Beams



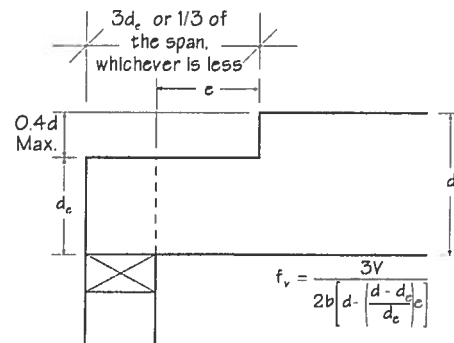
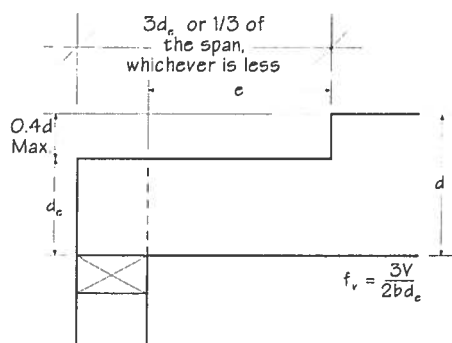
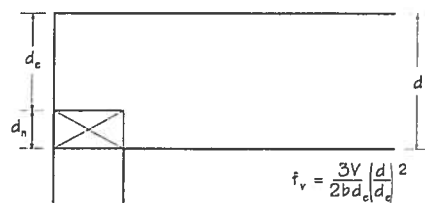
(a) Square End Bearing



(b) Slope End Bearing



(c) Sloped End Cut for Roof Drainage

(d) Compression-side notch - Where $e \leq d_e$ (e) Compression-side Notch - Where $e > d_e$ 

Maximum depth of end notch, d_n , is 0.1d or 3 inches, whichever is less
(f) Tension-side Notch

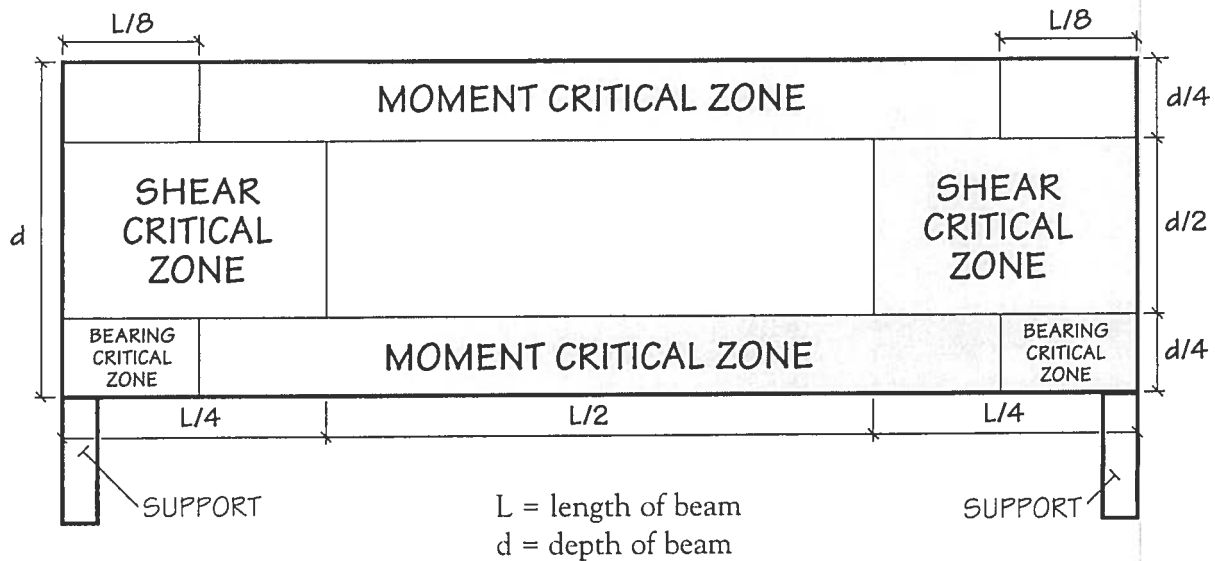
f_v = shear stress (psi)
 d = depth of beam (in.)

V = shear force at notch location (lb)
 d_e = effective depth as shown (in.)

b = width of beam (in.)
 e = length of notch as shown (in.)

Source: APA EWS S560

Guidelines for Drilling Horizontal Holes



DO NOT DRILL IN CRITICAL ZONES

UNIFORMLY LOADED SINGLE SPAN BEAM GLUED LAMINATED TIMBER

Notes:

1. The maximum size horizontal hole (through the width of the beam) shall not exceed 1-1/2 inch.
2. **Edge and End Spacing:** Any horizontal hole must be a minimum of 4 hole diameters from the top or bottom surface of the glued laminated timber member, and 8 hole diameters from the member ends. The distance is measured from the edge of the member to the centerline of the hole.
3. **Spacing between holes:** Field added open or access holes not shown on the contract drawings shall be a minimum of 8 hole diameters from any hole in the member. The distance is measured from the edge of the hole to the nearest edge of the existing hole.
4. **Number of holes:** Determine the number of field added holes allowed by allowing one hole per each 5 foot length of the member. (This rule does not apply to spacing of holes.)
5. **Other holes:** Holes not described here require review by a qualified timber designer.

Vertical 1/2" Diameter Holes in Glulam Beams

While field-drilling vertical holes in Glulam beams should be avoided, there are situations where they may be required. This Technical Note provides guidance on the drilling of a single 1/2" vertical hole in simple span Glulam beams of various thicknesses. These recommendations are based on a "worst case" scenario that assumes the beam is placed at its maximum span and is fully loaded with uniformly distributed loads. Concentrated or other non-uniform loads have not been considered and for such loads or other situations the effect of drilling a vertical hole should be checked by a qualified design professional.

Background:

In analyzing a beam for the effect of drilling a single vertical hole it is necessary to consider both shear and bending capacities. Since the shear design requirements are greatest at the ends of the beam, vertical holes generally cannot be placed at these locations without analysis by a qualified design professional. In a similar manner, the center of the span is the area of maximum bending stress, and again, a design professional's analysis is required when holes are desired to be placed in these areas. Between the areas of high shear and high bending stress, small vertical holes can be placed. This Technical Note provides guidance on the location of these safe areas for drilling vertical holes 1/2 inch or less in diameter.

Drilling the hole:

These holes must be carefully drilled along the vertical axis of the beam. (see **Figure 1**.) If the beam is deep it is recommended to use a drill guide and a sharp bit to preclude the bit from wandering as it passes through the beam depth. In addition, the beam should be inspected at the possible hole location to insure that there are no knots, Knot-holes, finger joints or other allowable defects in the vicinity of the hole (within the width of the beam on either side of the hole).

Figure 1: Hole in Glulam Beam

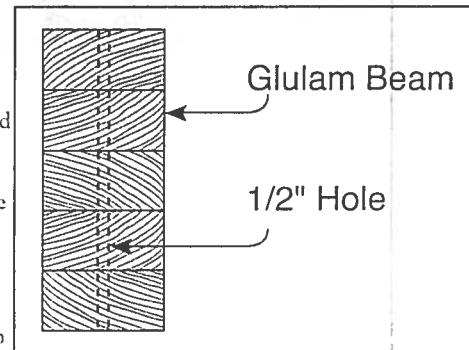
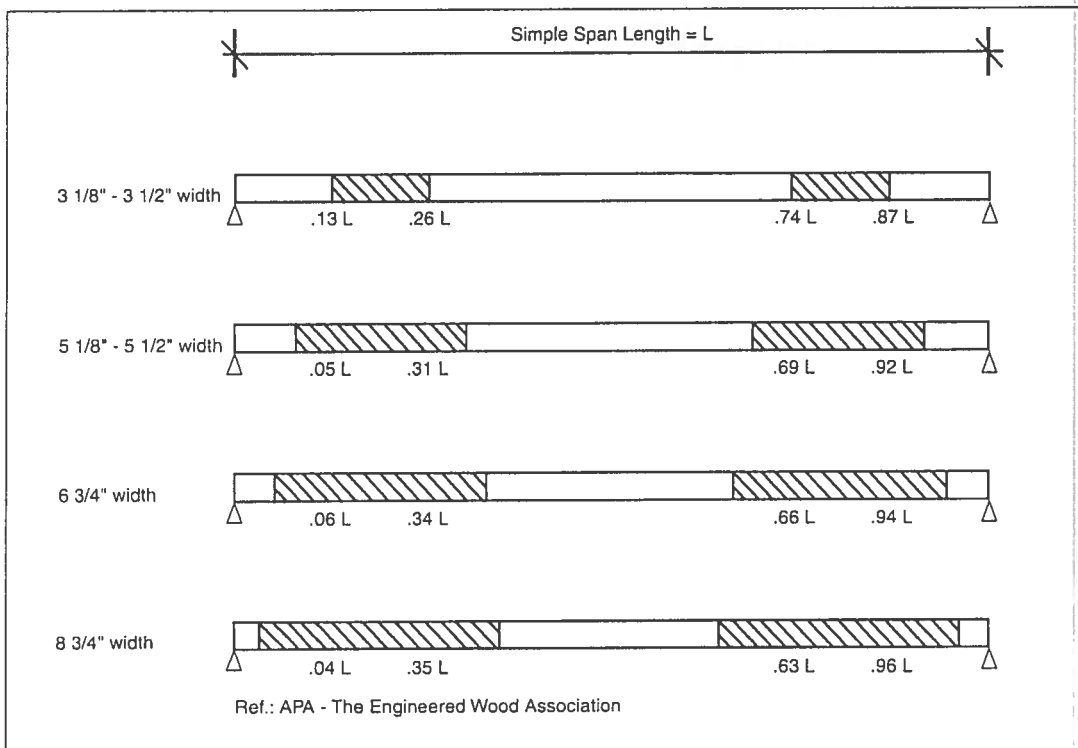


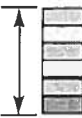
Figure 2 is provided to illustrate the allowable location for these vertical, 1/2" diameter holes:

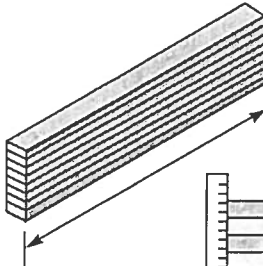


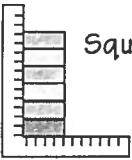
Dimensional Tolerances

All Allowable Tolerances shown below are at time of manufacture per ANSI A190.1.

Width:  Plus or minus 1/16" of the specified width.

Depth:  Plus 1/8" per foot of depth. Minus 3/16" or 1/16" per foot of depth, whichever is larger.

Length:  Plus or minus 1/16" up to 20 feet. Plus or minus 1/16" per 20 feet of the specified length, except where length dimensions are not specified or critical.

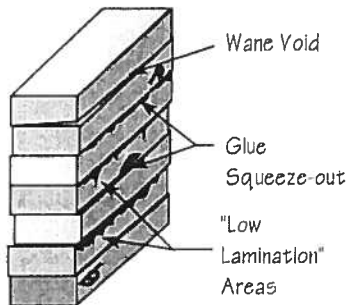
Squareness:  The cross section of all glued laminated structural members shall be square within plus or minus 1/8" per foot of specified depth of the member, unless a specially shaped member is specified.

Camber:



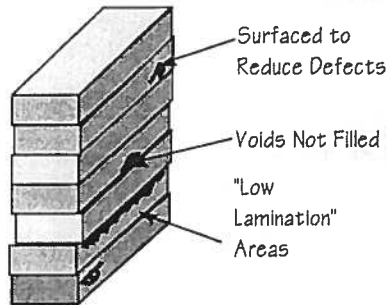
The tolerances are applicable at the time of manufacture without allowance for dead load deflection. Plus or minus 1/4" up to 20 feet. Over 20 feet increase tolerance 1/8" per each additional 20 feet not to exceed 3/4".

Glulam Appearance Grade



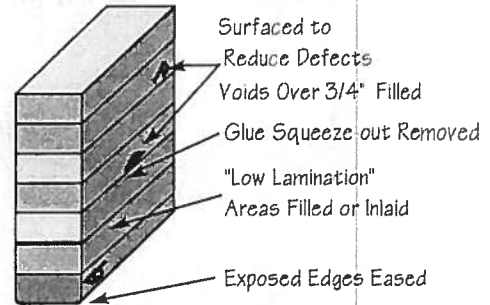
Framing Appearance

- Laminations may possess the natural growth characteristics of the lumber grade.
- No voids or low laminations are filled.
- Members have a "Hit and Miss" (more miss) appearance.
- Glue smear is allowed.
- Most common widths 3 1/2" and 5 1/2".



Industrial Appearance

- Laminations may possess the natural growth characteristics of the lumber grade.
- No voids or low laminations are filled.
- Members are surfaced in accordance with APA industrial finish standards.

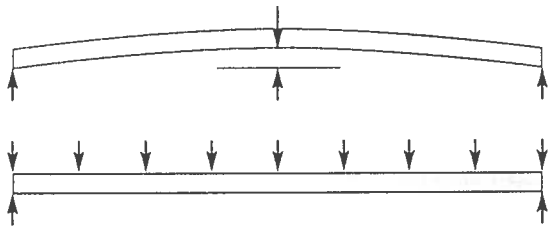


Architectural Appearance

- Laminations may possess the natural growth characteristics of the lumber grade.
- Voids larger than 3/4" are filled with putty.
- Exposed faces are surfaced and low laminations are repaired.
- Exposed edges are eased.

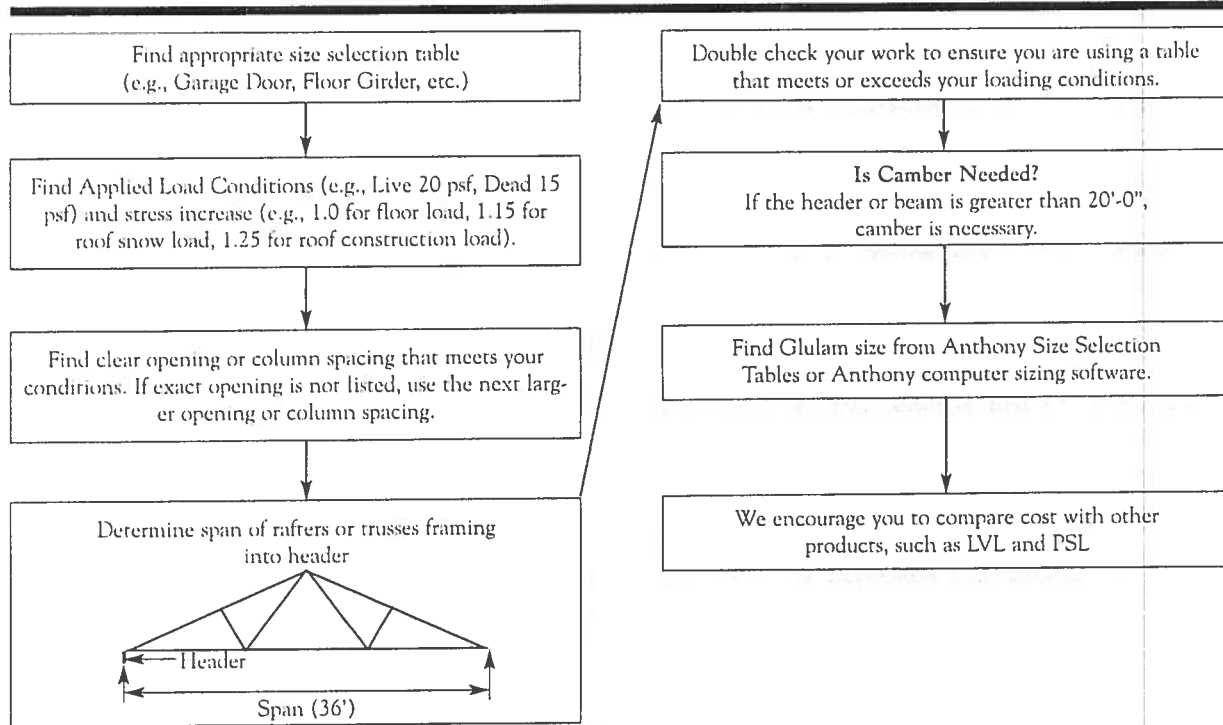
Standard Radius or Curvature (feet)

Camber is the amount of bend or curvature which can be built into a Glulam as offset anticipated deflection or to compensate for dead load deflection. This is important for longer spans where other non-cambered engineered wood products may sag after loads are applied. Anthony Forest's standard radius is 2000'. Built-in camber will reduce ponding on flat roofs and eliminate unsightly appearance of deflection under load. Glulam is also offered non-cambered.



Camber Before Installation

Camber After Installation With Roof and Wall Loads Applied
Without camber, a beam or header may sag after loads are applied.



Camber is the amount of bend or curvature which can be built into a Glulam beam to offset anticipated deflection or to compensate for dead load deflection.

example: a 2000' Anthony Glulam beam at 12' allows 1/8" camber

	LENGTH							
	10	12	14	16	18	20	22	24
2000' Radius	1/8"	1/8"	1/8"	1/4"	1/4"	1/4"	3/8"	3/8"
	26	28	30	32	34	36	38	40
	1/2"	5/8"	5/8"	3/4"	7/8"	1"	1 3/8"	1 1/4"
	42	44	46	48	50	52	54	56
	1 3/8"	1 1/2"	1 5/8"	1 3/4"	1 7/8"	2"	2 1/4"	1 3/8"
	58	60						
	2 1/2"	2 3/4"						

Power Column[®]

Features

- *Combination #50 (#1 Dense SYP)*
- *Architectural & Industrial Appearance*
- *Individually Wrapped*
- *3 1/8", 3 1/2", 5 1/8", 5 1/2" & 6 3/4" Widths*

Service and Support

- *National distribution through stocking dealers*
- *Comprehensive technical support literature*

Anthony Power Columns – Combination #50

Column Length	3-1/8 x 4-1/8			3-1/8 x 5-1/2			3-1/8 x 6-7/8			3-1/8 x 8-1/4		
	Eccentric			Eccentric			Eccentric			Eccentric		
	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
4'	12650	14040	14900	19370	21230	22340	24210	26540	27930	29050	31840	33510
6'	9320	9900	10230	11190	13890	14280	16490	17360	17850	19790	20830	21420
8'	6470	6730	6880	8910	11540	9420	11140	11540	11770	13370	13850	14130
10'	4640	4780	4860	6330	8130	6600	7910	8130	8250	9490	9750	9900
12'	3460	3540	3590	4700	6010	4860	5870	6010	6080	7050	7210	7300

Column Length	3-1/2 x 3-1/2			3-1/2 x 4-1/8			3-1/2 x 5-1/2			3-1/2 x 6-7/8		
	Eccentric			Eccentric			Eccentric			Eccentric		
	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
4'	11698	12325	12662	14550	16370	17540	23010	25490	27010	28760	31860	33760
6'	9045	9235	9322	11630	12520	13030	16790	17840	18440	20980	22290	23050
8'	6510	6553	6574	8430	8830	9060	11700	12190	12470	14630	15420	15590
10'	4755	4770	4778	6160	6370	6490	8440	8710	8860	10550	10880	11080
12'	3592	3599	3602	4650	4780	4850	6330	6490	6580	7910	8110	8230
14'	2798	2802	2804	3620	3700	3750	4900	5010	5070	6130	6260	6340

Column Length	5-1/8 x 5-1/2			5-1/8 x 6-7/8			5-1/8 x 8-1/4			5-1/8 x 9-5/8		
	Eccentric			Eccentric			Eccentric			Eccentric		
	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
6'	30860	34270	36390	40880	45190	47840	49050	54230	57410	57320	63270	66980
8'	25680	27720	28920	33270	35700	37110	39920	42840	44540	46570	49980	51960
10'	20500	21690	22380	26060	27420	28210	31270	32910	33850	36480	38390	39490
12'	16340	17060	17450	20480	21330	21810	24580	25590	26170	28670	29860	30530
14'	13100	13550	13810	16380	16490	17260	19660	20330	20710	22930	23710	24160
16'	10670	10990	11170	13340	13730	13960	16010	16480	16750	18680	19230	19540
18'	8840	9070	9200	11050	11340	11500	13270	13600	13800	15480	15870	16100
20'	7440	7610	7700	9290	9510	9630	11150	11410	11550	13010	13310	13480

Column Length	5-1/2 x 5-1/2			5-1/2 x 6-7/8			5-1/2 x 8-1/4			5-1/2 x 9-5/8		
	Eccentric			Eccentric			Eccentric			Eccentric		
	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
6'	33360	37120	39470	44360	49770	53190	54290	60360	64140	63330	70420	74830
8'	28100	30480	31880	37870	40960	42770	45440	49160	51330	53020	57150	59880
10'	22750	24150	24970	30350	32110	33120	36420	38530	39750	42480	44950	46370
12'	18280	19170	19690	24160	25250	25880	28990	30300	31060	33820	35350	36320
14'	14850	15450	15790	19470	20200	20620	23370	24240	24740	27260	28280	28870
16'	12230	12650	12900	15950	16460	16750	19140	19750	20100	22330	23040	23450
18'	10220	10530	10710	13270	13640	13850	15920	16370	16620	18580	19100	19390
20'	8650	8890	9020	11190	11470	11630	13430	13770	13960	15670	16060	16280
22'	7410	7590	7700	9560	9770	9890	11470	11730	11870	13390	13680	13850

Column Length	6-3/4 x 6-7/8			6-3/4 x 8-1/4			6-3/4 x 9-5/8			6-3/4 x 11		
	Eccentric			Eccentric			Eccentric			Eccentric		
	100%	115%	125%	100%	115%	125%	100%	115%	125%	100%	115%	125%
8'	49570	54870	58130	63060	70000	74060	73920	81660	86400	84480	93330	98740
10'	42930	46510	48620	54430	58780	61320	63500	68580	71540	72570	78380	81670
12'	36210	38540	39890	45490	48240	49830	53070	56280	58130	60650	64320	66440
14'	30310	31900	32820	37770	39610	40670	44070	46210	47450	50360	52810	54230
16'	25500	26630	27280	31560	32860	33610	36820	38330	39210	42080	43810	44810
18'	21640	22480	22950	26640	27590	28140	31080	32190	32820	35520	36790	37510
20'	18540	19170	19540	22730	23440	23860	26510	27350	27830	30300	31260	31810
22'	16030	16520	16810	19580	20140	20460	22850	23500	23870	26110	26850	27280
24'	13990	14370	14600	17030	17470	17720	19870	20380	20670	22710	23390	23630

Notes:

- The tabulated capacities are for glued laminated timber columns of constant cross section under dry conditions of use.
- For eccentric conditions, loads have been adjusted for the worst case eccentric loading of 0.167 of the column thickness or 0.167 of the column width.
- Loads are based on axial loads in accordance with the 1997 National Design Specifications for Wood Construction. For side loads or other combined bending and axial load conditions, see the appropriate provisions of the '97 NDS.
- Columns are unbraced except at the column ends and the effective column length is equal to the actual column length.
- Column equation adjustments have been made for coefficient of variation (COV) of 0.15 for columns with 3 to 5 laminations, and 0.10 for columns with 6 to 8 laminations.
- Capacities have been rounded to nearest 10 lb.
- Columns are limited to a maximum effective length/least dimension (l_e/d) of 50.
- The effective buckling length factor used is $K_e = 1.00$.

COMBINATION #50 ALLOWABLE DESIGN PROPERTIES (LDF=1.0)

Modulus of Elasticity, $E = 1.9 \times 10^6$ psi

Flexural Stress, $F_b = 2100$ psi (Bending about X-X Axis)
 $F_b = 2100$ psi (Bending about Y-Y Axis 3-1/2" & 4-1/8" depths)
 $F_b = 2300$ psi (Bending about Y-Y Axis 5-1/2" to 11" depths)

Compression Parallel to Grain, $F_c = 1700$ psi (3-1/2" & 4-1/8" depths)
 $F_c = 2300$ psi (5-1/2" to 11" depths)

Engineered Timbers

...offer versatility, economy, strength, and durability

Versatility

Anthony glued laminated timber has a proven track record of reliability for a variety of structural applications. Exposed beams offer a dramatic design element, yet provide an unusual sense of softness, natural charm, and inviting warmth.

At the same time, engineered timber construction provides an exceptionally high level of safety, durability and cost efficiency. Kiln-dried Anthony Glulam offer a strong, workable long span performance capability unmatched by any other building material.

Cost Effective/Energy Efficient

Anthony Glulam is surprisingly economical as compared to the higher cost composites or steel. The Glulam has a high strength to weight ratio and is sized to fit all system-type framing applications. One piece construction reduces building time and cost, and the Glulam can be trimmed to fit on the job site.

The energy efficiency of engineered timber can provide additional savings to the property owner. The natural thermal and insulating qualities of laminated wood can be combined with thermally efficient insulation materials to keep heat loss at a minimum.

Strong, Durable, Fire Safe, and Stable

Throughout history, wood has been a durable building material, assuming proper principles of design, construction, and maintenance are followed. The Anthony Glulam provides an even higher degree of proven quality manufacturing.

Both the 2400F and 3000F Power Beam exhibit property characteristics superior to solid sawn wood. Extra precautions are taken to ensure all laminations are kiln-dried to a maximum 15% moisture content. The end product results in a beam member with an exceptional level of dimensional stability, virtually eliminating checking, twisting, warping, and shrinkage.

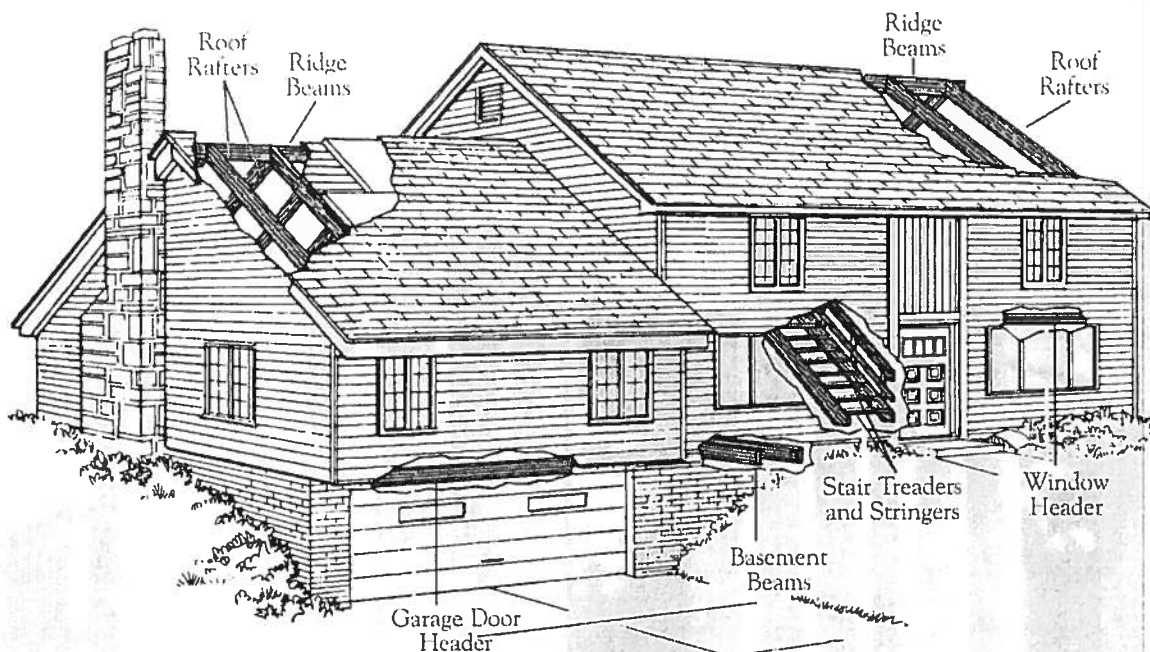
High resilience allows Glulams to absorb shocks that could rupture alternative building materials like concrete or steel. Glulam is also ideal for use in areas subject to high winds or earthquake damage. Glulam also has excellent fire-resistive qualities. The performance of Glulam under fire conditions is markedly superior to most unprotected non-combustible materials.

Readily Available

The Anthony Glulam is readily available through a network of stocking distributors throughout the country. Glulams are offered in specified lengths up to 60' in industrial, architectural, and premium grades. All beams are either bundled or individually wrapped with water-resistant paper. Beams are squared-end trimmed and manufactured with a standard 2000' radius camber or no-camber.

Computer Software

Anthony Forest offers a Windows friendly sizing software for fast and accurate sizing of most beam applications.



Power Products Storage, Protection and Handling Instructions

Glued laminated wood materials like Anthony Power Products are a specialized product manufactured to designed strength and appearance standards. As with other building products, however, wood can be affected by the care – or lack of care – used during storage. Proper handling is important to insure that glued laminated wood material retain both the structural and appearance standards intended by the designer and built into the product at the plant. Following these simple precautions will help you obtain the kind of installation of which we can both be proud.

Unloading

If damage or loss in transit exists, do not unload until the delivering carrier has made an inspection. The carrier will not accept a damage claim unless its own inspection report accompanies the claim. Describe damage or loss in writing and file your written claim with the carrier. At the same time notify our sales office.

Material sold F.O.B. railcars or truck requires unloading by you. Use sufficient manpower and proper equipment. Tally quantities against material list. Do not drop or drag laminated materials. Use care in handling to prevent damage to finished surfaces; nylon or plastic slings are desirable.

Storage

The customer is responsible for protection of this material at all times after arrival. *Dimensional changes occur in wood with changes in moisture content.*

Product Handling & Protection

It is the responsibility of the buyer to request the shipper to tarp a truck. Schedule delivery and installation of glue laminated wood members to avoid extended yard or jobsite storage.

Keep Power Products as dry as possible during delivery, storage, handling and erection. If yard storage is necessary, place members on blocking away from ponding water or store under shed.

Proper yard and jobsite protection of Power Products is essential in maintaining dimensional stability. *The Power Beam® at I-joist compatible depths makes it ever more important to keep dry.* All Power Products are manufactured with a moisture content that averages 12%. As a general rule, for every 4% increase or decrease in MC, the beam will increase or decrease in size by 1%. Anthony Forest Products Company cannot be held responsible for physical changes that may occur as the result of constant

exposure to the elements and/or pressure preservative treated Power Products. These changes (severe checking, splitting, cupping and warping) may occur if beams are not properly protected from exposure to the elements.

Time of removal of factory wrapping is optional, but, it must be emphasized that factory applied wrapping provides additional protection from damage in handling and in-transit only. If beams are wet and still in the wrap, it must be removed. Increases in width and depth will occur if wrap stays on. If further utilization of the wrap is desired for protection after shipment, the members should be inspected and provided with additional protection as necessary. If it is impractical to replace wrapping, all of it should be removed. Do not leave members partially exposed due to potential sun bleaching. Do not allow moisture to accumulate inside wrapping. When you must store Power Products at the jobsite, use the same care as with other mill work. Place on blocks well off the ground, separate with stripping in a vertically aligned position so air circulates around all four sides of each member and cover top and all sides with moisture-resistant paper, tarps or black polyethylene.

Erection

On unbalanced and cambered beams, there is a top and bottom of a beam. The top is always the narrow face where protective paper is folded and stapled. The top face will also have "TOP" stamped on the beam. Always place top towards the ceiling. If wrappings are removed temporarily at connections, replace them securely. After members are erected, if wrapping is to be left on, it is recommended that the wrapping paper be slit on the bottom or soffit face in several places along the member length to prevent water from being entrapped in the paper.

Error or Defect

In case of fabrication error or material defects, immediately notify nearest sales office. Anthony Forest reserves the right to investigate and correct alleged errors and defects. Please call the sales office to notify of any problems.

Finally

Following these suggestions will help assure a satisfactory product and will assist us in maintaining our high standard of quality and customer product acceptance.

We appreciate the opportunity to furnish Anthony Power Products for your customers.



Power Products CERTIFICATE OF WARRANTY

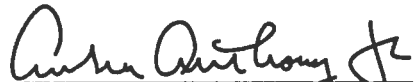
Anthony 30F Power Beam®, Anthony 24 F Glulam, Power Header®, Power Column™, Power Joist™, Power Log® and Power Plank® are superior glued laminated products engineered for reliable, lower cost performance in industrial and residential uses. Anthony Power Products are manufactured under strict quality control procedures.

We guarantee our family of Power Products to be free from defects in design, materials and workmanship.

We guarantee prompt and courteous customer service. For a detailed copy of our limited lifetime warranty, call us at 1-800-221-BEAM.

We guarantee to pay for all reasonable repair or replacement costs if you have problems due to a defect in our Power Products.

Our family name is on all of our Power Products. We intend to live up to our reputation for quality and service. We appreciate your confidence and your business.


Aubra Anthony, President & CEO

Laminated Structural Products from Anthony Forest Products Company

Our choices of manufactured structural building products can have an impact on our environment and our consumption of energy. It is important to note that wood products have many advantages over aluminum, steel and concrete which are energy intensive to produce.

Glulam production uses a readily available and renewable resource of narrow dimension lumber from second and third growth timber as its raw material. Computer technology and advanced manufacturing processes enable the end-product to optimize fully our raw materials. As a construction material, wood requires very little energy to manufacture, and is 4 times more efficient as an insulator than cinder block, 6 times more efficient than brick, 15 times more efficient than concrete and 1,770 times more efficient than aluminum.

For more information on Glulam, or other laminated structural products from Anthony Forest Products Company, please call 1-800-221-2326 or Fax at 870-862-6502 or call your local dealer.



Anthony Forest Products Company

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E-mail: info@anthonyforest.com • Website: www.anthonyforest.com

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BE CONSTRUCTIVE™
WOOD