

POWER PRESERVED GLULAM[®] BEAMS AND COLUMNS



Tomorrow's Engineered Wood - TodaySM

Certified Building Products



POWER PRESERVED GLULAM CREATE STRONGER, LONGER



Surfside Beach Community Center

POWER PRESERVED GLULAM® (PPG)

Anthony Forest Products has been a name to trust in the glued laminated timber business for over 45 years. Anthony stock 2400F_b – 1.8E – 300F_v SYP glulam has been our mainstay in business along with the high strength Power Beam® 3000F_b – 2.1E – 300 F_v IJC beam.

With the shortage of high quality, high strength, solid southern pine treated timber, Anthony offers Power Preserved Glulam® Beams, which have been pressure treated with Hoover Cop-Guard® or Cop-8® at .04 pounds per cubic foot (PCF) or .02 pounds per cubic foot retention levels suitable for

above ground uses respectively. Power Preserved Glulam® products will resist fungal decay and wood-destroying insect attacks and are covered by a 25 year warranty by Hoover.

FACT SHEET

- 2400F_b – 1.8E – 300F_v SYP glulam industrial grade
- High strength allows for reduction in size of columns or number of pilings and piers.
- Two separate warranties for your protection
- Balanced lay-up and zero camber
- No top or bottom
- As environmentally safe as untreated wood

- Above ground use for beams (AWPA use categories UC3B) and ground contact for the columns (AWPA use categories UC4A, UC4B and UC4C)
- For PPG Beams sizes not listed, please call Anthony Forest

FASTENERS

- Non-Corrosive fasteners may be used with PPG in protected areas.
- Corrosion resistant fasteners are required if a connection is made to other water borne copper treated wood.
- Local building code requirements will always supersede above restrictions.

GLULAM® BEAMS AND COLUMNS FOR LONG-LASTING STRUCTURES

SUGGESTED USES (EXTERIOR ONLY)

- Decks, patios, trellises, pergolas and covered park shelters
- Raised Floor Construction
- Spans longer distances requiring fewer columns for less obstructed views, turning outdoor space under your deck into an outdoor living area
- Coastal construction boardwalk and pier/beam foundation
- Light commercial and bridge construction



Copper Naphthenate (CuN) has been used as a wood preservative for over 100 years. Cop-Guard® and Copper 8 quinolinolate Cop-8® are both dissolved in low odor mineral spirits as a carrier and are an ideal fungicide and insecticide for the long term preservation of wood products in above ground uses. PPG and columns have a green coloration when treated with Cop-Guard® and have no real color change when treated with Cop-8® as shown in the picture. Cop-8® is the only wood preservative approved by the FDA (Food & Drug Administration) for contact with food goods in transportation. Both preservatives are low in toxicity, environmentally safe, clean, and non-corrosive to fasteners. For more information on Cop-Guard® and Cop-8®, please see the MSDS sheets and Consumer Information Sheets (CIS) on our website www.anthonyforest.com.

Power Preserved Glulam® Beams and Columns Advantages Over Waterborne Preservative Treated Wood

- No swelling or shrinkage of the beam
- Less checking, cupping, or twisting of beam



CCC Bridge Davy Crockett National Forest in Lufkin, Texas

- Three times as strong as #2 PT SYP 4x12 (2400F_b vs 750 PSI)
- No strength reductions required after treatment
- Automatic substitute for treated SCL
- Stainable and Paintable (See restrictions.)
- Not considered hazardous material

CONDITIONS OF USE (DRY OR WET)

Power Preserved Glulam® products are recommended for above ground use where the equilibrium moisture content (EMC) of the laminated beam will not exceed 16% thus allowing dry-use design values (over 16% considered wet-use.) The definitions of dry and wet service vary from the many publications available on the subject. The USDA Forest

Products Lab “Wood Handbook” shows how the equilibrium moisture will change with relative humidity and temperature. Although there will be intermittent wetting of the exposed beams, drying normally occurs, and therefore, the beam does not reach a “wet-use” condition.

CODE APPROVALS

Power Preserved Glulam® is manufactured in accordance with ANSI A190.1, which is the code recognized standard for glued laminated timber and is accepted nationwide under the ICC-ESR 1940 and APA Product Report L282. The adhesive used in our glulam conforms to wet-use complying with ASTM D2559. The APA-EWS is our third party inspection agency.

AWPA Use Categories	SYP Preservative Retention Comparison Table (pcf)						
	Preservative Type						
Above Ground UC3B (Exterior)	ACQ	ACD	Cop8®	Cop-Guard®	MCQ	MCA	Penta
	0.25	0.17	0.02	0.04	0.15	0.07	0.30
Ground Contact							
UC4A	0.40	0.28	N/A	0.075	0.34	0.07	0.60
UC4B	0.60	0.28	N/A	0.075	0.60	0.16	0.60
UC4C	0.60	0.28	N/A	0.075	0.60	0.24	0.60

RESTRICTIVE USES

Power Preserved Glulam® treated with Cop-Guard® at .04 PCF and Cop-8® at .02 PCF retention (UC3B) are for above ground use only. Power Preserved Glulam® products shall not be used in any applications in direct contact with bituminous materials such as deck protective wrap, asphalt/tar/felt paper, ground, water, or marine applications.

After thorough drying and stain blocking primer has been applied, PPG Beams are stainable and paintable (Columns are not).



Raised Beach Home



Pergola



Raised Floor Construction

Table 2: Power Preserved Glulam® Design Value Comparison (PSI)

Product	F_b (Flexural Stress)	MOE (Modulus of Elasticity)	F_v (Horizontal Shear)	$F_{c\perp}$ (Compression Perpendicular to Grain)
Power Preserved Glulam® ¹	2400	1.8x10 ⁶	300	740
Treated SCL ²	2117	1.7x10 ⁶	241	533
#2 Treated SYP 4x12 ³	750	1.4x10 ⁶	170	379

¹"Dry-Use" means the treated beam does not exceed 16% maximum moisture content.

²SCL or structural composite lumber is treated with water borne preservatives for service level 1 or dry-use. For service level 2 or wet-use, additional reductions are required.

³SYP 4x12 is treated with water borne preservatives for wet-use. No wet-use reduction applied.

Table 3: Anthony Glulam Beam Design Comparisons

Product	Layup Combinaton	Modulus of Elasticity E (10 ⁶ psi)	Flexural Stress F_b (psi) ²		Shear F_v (psi) ³	Compression Perpendicular to Grain $F_{c\perp}$ (psi)
			Tension Zone	Compression Zone		
Power Beam®	30F-E2	2.1	3,000	3,000	300	805
24F Stock Glulam	24F-V4	1.7	2,400	1,850	170-210	740
Power Preserved Glulam	24F-V5M1	1.8	2,400	2,400	300	740
Wet-Use Factor ¹		0.833	0.8	0.8	0.875	0.53

¹The tabulated values are for moisture content of less than 16%. For wet-use, the design values must be multiplied by the wet-use factor.

² F_b shall be adjusted by the volume effect factor using the following formula: $C_v = (5.125/b)^{1/20} \times (12/d)^{1/20} \times (21/L)^{1/20} \leq 1.0$

Where: b = beam width (in.), d = beam depth (in.), L = beam length (ft.)

³For non-prismatic members, notched members, members subject to impact or cyclic loading, or shear design of bending members at connections (NDS-2012, 3.4.3.3), the design shear (F_v) shall be multiplied by a factor of 0.72.

Table 4: Power Preserved Glulam® Sizes and Design Properties^{1,2}

EWS 24F-V5M1/SP Dry-Use $F_b=2,400$ psi $F_v=300$ psi $E=1.8 \times 10^6$ psi $F_{c\perp}=740$ psi

Width (in.)	Depth (in.)	Weight (lb/ft.) ¹	Moment of Inertia (in ⁴)	Maximum Resistive Moment (ft.-lbf)		Maximum Resistive Shear (lbf)	
				100%	115%	100%	115%
2 7/16" ³	9 1/4	10.8	227	9,804	11,275	6,359	7,313
	9 1/2	11.1	246	10,341	11,892	6,531	7,511
	11 1/4	13.1	408	14,502	16,677	7,734	8,895
	11 7/8	13.9	480	16,158	18,582	8,164	9,389
	14	16.3	786	22,458	25,827	9,625	11,069
3 1/2"	16	18.7	1173	29,333	33,733	11,000	12,650
	18	21.0	1671	37,125	42,694	12,375	14,231
	9 1/4	16.2	346	14,973	17,219	9,713	11,169
	9 1/2	16.6	375	15,794	18,163	9,975	11,471
5 1/4"	11 1/4	19.7	623	22,148	25,471	11,813	13,584
	11 7/8	20.8	733	24,678	28,379	12,469	14,339
	14	24.5	1201	34,300	39,445	14,700	16,905
	16	28.0	1792	44,800	51,520	16,800	19,320
	18	31.5	2552	56,700	65,205	18,900	21,735

¹Beam weight is assumed to be 48 pcf.

²Maximum resistive moment shall be adjusted by the volume factor based in NDS-2012, or see footnote #2 from Table 3.

³2 7/16" widths only available in 9 1/4", 11 1/4" and 14" depths. To determine 2 7/16" design properties, multiply .464 times the 5 1/4" weight, moment of inertia, moment and shear. See Anthony Forest website at www.anthonyforest.com to download complete 2 7/16" design properties table.

Treated Glulam Allowable Floor Loads (plf)

EWS 24F-V5M1/SP • Dry-Use • $F_b=2,400$ psi • $F_v=300$ psi • $E=1.8 \times 10^6$ psi • $F_{c,1}=740$ psi • (LDF=1.00)

Width (in)	Depth (in)	Load Condition	Span (feet)											
			6	8	10	12	14	16	18	20	22	24	26	
2 7/16" <i>(See Note 1)</i>	9 1/4	Total Load	2052	1226	756	437	275	185	130	94	71	55	43	
		Live Load	---	1181	605	350	220	148	104	76	57	44	34	
		Min. End/Int.Bearing (in.)	2.4/6.0	1.9/4.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
	9 1/2	Total Load	2108	1293	827	474	298	200	140	102	77	59	47	
		Live Load	---	1279	655	379	239	160	112	82	62	47	37	
		Min. End/Int.Bearing (in.)	2.5/6.3	2.0/5.0	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
	11 1/4	Total Load	2749	1813	1160	787	495	332	233	170	128	98	77	
		Live Load	---	---	1088	629	396	266	186	136	102	79	62	
		Min. End/Int.Bearing (in.)	3.2/8.0	2.9/7.3	2.3/5.8	1.9/4.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
	11 7/8	Total Load	2901	1918	1293	898	583	390	274	200	150	116	91	
		Live Load	---	---	1279	740	466	312	219	160	120	93	73	
		Min. End/Int.Bearing (in.)	3.4/8.5	3.0/7.5	2.5/6.3	2.1/5.3	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
3 1/2"	14	Total Load	3743	2401	1782	1248	917	702	449	328	246	190	149	
		Live Load	---	---	1784	1213	764	512	359	262	197	152	119	
		Min. End/Int.Bearing (in.)	4.4/11.0	3.8/9.5	3.5/8.8	2.9/7.3	2.5/6.3	2.2/5.5	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
	16	Total Load	4719	2926	2101	1615	1182	901	671	489	367	283	223	
		Live Load	---	---	---	---	1140	764	537	391	294	226	178	
		Min. End/Int.Bearing (in.)	5.6/14.0	4.6/11.5	4.1/10.3	3.8/9.5	3.3/8.3	2.8/7.0	2.4/6.0	1.9/4.8	1.6/4.0	1.5/3.8	1.5/3.8	
	18	Total Load	5917	3522	2485	2046	1499	1143	899	725	523	403	317	
		Live Load	---	---	---	---	---	1088	764	557	418	322	253	
		Min. End/Int.Bearing (in.)	7.0/17.5	5.5/13.8	4.9/2.3	4.8/12.0	4.1/10.3	3.6/9.0	3.2/8.0	2.8/7.0	2.3/5.8	1.9/4.8	1.6/4.0	
	5 1/4"	9 1/4	Total Load	3114	1861	1154	664	419	280	197	144	108	83	66
			Live Load	---	1803	923	534	337	225	158	115	87	67	53
			Min. End/Int.Bearing (in.)	2.4/6.0	1.9/4.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
9 1/2		Total Load	3199	1948	1264	719	453	303	214	156	117	90	71	
		Live Load	---	---	1000	579	365	244	172	125	94	72	57	
		Min. End/Int.Bearing (in.)	2.5/6.3	2.0/5.0	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
11 1/4		Total Load	4172	2752	1772	1195	753	504	354	260	195	150	118	
		Live Load	---	---	1661	961	605	406	285	208	156	120	95	
		Min. End/Int.Bearing (in.)	3.2/8.0	2.9/7.3	2.3/5.8	1.9/4.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
11 7/8		Total Load	4403	2910	1944	1344	885	593	419	305	229	177	139	
		Live Load	---	---	---	1131	712	477	335	244	183	141	111	
		Min. End/Int.Bearing (in.)	3.4/8.5	3.0/7.5	2.5/6.3	2.1/5.3	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	
14	Total Load	5679	3644	2707	1874	1371	1044	682	497	373	289	228		
	Live Load	---	---	---	1853	1167	782	549	400	301	232	182		
	Min. End/Int.Bearing (in.)	4.4/11.0	3.8/9.5	3.5/8.8	2.9/7.3	2.5/6.3	2.2/5.5	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8		
16	Total Load	7161	4440	3188	2451	1794	1400	1018	742	558	460	340		
	Live Load	---	---	---	---	1741	1167	819	597	449	346	272		
	Min. End/Int.Bearing (in.)	5.6/14.0	4.6/11.5	4.1/10.3	3.8/9.5	3.3/8.3	2.8/7.0	2.4/6.0	1.9/4.8	1.6/4.0	1.5/3.8	1.5/3.8		
18	Total Load	8979	5343	3770	3106	2274	1734	1365	1128	794	615	484		
	Live Load	---	---	---	---	---	1661	1167	851	639	492	387		
	Min. End/Int.Bearing (in.)	7.0/17.5	5.5/13.8	4.9/12.3	4.8/12.0	4.1/10.3	3.6/9.0	3.2/8.0	2.9/7.3	2.3/5.8	1.9/4.8	1.6/4.0		

- 2 7/16" Load Tables widths only available in 9 1/4", 11 1/4" and 14" depths. To determine 2 7/16" load capacity, multiply .464 times the 5 1/4" loads. The bearing stays the same. See Anthony Forest website at www.anthonyforest.com to download complete 2 7/16" load tables.
- Values shown are the maximum uniform loads (beam weight included) in pounds per lineal foot (PLF) that can be applied to the beam.
- These tables are for preliminary design when considering load and other conditions. The final design should include complete design analysis.

- Bearing lengths shown in third row of each cell are for maximum PLF loads for the two end bearings and for middle or intermediate bearings when beam is continuous. A shorter bearing may be used if proper analysis is done.
- Live load is based on the deflection criterion of L/360 and includes the beam weight (48 pct).
- Total load is based on the deflection criterion of L/240 and includes creep deflection with a LL/DL ratio of 4 or higher.

- For deflection limits of L/240 and L/480, multiply the live load figures by 1.5 and 0.75 respectively.
- The beam is assumed to be loaded on the top edge and with full lateral support at bearing points.
- Selected beam must satisfy both live and total load.
- Where no live load shows, live load is the same as total load.
- Call Anthony Forest for sizes not listed.

Treated Glulam Allowable Roof Snow Loads (plf)

EWS 24F-V5M1/SP • Dry-Use • $F_u=2,400$ psi • $F_v=300$ psi • $E=1.8 \times 10^6$ psi • $F_{c1}=740$ psi • (LDF=1.15)

Width (in)	Depth (in)	Load Condition	Span (feet)										
			6	8	10	12	14	16	18	20	22	24	26
2 7/16" <i>(See Note 1)</i>	9 1/4	Total Load	2364	1400	892	574	357	236	163	124	85	63	47
		Live Load	---	---	---	525	330	221	155	113	---	---	---
		Min. End/Int.Bearing (in.)	2.8/7.0	2.2/5.5	1.8/4.5	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
	9 1/2	Total Load	2428	1478	943	622	388	256	178	127	92	69	52
		Live Load	---	---	---	569	358	240	168	123	---	---	---
		Min. End/Int.Bearing (in.)	2.9/7.3	2.3/5.8	1.9/4.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
	11 1/4	Total Load	3165	2076	1324	916	651	432	300	216	159	121	91
		Live Load	---	---	---	---	595	398	280	204	153	118	---
		Min. End/Int.Bearing (in.)	3.7/9.3	3.3/8.3	2.6/6.5	2.2/5.5	1.8/4.5	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
	11 7/8	Total Load	3340	2313	1476	1021	747	509	354	255	189	151	110
		Live Load	---	---	---	---	699	468	329	240	180	139	109
		Min. End/Int.Bearing (in.)	3.9/9.8	3.6/9.0	2.9/7.3	2.4/6.0	2.1/5.3	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	2.0/5.0
14	Total Load	4309	2769	2054	1422	1041	794	586	424	315	239	194	
	Live Load	---	---	---	---	---	768	539	393	295	227	179	
	Min. End/Int.Bearing (in.)	5.1/12.8	4.4/11.0	4.0/10.0	3.4/8.5	2.9/7.3	2.5/6.3	2.1/5.3	1.7/7.3	1.5/3.8	1.5/3.8	1.5/3.8	
16	Total Load	5432	3372	2425	1860	1362	1039	818	637	474	362	281	
	Live Load	---	---	---	---	---	---	805	587	441	340	267	
	Min. End/Int.Bearing (in.)	6.4/16.0	5.3/13.3	4.8/12.0	4.4/11.0	3.7/9.3	3.3/8.3	2.9/7.3	2.5/6.3	2.1/5.3	1.7/7.3	1.5/3.8	
18	Total Load	6810	4057	2866	2356	1726	1317	1037	837	689	520	405	
	Live Load	---	---	---	---	---	---	---	835	628	483	380	
	Min. End/Int.Bearing (in.)	8.0/20.0	6.4/16.0	5.6/14.0	5.6/14.0	4.71/1.8	4.1/10.3	3.7/9.3	3.3/8.3	3.0/7.5	2.5/6.3	2.1/5.3	
5 1/4"	9 1/4	Total Load	3587	2125	1355	871	543	359	247	177	130	96	73
		Live Load	---	---	---	802	505	338	237	173	---	---	---
		Min. End/Int.Bearing (in.)	2.8	2.2	1.8/4.5	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
	9 1/2	Total Load	3684	2243	1430	989	604	405	270	193	142	106	80
		Live Load	---	---	---	868	547	366	257	188	141	---	---
		Min. End/Int.Bearing (in.)	2.9/7.3	2.3/5.8	1.9/4.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
	11 1/4	Total Load	4803	3166	2026	1407	1003	676	475	346	260	200	158
		Live Load	---	---	---	---	908	608	427	311	234	180	142
		Min. End/Int.Bearing (in.)	3.7/9.3	3.3/8.3	2.6/6.5	2.2/5.5	1.8/4.5	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8
	11 7/8	Total Load	5069	3509	2239	1549	1134	758	532	391	275	226	178
		Live Load	---	---	---	---	1068	715	502	366	---	212	167
		Min. End/Int.Bearing (in.)	3.9/9.8	3.6/9.0	2.9/7.3	2.4/6.0	2.1/5.3	1.6/4.0	1.5/3.8	1.5/3.8	1.5/3.8	1.5/3.8	1.5/5.0
	14	Total Load	6539	4201	3116	2158	1580	1205	910	663	501	386	304
		Live Load	---	---	---	---	---	1172	823	600	451	347	273
		Min. End/Int.Bearing (in.)	5.1/12.8	4.4/11.0	4.0/10.0	3.4/8.5	2.9/7.3	2.5/6.3	2.1/5.3	1.7/7.3	1.4/3.5	1.5/3.8	1.5/3.8
	16	Total Load	8241	5115	3680	2821	2067	1577	1241	989	744	576	453
		Live Load	---	---	---	---	---	---	1229	896	673	519	408
		Min. End/Int.Bearing (in.)	6.4/16.0	5.3/13.3	4.8/12.0	4.4/11.0	3.7/9.3	3.3/8.3	2.9/7.3	2.6/	2.1/5.3	1.8/4.5	1.5/3.8
	18	Total Load	10331	6155	4350	3575	2619	1999	1574	1270	1044	816	645
		Live Load	---	---	---	---	---	---	---	958	738	581	581
		Min. End/Int.Bearing (in.)	8.0/20.0	6.4/16.0	5.6/14.0	5.6/14.0	4.71/1.8	4.1/10.3	3.7/9.3	3.3/8.3	3.0/7.5	2.5/6.3	2.2/5.5

- 2 7/16" Load Tables widths only available in 9 1/4", 11 1/4" and 14" depths. To determine 2 7/16" load capacity, multiply .464 times the 5 1/4" loads. The bearing stays the same.
- Values shown are the maximum uniform loads (beam weight included) in pounds per lineal foot (PLF) that can be applied to the beam.
- These tables are for preliminary design when considering load and other conditions. The final design should include complete design analysis.
- Bearing lengths shown in third row of each cell are for

- maximum PLF loads for the two end bearings and for middle or intermediate bearings when beam is continuous. A shorter bearing may be used if proper analysis is done.
- Live load is based on the deflection criterion of span/240 and includes the beam weight (48 pcf)
- Total load is based on the deflection criterion of span/180 and includes creep deflection with a LL/DL ratio of 2 or higher.
- For live deflection limits of L/180 and L/360, multiply the live load values by 1.33 and 0.67

- respectively. The resulting live load shall not exceed the total load shown.
- The beam is assumed to be loaded on the top edge and with full lateral support at bearing points.
- Selected beam must satisfy both live and total load.
- Where no live load shows, live load is the same as total load.
- Call Anthony Forest for sizes not listed

POWER PRESERVED COLUMN®

POWER PRESERVED COLUMN®

Anthony Forest Products offers our popular Power Column® as a Power Preserved Column® for ground contact using Hoover Cop-Guard®. These columns are treated to the high retention level of 0.075 PCF, meeting AWPA use categories 4A, 4B, and 4C (should not be used in direct contact with water).

Suggested Uses: (Exterior Only)

- Deck support columns and board walks
- Residential and commercial exposed structural columns
- Raised coastal construction supports replacing piling
- Industrial and farming applications
- Pedestrian bridges and park shelters
- Pergolas



Margaritaville in Destin, Florida

Power Preserved Column® Design Values¹

Combination #50 #1 Dense SYP	F _b x-x axis	F _b y-y axis		MOE	Compression Parallel to Grain F _{c1} =	
	F _b	3 laminations	4 or more laminations		3 laminations	4 or more laminations
Design Value	2,100 psi	2,100	2,300	1.9 x 10 ⁶	1,700	2,300
Wet-Use Factor	0.8	0.8	0.8	0.833	0.53	0.73

¹ The tabulated values are for moisture content of less than 16%. Apply wet-use adjustment factors for columns in direct contact with the ground. Use of column bases or standoff may allow for dry-use.

POWER PRESERVED COLUMN® SIZES

WIDTH	THICKNESS
3 1/2"	3 1/2", 5 1/2"
5 1/4"	5 1/2", 6 7/8"
6 3/4"	6 7/8"
8 3/4"	8 1/4"
10 3/4"	10 3/4"



Mason Pergola. Power Preserved Glulam® Beams and Columns

DESIGN, INSTALLATION AND CONNECTION NOTES:

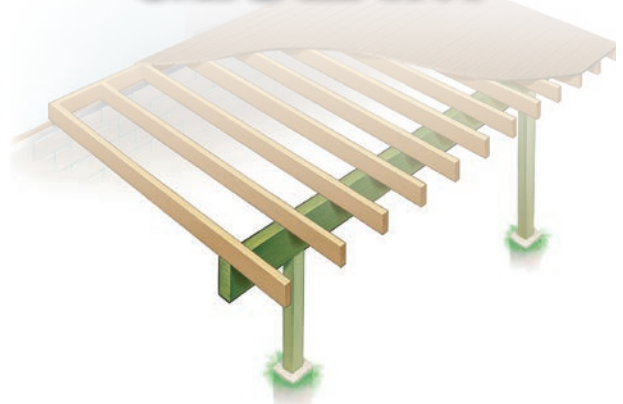
BEAMS AND COLUMNS

- Allowable axial loading for all Power Preserved Column® sizes can be found on our website.
- Anthony recommends all columns to be placed on column base/blocks and/or embedded in concrete.
- Should not be used in direct contact with water
- Installation, staining, painting and connection details can be found at www.anthonyforest.com. Recommended connections must meet all local code requirements.
- Standard non-corrosion resistant fasteners can be used unless connections are made to other water-borne copper treated wood or in the severe deterioration zones (local building codes supersede).
- All Anthony column tables are for preliminary design use only. Final design should include a complete engineering analysis, including bearing capacity of the foundation supporting the column.
- Power Preserved Glulam® Beams and Columns shall not come in direct contact with bituminous materials such as deck protective wrap, asphalt or tar/felt paper.
- For 2 ply connection details for 2 7/16" and 3 1/2" PPG beams go to www.anthonyforest.com.



Power Preserved Glulam® solar panel array

DECK READY, POWER PRESERVED GLULAM®



Call Anthony Forest for Deck Guide

SOFTWARE AND TECHNICAL SUPPORT

Power Preserved Glulam® Beams and Columns can be sized for loading and spans using our free Power Sizer® software downloadable from our website or from the load tables on pages 5 and 6. For sizes not shown in this brochure, use our Power Sizer® software or 24F glulam brochure. For Power Preserved Column® sizing, please use our column flyer

or axial load tables, or go to our website for sizing software download.

SERVICE

If you need technical assistance, a skilled member of the Anthony EWP Team can be reached at **800.221.2326**, **870-862-3414** or at **info@anthonyforest.com**. www.anthonyforest.com



Austin, Texas Deck



DISTRIBUTED BY:

Power Beam® ▲ Power Column® ▲ SYP Lumber ▲ Power Joist® ▲ PRG®
309 N. Washington ▲ El Dorado, AR 71730 ▲ 800-221-2326 ▲ www.anthonyforest.com

©Anthony Forest Products Company - 08/2013



Anthony Forest
Span Calculator



Follow Us On
Facebook!



Anthony Forest
Products Website