

# The GPB Nail-Lam Column

by



***The One-Stop shop for all things Post Frame introduces another reason to Stop and Shop Graber Post Buildings Inc.***

- Straighter, stronger and lighter than solid sawn post
- Won't split, warp or twist allowing for easier framing and finishing
- Saves you time and money in the field by reducing labor cost and callbacks
- 3 ply, 4 ply and 5 ply 2x6 and 2x8 columns available up to 40' feet
- Column design and engineering available from Timber Tech Engineering, Inc.
- Stocking Programs available!!
- Post Protectors can be installed for a minimal fee to save you time and money



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Graber Post Buildings Inc.

# “GPB Nail-Lam Columns”

Graber Post Buildings Inc. has been known for over 30 years as a producer and supplier of quality building products to the Post Frame industry. We pride ourselves in being a One-Stop shop for all things post frame, and we are pleased to offer the **GPB Nail Lam column** to our offering of quality products. Only the best raw materials are used in our columns and we start with **#1 Southern Pine** lumber for both treated and untreated portions of the column. The bottom treated part of the column is protected against rot, decay and insect damage (.60 CCA). Our column has a #1 SPIB certified finger joint and our program is inspected and overseen by an engineering firm to ensure that our columns meet the high standards our customers expect. GPB Nail Lam Columns will save you time and money on your next project. Call us today!

## Why Buy a GPB Nail-Lam Column?

- Graber Post Buildings Inc. is a recognized leader in the Post Frame industry, a one-stop shop for all things Post Frame.
- Our columns reduce labor cost and eliminate call backs because they are stronger, straighter and lighter than solid post.
- Our columns won't split, warp or twist, allowing for easier framing and finishing.
- The upper 18"-24" of each column contains no fasteners or adhesive allowing individual plies to be notched in the field for a superior truss connection.
- Eliminates the need to have hot dipped galvanized nails on the untreated upper portion of the columns.
- The plies are glued, nailed and planed on all sides giving you a uniform product to frame with.
- All Structural finger joints are produced under SPIB Glue Lumber Standards and carry a #1 certification from the Southern Pine Inspection Bureau, a nationally recognized third party inspection agency.
- Column design and sizing available from Timber Tech Engineering, Inc.
- Stocking programs available.

**Table 1: 3 Ply 2x6 GPB Laminated Column Design Values**

Wet Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1650	1.00	0.85	1.00	1.00	-	1.35	F <sub>b</sub> *	1893 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1750	1.00	0.80	1.00	1.00	-	-	F <sub>c</sub> *	1400 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	0.90	1.00	-	-	-	E'	1.53E+06
E <sub>min</sub>	6.2E+05	-	0.90	1.00	-	-	-	E <sub>min</sub> '	5.58E+05

  

Dry Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1650	1.00	1.00	1.00	1.00	-	1.35	F <sub>b</sub> *	2228 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1750	1.00	1.00	1.00	1.00	-	-	F <sub>c</sub> *	1750 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	1.00	1.00	-	-	-	E'	1.70E+06
E <sub>min</sub>	6.2E+05	-	1.00	1.00	-	-	-	E <sub>min</sub> '	6.20E+05

F<sub>b</sub>\* = Reference bending design value multiplied by all applicable adjustment factors except C  
 F<sub>c</sub>\* = Reference compression design value multiplied by all applicable adjustment factors except C  
 C<sub>D</sub> = 1.00 Long Term Loading (Floor); 1.15 Snow Loading; 1.6 Wind & Seismic Loading

**Table 2: 4 & 5 Ply 2x6 GPB Laminated Column Design Values**

Wet Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1650	1.00	0.85	1.00	1.00	-	1.35	F <sub>b</sub> *	1893 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1750	1.00	0.80	1.00	1.00	-	-	F <sub>c</sub> *	1400 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	0.90	1.00	-	-	-	E'	1.53E+06
E <sub>min</sub>	6.2E+05	-	0.90	1.00	-	-	-	E <sub>min</sub> '	5.58E+05

  

Dry Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1650	1.00	1.00	1.00	1.00	-	1.35	F <sub>b</sub> *	2228 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1750	1.00	1.00	1.00	1.00	-	-	F <sub>c</sub> *	1750 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	1.00	1.00	-	-	-	E'	1.70E+06
E <sub>min</sub>	6.2E+05	-	1.00	1.00	-	-	-	E <sub>min</sub> '	6.20E+05

F<sub>b</sub>\* = Reference bending design value multiplied by all applicable adjustment factors except C  
 F<sub>c</sub>\* = Reference compression design value multiplied by all applicable adjustment factors except C  
 C<sub>D</sub> = 1.00 Long Term Loading (Floor); 1.15 Snow Loading; 1.6 Wind & Seismic Loading

**Table 3: 3 Ply 2x8 GPB Laminated Column Design Values**

Wet Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1500	1.00	0.85	1.00	1.10	-	1.35	F <sub>b</sub> *	1893 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1650	1.00	0.80	1.00	1.00	-	-	F <sub>c</sub> *	1320 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	0.90	1.00	-	-	-	E'	1.53E+06
E <sub>min</sub>	6.2E+05	-	0.90	1.00	-	-	-	E <sub>min</sub> '	5.58E+05

  

Dry Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1500	1.00	1.00	1.00	1.10	-	1.40	F <sub>b</sub> *	2228 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1650	1.00	1.00	1.00	1.00	-	-	F <sub>c</sub> *	1650 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	1.00	1.00	-	-	-	E'	1.70E+06
E <sub>min</sub>	6.2E+05	-	1.00	1.00	-	-	-	E <sub>min</sub> '	6.20E+05

F<sub>b</sub>\* = Reference bending design value multiplied by all applicable adjustment factors except C  
 F<sub>c</sub>\* = Reference compression design value multiplied by all applicable adjustment factors except C  
 C<sub>D</sub> = 1.00 Long Term Loading (Floor); 1.15 Snow Loading; 1.6 Wind & Seismic Loading

**Table 4: 4 & 5 Ply 2x8 GPB Laminated Column Design Values**

Wet Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1500	1.00	0.85	1.00	1.10	-	1.40	F <sub>b</sub> *	1964 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1650	1.00	0.80	1.00	1.00	-	-	F <sub>c</sub> *	1320 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	0.90	1.00	-	-	-	E'	1.53E+06
E <sub>min</sub>	6.2E+05	-	0.90	1.00	-	-	-	E <sub>min</sub> '	5.58E+05

  

Dry Region									
Tabulated Design Values (#1 SYP - NDS Table 4B)								Adjusted Design Values	
	Ref.	C <sub>D</sub>	C <sub>m</sub>	C <sub>t</sub>	C <sub>F</sub>	C <sub>fu</sub>	C <sub>r</sub>	(psi)	
F <sub>b</sub>	1500	1.00	1.00	1.00	1.10	-	1.40	F <sub>b</sub> *	2310 (x C <sub>D</sub> x C <sub>t</sub> )
F <sub>c</sub>	1650	1.00	1.00	1.00	1.00	-	-	F <sub>c</sub> *	1650 (x C <sub>D</sub> x C <sub>F</sub> )
E	1.7E+06	-	1.00	1.00	-	-	-	E'	1.70E+06
E <sub>min</sub>	6.2E+05	-	1.00	1.00	-	-	-	E <sub>min</sub> '	6.20E+05

F<sub>b</sub>\* = Reference bending design value multiplied by all applicable adjustment factors except C  
 F<sub>c</sub>\* = Reference compression design value multiplied by all applicable adjustment factors except C  
 C<sub>D</sub> = 1.00 Long Term Loading (Floor); 1.15 Snow Loading; 1.6 Wind & Seismic Loading

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