Power Preserved Column[TM] & PSL Comparison Tables
Allowable Axial Loads (lbs)
1/1/2009

Effective Column Length (ft)	Size	3 1/2" x 3 1/2"			3 1/2" x 5 1/2"	
		100%	100%		100%	100%
		PPC	**PSL**		**PPC**	**PSL**[1]
6		7,210	7,056		13,160	10,580
8		5,330	5,035		9,200	7,550
10		3,930	3,658		6,630	4,125
12		2,990	2,753		4,970	3,205
14		2,340	2,139		3,850	3,205

Effective Column Length (ft)	Size	5 1/4" x 5 1/2"			6 3/4" x 6 7/8"	
		PPC	**PSL**[2]		**PPC**	**PSL**[3]
6		24,500	20,330			
8		20,650	17,285		38,360	35,685
10		16,660	14,005		33,440	31,785
12		13,330	11,185		28,340	27,470
14		10,790	9,020		23,770	23,300
16		8,860	7,385		20,000	19,705
18		7,380	6,140		16,970	16,760
20		6,210	5,175		14,540	14,375

Notes

1. Womanized® Parallam® PSL design and technical information can be found in the TJ-7102 Specifier's Guide.
   The PSL columns are assumed to be used in Service Level 2 or 3 conditions. Allowable design for columns
   are: MOE = 1.314 x 10^6, F_b = 1,512 psi, and $F_{c\perp}$= 1,300 psi. PSL columns footnotes will indicate actual PSL sizes.
   [1]3 1/2" x 5 1/4"; [2]5 1/4" x 5 1/4" and [3]7" x 7".

2. Applicable service conditions = wet for PPC and applicable values in note 5.

3. The tabulated allowable loads are based on simply axially loaded columns subjected to a maximum eccentricity
   of either 1/6 column width or 1/6 column depth, whichever is worse.
   For side loads, other eccentric end loads, or other combined axial and flexural loads, see 2005 NDS

4. The column is assumed to be unbraced, except at the column ends, and the effective column length is equal to the
   actual column length.

5. Design properties for normal load duration and wet-use service conditions for PPC:
   Compression parallel to grain (F_c) = 0.73 x 2,300 psi for 4 or more lams, or 0.73 x 1,700 psi for 2 or 3 lams.
   modulus of elasticity (E) = 0.833 x 1.9 x 10^6 psi.
   Flexural stress when loaded parallel to wide faces of lamination (F_{by}) = 0.8 x 2,300 psi for 4 or more lams,
   or 0.8 x 2,100 psi for 3 lams.
   Flexural stress when loaded perpendicular to wide faces of lamination (F_{bx}) = 0.8 x 2,100 psi for 2 lams to 15 in.
   deep without special tension laminations.
   Volume factor for F_{bx} is in accordance with 2005 NDS. Size factor for Fby is $(12/d)^{1/9}$, where d is equal to the
   lamination width in inches.

6. Cosult hanger manufacturers literature for proper column caps and bases.

7. For loading and other conditions outside the scope of this table, contact your local retail yard or AFP sales person.