

GLUE LAMINATED COLUMN SPECIFICATION SHEET

Section Properties

COLUMN	DIMENSIONS	Area (in ²)	X Axis Section Modulus (in ³)	X Axis Moment of Inertia (in ⁴)
3-ply 2x6	4.13" x 5.38"	22.2	19.9	53.4
4-ply 2x6	5.50" x 5.38"	29.6	26.5	71.2
5-ply 2x6	6.88" x 5.38"	37.0	33.1	89.0
3-ply 2x8	4.13" x 7.13"	29.4	34.9	124.3
4-ply 2x8	5.50" x 7.13"	39.2	46.5	165.8
5-ply 2x8	6.88" x 7.13"	49.0	58.2	207.2

Column Design Values

F_c, F_b and F_v Design Values in psi from NDS Tables 5B

Members	Species and Grade	Bending F _{by}	Compression	Modulus	Shear
			Parallel to Grain F _c	of Elasticity E	Parallel to Grain F _v
3ply 2x6 Titan Timber	Combo 49	1750	1,450	1,700,000	260
4ply 2x6 Titan Timber	Combo 49	1850	1,700	1,700,000	260
3ply 2x8 Titan Timber	Combo 49	1750	1,450	1,700,000	260
4ply or Greater 2x8 Titan Timber	Combo 49	1850	1,700	1,700,000	260

Higher strength lumber may be substituted to fit design requirements

Notes:

- For Allowable Stress Design, the Load Duration Factor (C_D) increase can be applied to the Design Values for bending (F_b), shear (F_v), and parallel compression (F_c). Load Duration Factor when Wind or Seismic loads are included is 60% (C_D = 1.6) and when Snow is included but not Wind nor Seismic, adjustment is 15% (C_D = 1.15).
- Notations:
 - All Glue Lam Combinations per NDS Table 5B Published values for Combo 49 1:10
 - Timber Technologies is third party inspected by American Institute of Timber Construction
 - NDS – National Design Specification for Wood Construction, 2018 Edition. This is an ANSI standard adopted as part of most building codes, including the International Building Code.
 - SYP- Southern Yellow Pine
- Other adjustments and design considerations may apply to the column, depending on the application. A competent design professional should verify the accuracy, suitability, and applicability of the column design considerations before using the column design values for any general or specific application.

For technical assistance or member sizing call 715-962-4242 or fax 715-962-4193.