



TIMBER TECHNOLOGIES L.L.C.

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Member	Column Design Value Comparisons									Allowable Moment (ft*#)
	width	depth	Fb (psi)	Fc(psi)	E	Cf	Cr	Sx(in3)	Area(in2)	
3ply 2x6 Titan Timber Glue Lam	4.125	5.375	1900	1700	1.5	1.0	1.15	19.9	22.2	3617
4ply 2x6 Titan Timber Glue Lam	5.500	5.375	2000	1700	1.5	1.0	1.15	26.5	29.6	5077
3ply 2x8 Titan Timber Glue Lam	4.125	7.000	2100	1700	1.5	1.0	1.15	33.7	28.9	6780
4ply 2x8 Titan Timber Glue Lam	5.500	7.000	2300	1700	1.5	1.0	1.15	44.9	38.5	9900
6x6 #2 Hem Fir solid	5.500	5.500	575	405	1.1	1.0	1.00	27.7	30.3	1329
6x8 #2 Hem Fir solid	5.500	7.500	575	405	1.1	1.0	1.00	51.6	41.3	2471
6x10 #2 Hem Fir solid	5.500	9.500	575	405	1.1	1.0	1.00	82.7	52.3	3964
3ply 2x6 #1 SYP OTP Nailed	4.310	5.310	1555	1150	1.6	1.0	1.15	20.3	22.9	3018
4ply 2x6 #1 SYP OTP Nailed	5.750	5.310	1555	1150	1.6	1.0	1.15	27.0	30.5	4027
3ply 2x8 #1 SYP OTP Nailed	4.310	7.190	1440	1150	1.6	1.0	1.15	37.1	31.0	5125
4ply 2x8 #1 SYP OTP Nailed	5.750	7.190	1440	1150	1.6	1.0	1.15	49.5	41.3	6837

(SYP - Southern Yellow Pine)

Titan Timber are trademarks of Timber Technologies L.L.C.

All 2x6 Titan Timber design values are based on APA report T2010P-51 and in accordance with ASTM D4761 -Standard Test Methods

All 2x8 Titan Timber design values are based on Combo 50 per National Design Specifications for Wood Construction 2005

All competitor design values are reported per manufacturer or derived from "2005 NDS for Wood Construction".

Analysis assumes all 3ply laminated glued and nailed columns are braced laterally with girts.

Conclusions from Design Chart

3ply 2x6 Titan Timbers are 272.16% stronger than 6x6 Hem Fir #2 and 119.85% stronger than OTP 3ply 2x6 nailed

4ply 2x6 Titan Timbers are 205.46% stronger than 6x8 Hem Fir #2 and 126.07% stronger than OTP 4ply 2x6 nailed

3ply 2x8 Titan Timbers are 132.29% stronger than OTP 3ply 2x8 nailed

3ply 2x8 Titan Timbers are 274.38% stronger than 6x8 171.04% stronger than 6x10 Hem Fir #2

4ply 2x8 Titan Timbers are 249.75% stronger than 6x10 Hem Fir #2 and 144.80% stronger than OTP 4ply 2x8 nailed

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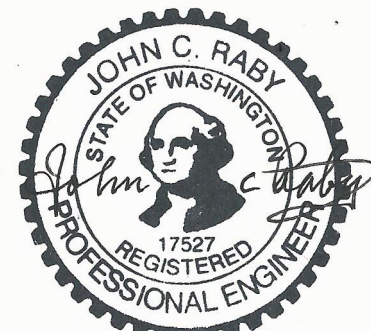
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FOR COMPARISON REFERENCE ONLY!

This document is not to be used for construction purposes.

This document does not purport to suffice for design or analysis to be considered by engineer of record for specific structures.

For technical questions or assistance contact Dale at Timber Technologies L.L.C. 715-962-4242



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