SPAN TABLE FOR NAIL-LAMINATED COLUMNS MANUFACTURED BY WB COMPONENTS

3-PLY 2x6	MAXIMUM TRUSS SPAN															
	ROOF LOAD															
	25 PSF SNOW + 10 PSF DL				30 PSF SNOW + 10 PSF DL				35 PSF SNOW + 10 PSF DL				40 PSF SNOW + 10 PSF DL			
	SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT			
COLUMN SPACING	12 FT	14 FT	16 FT	18 FT	12 FT	14 FT	16 FT	18 FT	12 FT	14 FT	16 FT	18 FT	12 FT	14 FT	16 FT	18 FT
4'-0" OC	100	100	80	50	100	100	70	45	100	100	60	40	100	90	55	35
6'-0" OC	95	55	35	-	90	50	30	-	85	45	25	-	75	40	25	-
8'-0" OC	65	30	-	-	55	25	-	-	50	-	-	-	45	-	-	-
10'-0" OC	40	-	-	-	35	-	-	-	30	-	-	-	25	-	-	-

4-PLY 2x6	MAXIMUM TRUSS SPAN															
	ROOF LOAD															
	25 PSF SNOW + 10 PSF DL				30 PSF SNOW + 10 PSF DL				35 PSF SNOW + 10 PSF DL				40 PSF SNOW + 10 PSF DL			
	SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT			
COLUMN SPACING	12 FT	14 FT	16 FT	18 FT	12 FT	14 FT	16 FT	18 FT	12 FT	14 FT	16 FT	18 FT	12 FT	14 FT	16 FT	18 FT
4'-0" OC	100	100	100	90	100	100	100	80	100	100	100	75	100	100	100	65
6'-0" OC	100	95	70	45	100	90	60	40	100	80	55	35	100	75	50	30
8'-0" OC	100	65	35	-	95	60	30	-	90	50	30	-	80	45	25	-
10'-0" OC	75	40	-	-	65	35	-	-	60	30	-	-	55	25	-	-

3-PLY 2x8	MAXIMUM TRUSS SPAN															
	ROOF LOAD															
	25 PSF SNOW + 10 PSF DL				30 PSF SNOW + 10 PSF DL				35 PSF SNOW + 10 PSF DL				40 PSF SNOW + 10 PSF DL			
	SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT			
COLUMN SPACING	14 FT	16 FT	18 FT	20 FT	14 FT	16 FT	18 FT	20 FT	14 FT	16 FT	18 FT	20 FT	14 FT	16 FT	18 FT	20 FT
4'-0" OC	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6'-0" OC	100	100	100	60	100	100	90	50	100	100	80	45	100	100	70	40
8'-0" OC	100	90	50	-	100	80	45	-	100	70	40	-	95	60	35	-
10'-0" OC	90	50	-	-	80	45	-	-	70	40	-	-	60	35	-	-

4-PLY 2x8	MAXIMUM TRUSS SPAN															
	ROOF LOAD															
	25 PSF SNOW + 10 PSF DL				30 PSF SNOW + 10 PSF DL				35 PSF SNOW + 10 PSF DL				40 PSF SNOW + 10 PSF DL			
	SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT				SIDEWALL HEIGHT			
COLUMN SPACING	16 FT	18 FT	20 FT	22 FT	16 FT	18 FT	20 FT	22 FT	16 FT	18 FT	20 FT	22 FT	16 FT	18 FT	20 FT	22 FT
4'-0" OC	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
6'-0" OC	100	100	100	80	100	100	100	70	100	100	95	60	100	100	85	50
8'-0" OC	100	100	70	40	100	90	60	35	100	80	50	30	100	70	45	25
10'-0" OC	95	70	35	-	85	60	30	-	75	55	30	-	70	45	25	-

NOTES:

1. MAXIMUM WIND SPEED: 90 MPH, EXPOSURE C (PER ASCE 7-05).
2. MAXIMUM WALL GIRT SPACING = 36"
3. OCCUPANCY CATEGORY I (AGRICULTURAL AND MINOR STORAGE FACILITIES).
4. STRUCTURE IS ASSUMED TO BE UNHEATED AND ENCLOSED.
5. EXTERIOR WALLS ARE ASSUMED TO HAVE FLEXIBLE FINISHES.
6. COLUMNS ARE EMBEDDED 4'-0" MIN BELOW GRADE.
7. THIS TABLE ASSUMES THAT THE STRUCTURE HAS A RIGID DIAPHRAGM AND LATERAL WIND RESISTING SYSTEM.
8. TRUSS SPANS DO NOT INCLUDE THE OVERHANG. TRUSS SPANS NOTED IN TABLE ARE TO BE DECREASED BY 2 x OVERHANG LENGTH.

NOTES CONT:

9. ASSUMES ADEQUATE SOIL PROPERTIES TO RESIST VERTICAL AND HORIZONTAL LOADS.
10. THIS TABLE IS FOR PRELIMINARY USE ONLY. A COMPLETE BUILDING ANALYSIS IS TO BE COMPLETED BY A DESIGN PROFESSIONAL FOR EACH INDIVIDUAL STRUCTURE.
11. LATERTAL LOADS ARE APPLIED TO THE STRONG AXIS ONLY.
12. DESIGN IS BASED ON THE 2005 NDS (ASD), ASAE EP 559.1 AUG2010 AND ASCE 7-05.
13. COLUMNS ARE CONSTRUCTED WITH TREATED SYP NO. 1 GRADE BELOW GRADE AND SYP MSR 1650f-1.8E ABOVE GRADE.

PREPARED BY:

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