POWER PRESERVED GLULAM™ DESIGN PROPERTIES

WIDTH	DEPTH	Wt [lb/ft]	S [in³]	I [in⁴]	Maximum Resistive Moment [ft-#]		Maximum Resistive Shear [lb.]	
					100%	115%	100%	115%
2-7/16"	9-1/4"	6.5	34.7	161	6951	7994	4509	5185
	11-1/4"	8	51.4	289	10,283	11,825	5484	6307
	14"	9.9	79.6	557	15,925	18,313	6825	7848

AFP PPG TREATED GLULAM ALLOWABLE UNIFORM FLOOR LOAD [PLF]

EWS 24F-V5M1/SP • Dry Use • F_b = 2400 psi • E = 1.8 x 10⁶ psi • $F_{c\perp}$ = 740 psi • (LDF= 1.0)

WIDTH	DEPTH	Load Condition	SPAN [feet]								
			6	8	10	12	14	16	18	20	22
2-7/16"	9-1/4"	Total Load	1445	864	535	308	194	129	91	66	50
		Live Load	1445	837	429	248	156	104	73	53	40
		Min End/Int. Bearing [in.]	2.4/6.0	1.9/4.8	1.5/3.7	1.5/3.0	1.5/3.0	1.5/3.0	1.5/3.0	1.5/3.0	1.5/3.0
	11-1/4"	Total Load	1936	1277	822	554	349	233	164	120	90
		Live Load	1936	1277	771	446	280	188	132	96	72
		Min End/Int. Bearing [in.]	3.2/8.0	2.9/7.1	2.3/5.7	1.9/4.6	1.5/3.4	1.5/3.0	1.5/3.0	1.5/3.0	1.5/3.0
	14"	Total Load	2636	1691	1256	870	636	484	316	230	173
		Live Load	2636	1691	1256	860	541	363	254	185	139
		Min End/Int. Bearing [in.]	4.4/11	3.8/9.4	3.5/8.7	2.9/7.3	2.5/6.2	2.2/5.4	1.6/4.0	1.5/3.2	1.5/3.0

NOTES:

1. Values shown are the maximum allowable uniform loads (beam weight included) in pounds per linear feet (PLF).

2. This table is for preliminary design when considering load and other conditions. The final design should include complete design analysis.

3. Bearing lengths shown in third row of each cell are for maximum plf loading for end bearing and intermediate bearing for multiple span condition.
   Shorter bearing length is possible with further analysis. Bearing length based on bearing area of beam & not the supporting member.

4. Live load PLF is based on a LL deflection limit of l/360.

5. Total load PLF is based on a TL deflection limit l/240 and includes creep deflection with a LL/DL ratio of 4 or higher.

6. For deflection limits of l/240 and l/480 multiply the LL PLF by 1.5 and .75 respectively.

7. Beam is assumed to be loaded on the top edge and full lateral support at bearings is provided.

8. Selected beam must satisfy both live and total load capacities.   4/12