

CHRISTIE LITES

ALLOWABLE LOAD DATA

CHRISTIE LITES 24" TYPE G TRUSS - FORKED END TRUSS

CHRISTIE LITES TYPE G TRUSS 24"x24" SPIGOTED TRUSS TABLE (Repetitive Use)										
TRUSS SPAN	UNIFORMLY DISTRIBUTED LOAD		CENTER POINT LOAD		THIRD POINT LOAD		QUARTER POINT LOAD		FIFTH POINT LOAD	
	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION	LOAD	DEFLECTION
8'-0"	1,021 lb/ft	0.018 in	8,165 lbs	0.029 in	4,083 lbs	0.025 in	2,722 lbs	0.023 in	2,041 lbs	0.022 in
16'-0"	504 lb/ft	0.146 in	7,464 lbs	0.216 in	4,029 lbs	0.200 in	2,686 lbs	0.186 in	2,015 lbs	0.176 in
24'-0"	331 lb/ft	0.495 in	4,887 lbs	0.490 in	3,666 lbs	0.624 in	2,444 lbs	0.580 in	1,988 lbs	0.594 in
32'-0"	223 lb/ft	1.076 in	3,573 lbs	0.882 in	2,679 lbs	1.113 in	1,786 lbs	1.036 in	1,489 lbs	1.084 in
40'-0"	138 lb/ft	1.691 in	2,762 lbs	1.397 in	2,072 lbs	1.747 in	1,381 lbs	1.630 in	1,151 lbs	1.703 in
48'-0"	92 lb/ft	2.451 in	2,205 lbs	2.046 in	1,653 lbs	2.528 in	1,102 lbs	2.368 in	919 lbs	2.468 in
56'-0"	64 lb/ft	3.363 in	1,791 lbs	2.840 in	1,343 lbs	3.462 in	896 lbs	3.255 in	746 lbs	3.384 in
64'-0"	44 lb/ft	4.274 in	1,468 lbs	3.792 in	1,003 lbs	4.250 in	726 lbs	4.267 in	576 lbs	4.266 in

TABLE USAGE NOTES:

1. THE TRUSS IS SUPPORTING VERTICAL LOADS ONLY, I.E. THE TRUSS LADDERS ARE ORIENTED VERTICALLY AND NO LATERAL LOADS ARE APPLIED TO THE TRUSS.
2. THE TRUSS WAS ANALYZED AS A SIMPLE SPAN BEAM WITH SUPPORTS AT TRUSS ENDS ONLY.
3. THE TRUSS HAS BEEN ANALYZED FOR STATIC LOADS ONLY.
4. ALL LOADS ARE APPLIED CENTERED BETWEEN THE LADDERS.
5. ALL LOADS AND SUPPORTS ARE TO BE LOCATED AT THE PANEL POINTS OF THE TRUSS ONLY.
6. SELF WEIGHT HAS BEEN CONSIDERED IN THE ANALYSIS OF THE TRUSS.
7. MAXIMUM DEFLECTION LIMITED TO SPAN/180.
8. ALLOWABLE LOADS BASED ON 2020 ALUMINUM DESIGN MANUAL. ALL CAPACITIES ARE REDUCED TO 0.85 PER ANSI E1.2-2012 FOR REPETITIVE USE MEMBERS