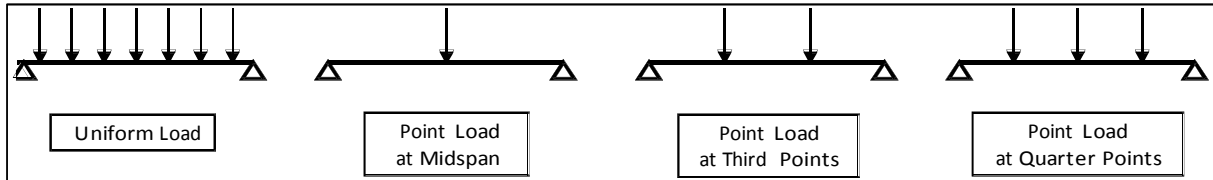


CHRISTIE LITES

ALLOWABLE LOAD DATA CHRISTIE LITES "SWING WING" TYPE D TRUSS



Number of Sections	Span ¹ (ft)	Uniform Load ^{2, 3, 4}		Maximum Allowable Point Loads ^{5, 6}						
		Load (plf)	Total Load (lbs)	Deflection (in)	Center Point		Third Point		Quarter Point	
					Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)	Load (lbs)	Deflection (in)
1	10	705	7050	0.2"	4500	0.2"	2 x 2750	0.3"	3 x 1800	0.3"
2	20	315	6300	0.4"	2900	0.4"	2 x 2250	0.5"	3 x 1500	0.4"
3	30	160	4800	0.75"	2800	0.8"	2 x 1450	0.6"	3 x 1200	0.75"
4	40	80	3200	1.0"	1450	1.0"	2 x 1200	1.0"	3 x 725	1.0"
5	50	50	2500	1.5"	1375	1.5"	2 x 900	1.5"	3 x 600	1.5"

FOOTNOTES

- 1) Span indicates distance between truss support
- 2) Maximum uniformly distributed load that may be supported by a single horizontal 2" pipe in rack is 170 plf
- 3) Uniform load (up to 510 plf) shall be distributed across three horizontal pipes in pipe rack
- 4) Uniformly distributed loads greater than 510 plf shall be equally distributed between pipe racks and truss bottom chords (5 horizontal pipes at bottom of truss).
- 5) For point loads at intervals not indicated, use equivalent uniform load to determine capacity
- 6) Point loads shall be hung from truss panel points aligning with vertical web member
- 7) Capacity of additional support structures, components or connections are outside the scope of this analysis

Data table from "Christie Lites Swing Wing Truss Analysis" -AHBL Engineering, Tacoma Washington

Full report is available by request