

## 8ft Stick Allowable Load Tables

### Tyler Truss

### 12"x12" Custom Spigot Truss (Horizontal Spigot)

Table 1: 12" x 12" Custom Spigot Truss Load Capacity Table (Single Use)								
Span (ft)	Uniformly Distributed Load		Center Point Load		3rd Point Load		Quarter Point Load	
	Load (plf)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)
8'-0"	1050	0.089	7950	0.136	4200	0.123	2800	0.114
16'-0"	490	0.673	3900	0.546	2950	0.698	1950	0.647
24'-0"	210	1.515	2500	1.235	1900	1.568	1250	1.457
32'-0"	89	2.137	1750	2.133	1020	2.123	725	2.133

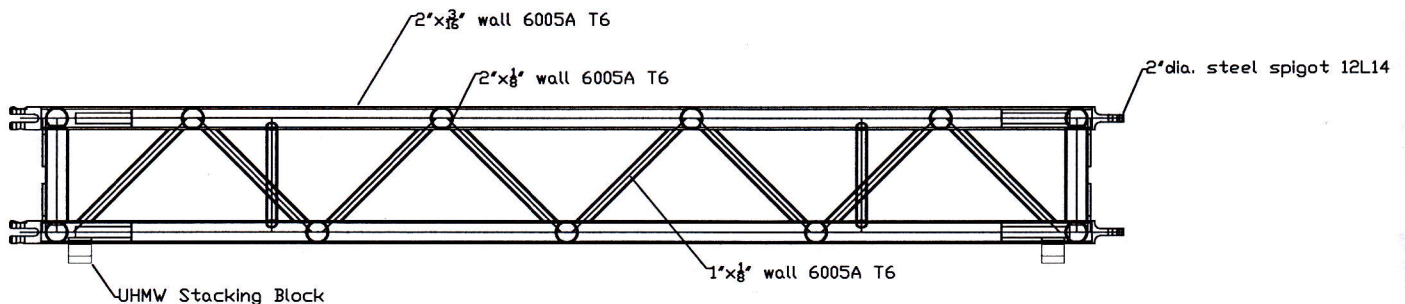
**Table Usage Notes:**

- 1) The truss is supporting vertical loads only, i.e. the truss diagonals are oriented vertically and no lateral loads are applied to the truss
- 2) The truss is analyzed as a simple span beam. Truss support points are located at truss panel points
- 3) The truss will be analyzed for static loads only
- 4) All loads are applied at the centroid of the truss between the two ladder trusses below the truss
- 5) All loads are applied at the panel points of the truss as to not induce local bending stresses in the chords
- 6) Selfweight has been considered
- 7) Maximum deflection based on span/180
- 8) 2ft, 4ft, 5ft, 6ft, 8ft and 10ft sticks of truss have the same allowable capacities. The allowable loads shown in the table above applies to any configuration of the 12x12 custom spigot truss for the spans shown.

Table 2: 12" x 12" Custom Spigot Truss Load Capacity Table (Repetitive Use)								
Span (ft)	Uniformly Distributed Load		Center Point Load		3rd Point Load		Quarter Point Load	
	Load (plf)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)	Load (lbs)	Defl (in)
8'-0"	893	0.08	6758	0.12	3570	0.10	2380	0.10
16'-0"	417	0.57	3315	0.46	2508	0.59	1658	0.55
24'-0"	179	1.29	2125	1.05	1615	1.33	1063	1.24
32'-0"	76	1.82	1488	1.81	867	1.80	616	1.81

**Table Usage Notes:**

- 1) The truss is supporting vertical loads only, i.e. the truss diagonals are oriented vertically and no lateral loads are applied to the truss
- 2) The truss is analyzed as a simple span beam. Truss support points are located at truss panel points
- 3) The truss will be analyzed for static loads only
- 4) All loads are applied at the centroid of the truss between the two ladder trusses below the truss
- 5) All loads are applied at the panel points of the truss as to not induce local bending stresses in the chords
- 6) All capacities are reduced by 0.85 per ANSI E1.2-2006 for repetitive use members
- 7) Selfweight has been considered
- 8) Maximum deflection based on span/180
- 9) 2ft, 4ft, 5ft, 6ft, 8ft and 10ft sticks of truss have the same allowable capacities. The allowable loads shown in the table above applies to any configuration of the 12x12 custom spigot truss for the spans shown.



\*LOAD TABLES ACCOUNT FOR USE OF "GATE" MEMBERS. NO REDUCTION IN CAPACITY IS NEEDED WHEN USING "GATE" MEMBERS.