

Stacking Truss - 8' length



Type of Load	Clear Span (m)												
	Metre	2.44	4.88	7.32	9.76	12.20	14.64	17.08	19.52	21.96	24.40	26.84	29.28
Number of sections:		1	2	3	4	5	6	7	8	9	10	11	12
Uniformly Distributed Load:	kg/m	<i>2090</i>	<i>856</i>	<i>377</i>	<i>214</i>	<i>133</i>	<i>92</i>	<i>71</i>	<i>51</i>	<i>41</i>	<i>31</i>	<i>31</i>	<i>20</i>
Total UDL:	kg	<i>5097</i>	<i>4179</i>	<i>2783</i>	<i>2090</i>	<i>1672</i>	<i>1397</i>	<i>1193</i>	<i>1040</i>	<i>928</i>	<i>836</i>	<i>765</i>	<i>693</i>
Single Point Load (Mid Point):	kg	4179	2090	1397	1040	836	693	601	520	469	418	377	347
Two Point Loads (Third Points):	Each kg	2548	1570	1040	785	622	520	449	387	347	316	285	265
Three Point Loads (Quarter Points):	Each kg	1702	1040	693	520	418	347	296	265	234	204	194	173

Allowable Bending Moment:	25 kNm
Allowable Shear:	25 kN

- 1 Above allowable loads may be increased by 1.11 for **wind loading only**
- 2 This table is provided as a guide only and assume all loads are applied at restrained nodes. All scaffolds and structures should be checked by a qualified structural engineer.
- 3 Maximum capacity of a point load mid way between nodes is 7.5kN but overall buckling of the top chord should be checked if loads are placed other than at restrained loads.
- 4 Loads indicated in italics and shaded are limited by shear.
- 5 The self weight of the truss is included in these calculations.
- 6 A total of 3 snap braces are required on each 2.44m segment.

Stacking Truss - 4' length



Type of Load	Clear Span (m)														
	Metre	1.22	2.44	3.66	4.88	6.10	7.32	8.53	9.75	10.97	12.19	13.41	14.63	15.85	17.07
Number of sections:		1	2	3	4	5	6	7	8	9	10	11	12	13	14
Uniformly Distributed Load:	kg/m	<i>3242</i>	<i>1621</i>	1081	683	438	306	224	173	133	112	92	71	61	51
Total UDL:	kg	<i>3955</i>	<i>3955</i>	3955	3344	2681	2232	1916	1672	1488	1335	1213	1111	1030	958
Single Point Load (Mid Point):	kg	3955	3344	2232	1672	1335	1111	958	836	744	673	612	561	510	479
Two Point Loads (Third Points):	Each kg	1978	1978	1672	1254	999	836	714	632	561	499	459	418	387	357
Three Point Loads (Quarter Points):	Each kg	1315	1315	1111	836	673	561	479	418	367	336	306	275	255	234

Allowable Bending Moment:	20 kNm
Allowable Shear:	19.4 kN

- 1 Above allowable loads may be increased by 1.11 for **wind loading only**
- 2 This table is provided as a guide only and assume all loads are applied at restrained nodes. All scaffolds and structures should be checked by a qualified structural engineer.
- 3 Maximum capacity of a point load mid way between nodes is 7.5kN but overall buckling of the top chord should be checked if loads are placed other than at restrained loads.
- 4 Loads indicated in italics and shaded are limited by shear.
- 5 The self weight of the truss is included in these calculations.
- 6 A total of 2 snap braces are required on each 1.22m segment.