

Load Chart - Single Span Beam

Span [m]	UDL [kg/m]	Defl [mm]	CPL [kg]	Defl [mm]	TPL [kg]	Defl [mm]	FPL [kg]	Defl [mm]	QPL [kg]	Defl [mm]	Swt [kg]
3	650	4	1943	7	972	5	480	4	641	5	21
4	485	7	1769	13	970	10	470	8	636	9	28
5	390	13	1480	14	968	18	465	14	631	15	35
6	329	17	1270	20	879	26	453	22	628	24	40
7	278	31	1095	23	779	38	441	34	593	34	46
8	242	44	981	32	698	45	410	43	521	44	55
9	215	60	880	43	628	53	370	55	463	53	63
10	180	74	796	52	550	66	334	70	415	67	70
11	149	88	725	64	520	82	312	81	378	80	76
12	122	106	667	75	479	93	285	97	343	96	83
13	105	125	615	90	445	110	255	109	316	112	90
14	90	145	570	110	411	120	248	137	293	130	95
15	78	163	530	129	382	145	211	151	270	149	100
16	70	185	490	145	359	170	201	173	251	169	110
17	60	200	460	165	335	191	189	191	230	190	118
18	53	223	430	185	313	215	179	218	218	213	128
19	49	260	400	208	295	241	171	242	200	230	132
20	42	285	376	230	270	272	152	270	188	245	140

- The specified loading values apply strictly to cantilever configurations, where the truss is fixed at one end and unsupported at the other.
- All load capacities are based on static conditions only. Dynamic effects such as wind loads, motion, vibration, hoists, motors, or live loads are not considered unless clearly stated.
- For complicated cantilever arrangements, extended overhangs, multiple connection points, or combined load conditions, a structural analysis by a qualified professional engineer is compulsory. Please consult a certified structural engineer or Giant Truss for assistance.
- All load values have been calculated in full compliance with Professional Engineer standards to ensure optimal safety and precision.
- The self-weight of the truss is already factored into the stated loading capacities.
- The published load ratings are valid only for the exact truss orientation and cantilever direction shown in the load chart icon. Any variation in orientation will void the stated values.
- The calculations fully account for the interaction between bending moments, shear forces, and connection stresses at the support location.
- Prior to installation, operation, or applying any load, thoroughly review and adhere to the assembly and safety manual supplied with the truss system.