ALLOWABLE ROOF LOADS LDF = 1.25 3000F

This Table can be used to size simple span beams and headers supporting uniform loading. The PLF loads must be calculated and include all floor and roof framing loads on beams & headers

Key: For each clear span there are three numbers
Row 1: Maximum Total Load with LDF=1.25 & deflection limit=l/180
Row 2: Maximum Live Load limited by deflection =l/240
Row 3: Required Bearing Length in trimmer thickness (e.g., 1.5 = 1 trimmer, 3.0 = 2 trimmers, etc)

Allowable Loads for Power Beam® in Pounds per Linear Foot								
SPAN	7" WIDTH							
	Depth (in.)							
	7 1/4	9 1/4	9 1/2	11 1/4	11 7/8	14	16	18
6'	4245	6915	7294	9525	10315	13338	16770	20967
	4245	6915	7294	9525	10315	13338	16770	20967
	3	4.5	4.5	6	6	7.5	9	12
7'	3115	5076	5354	7513	8256	10474	12894	15717
	3024	5076	5354	7513	8256	10474	12894	15717
	3	4.5	4.5	6	6	7.5	9	10.5
8'	2382	3882	4095	5747	6405	8621	10470	12567
	2026	3882	4095	5747	6405	8621	10470	12567
	3	3	3	4.5	6	7.5	7.5	9
9'	1879	3064	3232	4537	5056	7032	8813	10467
	1423	2955	3202	4537	5056	7032	8813	10467
	1.5	3	3	4.5	4.5	6	7.5	9
10'	1370	2478	2615	3671	4091	5691	7437	8967
	1037	2155	2334	3671	4091	5691	7437	8967
	1.5	3	3	4.5	4.5	6	7.5	9
11'	1026	2045	2158	3030	3377	4699	6141	7749
	779	1619	1754	2912	3377	4699	6141	7749
	1.5	3	3	3	4.5	6	6	9
12'	787	1645	1783	2543	2834	3944	5145	6478
	600	1247	1351	2243	2638	3944	5145	6478
	1.5	3	3	3	3	4.5	6	7.5
13'	616	1290	1399	2163	2412	3357	4362	5492
	472	981	1062	1764	2075	3357	4362	5492
	1.5	1.5	3	3	3	4.5	6	7.5
14'	491	1030	1117	1863	2077	2882	3743	4714
	378	785	851	1413	1661	2722	3743	4714
	1.5	1.5	1.5	3	3	4.5	6	6
15'	396	834	905	1510	1779	2498	3246	4088
	307	638	692	1148	1351	2213	3246	4088
	1.5	1.5	1.5	3	3	4.5	4.5	6
16'	324	684	742	1241	1462	2186	2840	3577
	253	526	570	946	1113	1824	2722	3577
	1.5	1.5	1.5	3	3	4.5	4.5	6
17'	268	568	616	1031	1215	1927	2504	3155
	211	439	475	789	928	1520	2270	3155
	1.5	1.5	1.5	3	3	3	4.5	6
18'	224	475	516	865	1020	1682	2224	2802
	178	369	400	665	782	1281	1912	2722
	1.5	1.5	1.5	1.5	3	3	4.5	4.5
19'	188	402	436	733	864	1426	1988	2505
	151	314	340	565	665	1089	1626	2315
	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5
20'	160	342	371	625	738	1219	1786	2252
	130	269	292	484	570	934	1394	1985
	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5
21'	136	293	318	537	634	1050	1576	2034
	112	233	252	419	492	807	1204	1714
	1.5	1.5	1.5	1.5	1.5	3	3	4.5
22'	117	253	275	465	549	909	1367	1846
	97	202	219	364	428	702	1047	1491
	1.5	1.5	1.5	1.5	1.5	3	3	4.5
23'	100	219	238	404	478	793	1192	1682
	85	177	192	319	375	614	916	1305
	1.5	1.5	1.5	1.5	1.5	3	3	4.5
24'	87	191	208	353	418	695	1046	1498
	75	156	169	280	330	540	807	1148
	1.5	1.5	1.5	1.5	1.5	1.5	3	4.5
25'	75	167	182	310	367	612	922	1322
	66	138	149	248	292	478	714	1016
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
26'	65	146	160	273	324	541	816	1171
	59	123	133	221	259	425	634	903
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
28'	50	114	124	215	255	428	648	931
	47	98	106	177	208	340	508	723
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
30'	38	89	98	171	203	343	521	751
	38	80	86	144	169	277	413	588
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3
32'	29	71	77	137	164	278	424	613
	29	66	71	118	139	228	340	484
	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3