ALLOWABLE ROOF LOADS LDF = 1.15 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=1.15 & 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'	3904	6360	6709	8761	9488	12269	15426	19287
	3904	6360	6709	8761	9488	12269	15426	19287
	3	4.5	4.5	6	6	7.5	9	10.5
7'	2865	4668	4925	6910	7594	9634	11860	14457
	2865	4668	4925	6910	7594	9634	11860	14457
	3	3	4.5	4.5	6	6	7.5	9
8'	2190	3570	3766	5286	5890	7929	9630	11559
	2026	3570	3766	5286	5890	7929	9630	11559
	3	3	3	4.5	4.5	6	7.5	9
9'	1728	2817	2972	4172	4650	6467	8105	9627
	1423	2817	2972	4172	4650	6467	8105	9627
	1.5	3	3	4.5	4.5	6	7.5	9
10'	1370	2279	2404	3375	3762	5233	6840	8247
	1037	2155	2334	3375	3762	5233	6840	8247
	1.5	3	3	3	4.5	6	7.5	7.5
11'	1026	1880	1984	2786	3105	4321	5648	7127
	779	1619	1754	2786	3105	4321	5648	7127
	1.5	3	3	3	4.5	4.5	6	7.5
12'	787	1577	1664	2338	2606	3626	4731	5957
	600	1247	1351	2243	2606	3626	4731	5957
	1.5	3	3	3	3	4.5	6	7.5
13'	616	1290	1399	1989	2217	3086	4011	5050
	472	981	1062	1764	2075	3086	4011	5050
	1.5	1.5	3	3	3	4.5	6	6
14'	491	1030	1117	1712	1909	2649	3441	4334
	378	785	851	1413	1661	2649	3441	4334
	1.5	1.5	1.5	3	3	4.5	4.5	6
15'	396	834	905	1489	1660	2297	2984	3758
	307	638	692	1148	1351	2213	2984	3758
	1.5	1.5	1.5	3	3	4.5	4.5	6
16'	324	684	742	1241	1454	2009	2610	3288
	253	526	570	946	1113	1824	2610	3288
	1.5	1.5	1.5	3	3	3	4.5	6
17'	268	568	616	1031	1215	1771	2302	2900
	211	439	475	789	928	1520	2270	2900
	1.5	1.5	1.5	3	3	3	4.5	4.5
18'	224	475	516	865	1020	1572	2044	2576
	178	369	400	665	782	1281	1912	2576
	1.5	1.5	1.5	1.5	3	3	4.5	4.5
19'	188	402	436	733	864	1405	1826	2302
	151	314	340	565	665	1089	1626	2302
	1.5	1.5	1.5	1.5	1.5	3	4.5	4.5
20'	160	342	371	625	738	1219	1641	2069
	130	269	292	484	570	934	1394	1985
	1.5	1.5	1.5	1.5	1.5	3	3	4.5
21'	136	293	318	537	634	1050	1482	1869
	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	1345	1696
	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	1545
	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	1413
	75	156	169	280	330	540	807	1148
	1.5	1.5	1.5	1.5	1.5	1.5	3	3
25'	75	167	182	310	367	612	922	1297
	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