

### CANTILEVER RESIDENTIAL FLOOR BEAMS (L/360)

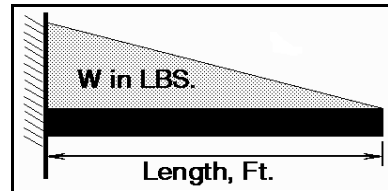
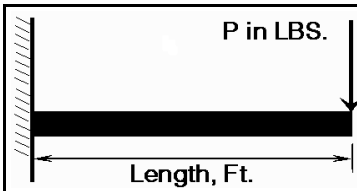
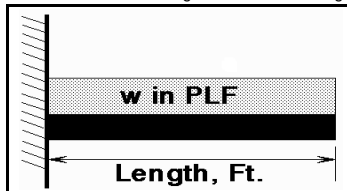
California Building Code 2007 Edition (CBC), NDS 2005

Lumber: Douglas Fir-Larch, Surfaced-Dry condition (19% maximum moisture content).

Design Criteria: Strength: Based on allowable bending stresses and shear stresses for Dead + Live loads.

Deflection: Based on L/360 for Live loads only.

- NOTES: 1. Horizontal shear at "d" distance from support controls design in area left of solid line. **(Bold)**  
 2. Deflection controls design in area right of double line. **(Bold Italics)**  
 3. Bending stress controls design in area between solid and double lines.



SIZES W x D	GRADE	ALLOWABLE UNIFORM LOAD (PLF) LENGTH (FEET) OF CANTILEVER							ALLOWABLE END POINT LOAD (LBS) LENGTH (FEET) OF CANTILEVER							ALLOWABLE TRIANGULAR LOAD (LBS) LENGTH (FEET) OF CANTILEVER						
		4	6	8	10	12	14	16	4	6	8	10	12	14	16	4	6	8	10	12	14	16
4 x 4	SS	54	16	7	3	2	1	1	81	36	20	13	9	7	5	407	181	102	65	45	33	25
4 x 4	#1+	51	15	6	3	2	1	1	77	34	19	12	9	6	5	384	171	96	62	43	31	24
4 x 4	#1	48	14	6	3	2	1	1	72	32	18	12	8	6	5	362	161	90	58	40	30	23
4 x 4	#2	57	17	7	4	2	1	1	86	38	21	14	10	7	5	430	191	107	69	48	35	27
4 x 6	SS	211	62	26	13	8	5	3	316	140	79	51	35	26	20	1456	702	395	253	176	129	99
4 x 6	#1+	199	59	25	13	7	5	3	298	133	75	48	33	24	19	1213	663	373	239	166	122	93
4 x 6	#1	182	55	23	12	7	4	3	281	125	70	45	31	23	18	1092	624	351	225	156	115	88
4 x 6	#2	222	66	28	14	8	5	3	333	148	83	53	37	27	21	1654	741	417	267	185	136	104
4 x 8	SS	383	143	60	31	18	11	8	724	322	181	116	80	59	45	2300	1533	905	579	402	295	226
4 x 8	#1+	319	135	57	29	17	11	7	639	304	171	109	76	56	43	1916	1278	854	547	380	279	214
4 x 8	#1	287	127	54	27	16	10	7	575	286	161	103	71	53	40	1725	1150	804	515	357	263	201
4 x 8	#2	479	151	64	33	19	12	8	764	339	191	122	85	62	48	2875	1697	955	611	424	312	239
4 x 10	SS	624	277	125	64	37	23	16	1248	668	376	240	167	123	94	3743	2496	1872	1202	835	613	470
4 x 10	#1+	520	231	118	61	35	22	15	1040	631	355	227	158	116	89	3119	2080	1560	1136	789	579	444
4 x 10	#1	468	208	111	57	33	21	14	936	594	334	214	148	109	83	2808	1872	1404	1069	742	545	417
4 x 10	#2	780	264	111	57	33	21	14	1336	594	334	214	148	109	83	4679	2969	1670	1069	742	545	417
4 x 12	SS	923	410	200	103	59	37	25	1846	1068	601	385	267	196	150	5537	3691	2769	1923	1335	981	751
4 x 12	#1+	577	256	144	83	48	30	20	1154	769	488	312	217	159	122	3461	2307	1730	1384	1085	797	610
4 x 12	#1	1154	475	200	103	59	37	25	2307	1068	601	385	267	196	150	6921	4614	3004	1923	1335	981	751
4 x 12	#2	923	410	200	103	59	37	25	1846	1068	601	385	267	196	150	5537	3691	2769	1923	1335	981	751
4 x 14	SS	800	356	200	128	79	50	33	1600	1067	798	510	354	260	199	4801	3200	2400	1920	1600	1302	997
4 x 14	#1+	1707	759	327	168	97	61	41	3414	1745	982	628	436	321	245	10028	6827	4908	3141	2181	1603	1227
4 x 14	#1	1440	640	327	168	97	61	41	2880	1745	982	628	436	321	245	8641	5761	4320	3141	2181	1603	1227
4 x 14	#2	933	415	233	136	79	50	33	1867	1245	798	510	354	260	199	5601	3734	2800	2240	1772	1302	997
4 x 16	SS	2216	1005	499	255	148	93	62	4522	2661	1497	958	665	489	374	12994	9044	6783	4789	3326	2443	1871
4 x 16	#1+	1908	848	477	255	148	93	62	3815	2544	1497	958	665	489	374	11446	7631	5723	4579	3326	2443	1871
4 x 16	#1	1236	550	309	198	120	76	51	2473	1649	1216	778	540	397	304	7419	4946	3709	2968	2473	1985	1520
4 x 16	#2	2216	992	499	255	148	93	62	4463	2661	1497	958	665	489	374	12994	8925	6694	4789	3326	2443	1871
6 x 6	SS	294	87	37	19	11	7	5	441	196	110	71	49	36	28	2206	981	552	353	245	180	138
6 x 6	#1	239	71	30	15	9	6	4	359	159	90	57	40	29	22	1496	797	448	287	199	146	112
6 x 8	SS	705	221	93	48	28	17	12	1119	497	280	179	124	91	70	4228	2487	1399	895	622	457	350
6 x 8	#1	457	180	76	39	22	14	9	909	404	227	145	101	74	57	2739	1826	1136	727	505	371	284
6 x 10	SS	1115	449	190	97	56	35	24	2230	1011	569	364	253	186	142	6691	4460	2843	1819	1263	928	711
6 x 10	#1	723	321	154	79	46	29	19	1446	821	462	296	205	151	115	4338	2892	2169	1478	1027	754	577
6 x 12	SS	1615	718	336	172	100	63	42	3230	1793	1008	645	448	329	252	9691	6461	4845	3227	2241	1647	1261
6 x 12	#1	1047	465	262	140	81	51	34	2094	1396	819	524	364	268	205	6281	4187	3141	2512	1821	1338	1024
6 x 14	SS	2201	978	544	278	161	101	68	4403	2900	1631	1044	725	533	408	13208	8806	6604	5221	3625	2664	2039
6 x 14	#1	1427	634	357	226	131	82	55	2854	1903	1326	848	589	433	331	8562	5708	4281	3425	2854	2164	1657
6 x 16	SS	2872	1277	718	421	244	154	103	5744	3830	2469	1580	1097	806	617	17233	11489	8616	6893	5487	4032	3087
6 x 16	#1	1863	828	466	298	198	125	84	3726	2484	1863	1284	892	655	502	11177	7451	5588	4471	3726	3193	2508
6 x 18	SS	3509	1560	877	561	351	221	148	7018	4679	3509	2274	1579	1160	888	21055	14036	10527	8422	7018	5802	4442
6 x 18	#1	2193	975	548	351	244	179	120	4386	2924	2193	1755	1283	943	722	13159	8773	6580	5264	4386	3760	3290
6 x 20	SS	4357	1936	1089	697	484	306	205	8714	5809	4357	3147	2185	1605	1229	26142	17428	13071	10457	8714	7469	6146
6 x 20	#1	2723	1210	681	436	303	222	166	5446	3631	2723	2179	1776	1304	999	16339	10893	8169	6536	5446	4668	4085
8 x 8	SS	961	301	127	65	38	24	16	1526	678	381	244	170	125	95	5766	3391	1907	1221	848	623	477
8 x 8	#1	623	245	103	53	31	19	13	1240	551	310	198	138	101	77	3735	2490	1550	992	689	506	387
8 x 10	SS	1521	613	258	132	77	48	32	3041	1378	775	496	345	253	194	9124	6082	3876	2481	1723	1266	969
8 x 10	#1	986	438	210	108	62	39	26	1972	1120	630	403	280	206	157	5916	3944	2958	2016	1400	1028	787
8 x 12	SS	2202	979	458	235	136	86	57	4405	2445	1375	880	611	449	344	13215	8810	6607	4401	3056	2245	1719
8 x 12	#1	1428	634	357	191	110	69	47	2855	1903	1117	715	497	365	279	8565	5710	4283	3426	2483	1824	1397
8 x 14	SS	3002	1334	742	380	220	138	93	6004	3955	2225	1424	989	726	556	18011	12008	9006	7119	4944	3632	2781
8 x 14	#1	1946	865	486	308	179	112	75	3892	2595	1808	1157	803	590	452	11675	7784	5838	4670	3892	2951	2259
8 x 16	SS	3917	1741	979	575	333	209	140	7833	5222	3367	2155	1497	1100	842	23499	15666	11750	9400	7483	5498	4209
8 x 16	#1	2540	1129	635	406	270	170	114	5080	3387	2540	1751	1216	893	684	15241	10161	7620	6096	5080	4355	3420

**DIVISION OF BUILDING AND SAFETY  
COUNTY OF VENTURA**

BUILDING OFFICIAL

*Jim MacDonald*

B & S  
STD

**B-22**

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