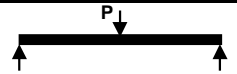


RESIDENTIAL FLOOR HEADERS WITH CONCENTRATED CENTER LOAD (L/360)
California Building Code 2007 Edition (CBC), NDS 2005

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 Dead plus Live load.



SIZES W x D	GRADE	LENGTH (FEET) THE MEMBER SPANS																						
		4	6	8	10	12	14	16	18	20	22	24	26	28	30	32								
4 x 4	SS	1340	611	344	220	153	112	86	NOTES 1. Horizontal shear controls design in area left of solid line. (<i>Bold Italics</i>) 2. Deflection controls design in area right of double line. (<i>Bold</i>) 3. Bending stress controls design in area between solid and double lines.															
4 x 4	#1+	1072	579	326	208	145	106	81																
4 x 4	#1	893	547	308	197	137	100	77																
4 x 4	#2	804	515	289	185	129	95	72																
4 x 6	SS	2867	1912	1334	854	593	436	333	LENGTH (FEET) THE MEMBER SPANS															
4 x 6	#1+	2294	1529	1147	809	562	413	316																
4 x 6	#1	1912	1274	956	764	530	390	298																
4 x 6	#2	1720	1147	860	688	499	367	281									18	20	22	24	26	28	30	32
4 x 8	SS	4982	3322	2491	1955	1358	998	764	604	489	404	339	289	249	217	191								
4 x 8	#1+	3986	2657	1993	1594	1286	945	724	572	463	383	322	274	236	206	181								
4 x 8	#1	3322	2214	1661	1329	1107	893	683	540	437	361	304	259	223	194	171								
4 x 8	#2	2989	1993	1495	1196	996	840	643	508	412	340	286	244	210	183	161								
4 x 10	SS	7487	4991	3743	2995	2496	2072	1586	1253	1015	839	705	601	518	451	397								
4 x 10	#1+	5989	3993	2995	2396	1996	1711	1497	1187	962	795	668	569	491	427	376								
4 x 10	#1	4991	3327	2496	1996	1664	1426	1248	1109	908	751	631	538	463	404	355								
4 x 10	#2	4492	2995	2246	1797	1497	1283	1123	998	855	707	594	506	436	380	334								
4 x 12	SS	9450	6768	5076	4061	3384	2900	2538	2255	1826	1509	1268	1081	932	812	713								
4 x 12	#1+	8121	5414	4061	3248	2707	2320	2030	1805	1624	1430	1202	1024	883	769	676								
4 x 12	#1	6768	4512	3384	2707	2256	1934	1692	1504	1354	1230	1128	967	834	726	638								
4 x 12	#2	6091	4061	3045	2436	2030	1740	1523	1354	1218	1107	1015	910	785	684	601								
4 x 14	SS	11130	8534	6401	5121	4267	3658	3200	2845	2560	2328	2072	1766	1522	1326	1166								
4 x 14	#1+	10241	6827	5121	4096	3414	2926	2560	2276	2048	1862	1707	1576	1442	1256	1104								
4 x 14	#1	8534	5690	4267	3414	2845	2438	2134	1897	1707	1552	1422	1313	1219	1138	1043								
4 x 14	#2	7681	5121	3840	3072	2560	2195	1920	1707	1536	1397	1280	1182	1097	1024	960								
4 x 16	SS	12810	11305	8479	6783	5653	4845	4239	3768	3392	3083	2826	2609	2321	2022	1777								
4 x 16	#1+	12810	9044	6783	5426	4522	3876	3392	3015	2713	2467	2261	2087	1938	1809	1684								
4 x 16	#1	11305	7537	5653	4522	3768	3230	2826	2512	2261	2055	1884	1739	1615	1507	1413								
4 x 16	#2	10175	6783	5087	4070	3392	2907	2544	2261	2035	1850	1696	1565	1454	1357	1272								
6 x 6	SS	3466	2311	1733	1130	785	576	441	349	282	233	196	167	144	126	110								
6 x 6	#1	2773	1849	1386	1109	785	576	441	349	282	233	196	167	144	126	110								
6 x 8	SS	6445	4297	3223	2578	1989	1462	1119	884	716	592	497	424	365	318	280								
6 x 8	#1	5156	3438	2578	2063	1719	1462	1119	884	716	592	497	424	365	318	280								
6 x 10	SS	11031	7354	5515	4412	3677	2970	2274	1797	1455	1203	1011	861	743	647	569								
6 x 10	#1	9307	6205	4654	3723	3102	2659	2274	1797	1455	1203	1011	861	743	647	569								
6 x 12	SS	14337	10776	8082	6466	5388	4618	4034	3187	2582	2134	1793	1528	1317	1147	1008								
6 x 12	#1	13638	9092	6819	5455	4546	3897	3410	3031	2582	2134	1793	1528	1317	1147	1008								
6 x 14	SS	16830	14655	10991	8793	7328	6281	5496	4885	4177	3452	2900	2471	2131	1856	1631								
6 x 14	#1	16830	12363	9272	7418	6181	5298	4636	4121	3709	3372	2900	2471	2131	1856	1631								
6 x 16	SS	19323	19025	14269	11415	9513	8154	7135	6342	5708	5189	4390	3740	3225	2810	2469								
6 x 16	#1	19323	16052	12039	9631	8026	6880	6020	5351	4816	4378	4013	3704	3225	2810	2469								
6 x 18	SS	21817	21817	17943	14355	11962	10253	8972	7975	7177	6525	5981	5383	4642	4043	3554								
6 x 18	#1	21817	20181	15136	12109	10091	8649	7568	6727	6054	5504	5045	4657	4325	4036	3554								
6 x 20	SS	24310	24310	22003	17602	14669	12573	11002	9779	8801	8001	7334	6770	6287	5594	4917								
6 x 20	#1	24310	24310	18575	14860	12384	10615	9288	8256	7430	6755	6192	5716	5307	4953	4644								
8 x 8	SS	8789	5859	4395	3516	2713	1993	1526	1206	977	807	678	578	498	434	381								
8 x 8	#1	7031	4688	3516	2813	2344	1993	1526	1206	977	807	678	578	498	434	381								
8 x 10	SS	14102	9401	7051	5641	4701	4029	3101	2450	1985	1640	1378	1174	1013	882	775								
8 x 10	#1	11281	7521	5641	4513	3760	3223	2820	2450	1985	1640	1378	1174	1013	882	775								
8 x 12	SS	19550	14694	11021	8817	7347	6298	5501	4346	3521	2910	2445	2083	1796	1565	1375								
8 x 12	#1	18598	12398	9299	7439	6199	5314	4649	4133	3521	2910	2445	2083	1796	1565	1375								
8 x 14	SS	22950	19984	14988	11991	9992	8565	7494	6661	5695	4707	3955	3370	2906	2531	2225								
8 x 14	#1	22950	16858	12644	10115	8429	7225	6322	5619	5057	4598	3955	3370	2906	2531	2225								
8 x 16	SS	26350	25944	19458	15566	12972	11119	9729	8648	7783	7076	5986	5101	4398	3831	3367								
8 x 16	#1	26350	21889	16417	13134	10945	9381	8209	7296	6567	5970	5472	5051	4398	3831	3367								
8 x 18	SS	29750	29750	24468	19574	16312	13982	12234	10875	9787	8897	8156	7341	6330	5514	4846								
8 x 18	#1	29750	27520	20640	16512	13760	11794	10320	9173	8256	7505	6880	6351	5897	5504	4846								
8 x 20	SS	33150	33150	30004	24003	20003	17145	15002	13335	12002	10911	10001	9232	8573	7628	6705								
8 x 20	#1	33150	33150	25330	20264	16887	14474	12665	11258	10132	9211	8443	7794	7237	6755	6333								
8 x 22	SS	36550	36550	36089	28871	24059	20622	18045	16040	14436	13123	12030	11104	10311	9624	8987								
8 x 22	#1	36550	36550	30456	24364	20304	17403	15228	13536	12182	11075	10152	9371	8702	8121	7614								
8 x 24	SS	39950	39950	39950	34147	28456	24391	21342	18971	17074	15522	14228	13134	12196	11382	10671								
8 x 24	#1	39950	39950	36011	28809	24008	20578	18006	16005	14405	13095	12004	11080	10289	9603	9003								

DIVISION OF BUILDING AND SAFETY
COUNTY OF VENTURA

B & S
STD **B-13**

DATE: 01/01/08

BUILDING OFFICIAL _____

Jim MacDonald