

Allowable Load for 3½" Wide 30F-E/DF2 Glulam Floor Beams

 Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)	1403	1520									
	TL (plf)	1552	1637	2261	2429	3043	3696	4436	5282	6259	7399	8746
	BRG (in.)	2.7	2.9	4.0	4.3	5.4	6.5	7.8	9.3	11.0	13.0	15.4
10'	LL (plf)	718	778	1292	1520							
	TL (plf)	990	1044	1467	1635	2246	2684	3164	3692	4276	4925	5651
	BRG (in.)	2.2	2.3	3.2	3.6	5.0	5.9	7.0	8.2	9.4	10.9	12.5
12'	LL (plf)	416	450	748	879	1441						
	TL (plf)	615	667	1015	1132	1576	2060	2457	2836	3245	3689	4171
	BRG (in.)	1.6	1.8	2.7	3.0	4.2	5.5	6.5	7.5	8.6	9.8	11.1
14'	LL (plf)	262	284	471	554	907	1354					
	TL (plf)	384	417	696	820	1154	1510	1913	2301	2613	2947	3303
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.7	5.9	7.1	8.1	9.1	10.2
16'	LL (plf)	175	190	315	371	608	907	1292	1772			
	TL (plf)	255	276	463	546	881	1152	1461	1805	2186	2452	2733
	BRG (in.)	1.5	1.5	1.7	2.0	3.1	4.1	5.2	6.4	7.8	8.7	9.7
18'	LL (plf)	123	133	222	261	427	637	907	1245	1657		
	TL (plf)	177	192	322	380	628	908	1151	1423	1711	2020	2330
	BRG (in.)	1.5	1.5	1.5	1.5	2.5	3.6	4.6	5.7	6.8	8.1	9.3
20'	LL (plf)	90	97	161	190	311	465	662	907	1208	1568	
	TL (plf)	126	137	232	274	454	683	929	1140	1368	1615	1882
	BRG (in.)	1.5	1.5	1.5	1.5	2.1	3.1	4.2	5.1	6.1	7.2	8.4
22'	LL (plf)	67	73	121	143	234	349	497	682	907	1178	1498
	TL (plf)	93	101	172	204	338	509	730	930	1116	1318	1537
	BRG (in.)	1.5	1.5	1.5	1.5	1.7	2.5	3.6	4.6	5.5	6.5	7.5
24'	LL (plf)	52	56	93	110	180	269	383	525	699	907	1154
	TL (plf)	70	76	130	154	258	389	558	770	926	1095	1276
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	4.2	5.0	5.9	6.9
26'	LL (plf)	--	--	74	86	142	211	301	413	550	714	907
	TL (plf)	--	--	100	119	200	303	436	602	780	922	1075
	BRG (in.)	--	--	1.5	1.5	1.5	1.8	2.6	3.5	4.6	5.4	6.3
28'	LL (plf)	--	--	59	69	113	169	241	331	440	571	727
	TL (plf)	--	--	78	93	158	240	346	478	641	786	917
	BRG (in.)	--	--	1.5	1.5	1.5	1.6	2.2	3.1	4.1	5.0	5.8
30'	LL (plf)	--	--	--	56	92	138	196	269	358	465	591
	TL (plf)	--	--	--	74	126	192	278	386	517	676	790
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.9	2.7	3.5	4.6	5.4
32'	LL (plf)	--	--	--	--	76	113	161	222	295	383	487
	TL (plf)	--	--	--	--	102	156	226	315	423	553	687
	BRG (in.)	--	--	--	--	1.5	1.5	1.7	2.3	3.1	4.0	5.0
34'	LL (plf)	--	--	--	--	63	95	135	185	246	319	406
	TL (plf)	--	--	--	--	83	128	186	259	349	457	586
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	2.1	2.8	3.6	4.5
36'	LL (plf)	--	--	--	--	53	80	113	156	207	269	342
	TL (plf)	--	--	--	--	68	105	154	216	291	382	490
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.5	3.2	4.1
38'	LL (plf)	--	--	--	--	--	68	96	132	176	229	291
	TL (plf)	--	--	--	--	--	87	129	181	245	322	413
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.7	2.2	2.9	3.6
40'	LL (plf)	--	--	--	--	--	58	83	113	151	196	249
	TL (plf)	--	--	--	--	--	73	108	152	207	273	351
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	2.0	2.6	3.3
42'	LL (plf)	--	--	--	--	--	50	71	98	130	169	215
	TL (plf)	--	--	--	--	--	61	91	129	176	233	300
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.8	2.3	3.0
44'	LL (plf)	--	--	--	--	--	--	62	85	113	147	187
	TL (plf)	--	--	--	--	--	--	77	110	151	200	258
	BRG (in.)	--	--	--	--	--	--	1.5	1.5	1.6	2.1	2.7
46'	LL (plf)	--	--	--	--	--	--	54	75	99	129	164
	TL (plf)	--	--	--	--	--	--	66	94	129	172	223
	BRG (in.)	--	--	--	--	--	--	1.5	1.5	1.5	2.0	2.5
48'	LL (plf)	--	--	--	--	--	--	--	66	87	113	144
	TL (plf)	--	--	--	--	--	--	--	81	112	149	193
	BRG (in.)	--	--	--	--	--	--	--	1.5	1.5	1.8	2.3

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/360.
4. Tabulated total load (TL) is based on the deflection criterion of span/240.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 5½" Wide 30F-E/DF2 Glulam Floor Beams

 Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)	2204	2388									
	TL (plf)	2438	2572	3554	3816	4782	5808	6971	8301	9835	11627	13744
	BRG (in.)	2.7	2.9	4.0	4.3	5.4	6.5	7.8	9.3	11.0	13.0	15.4
10'	LL (plf)	1129	1223	2030	2388							
	TL (plf)	1556	1641	2305	2569	3529	4218	4972	5802	6720	7740	8880
	BRG (in.)	2.2	2.3	3.2	3.6	5.0	5.9	7.0	8.2	9.4	10.9	12.5
12'	LL (plf)	653	707	1175	1382	2264						
	TL (plf)	967	1048	1596	1779	2476	3237	3862	4457	5100	5797	6554
	BRG (in.)	1.6	1.8	2.7	3.0	4.2	5.5	6.5	7.5	8.6	9.8	11.1
14'	LL (plf)	411	446	740	870	1426	2128					
	TL (plf)	604	655	1094	1289	1814	2372	2984	3616	4107	4631	5191
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.7	5.9	7.1	8.1	9.1	10.2
16'	LL (plf)	276	298	496	583	955	1426	2030				
	TL (plf)	400	434	728	858	1384	1795	2248	2749	3298	3853	4295
	BRG (in.)	1.5	1.5	1.7	2.0	3.1	4.1	5.1	6.2	7.4	8.7	9.7
18'	LL (plf)	194	210	348	409	671	1001	1426	1956			
	TL (plf)	277	301	507	598	987	1397	1750	2141	2569	3033	3534
	BRG (in.)	1.5	1.5	1.5	1.5	2.5	3.6	4.5	5.5	6.5	7.7	9.0
20'	LL (plf)	141	153	254	298	489	730	1040	1426	1898		
	TL (plf)	199	216	365	431	714	1073	1398	1710	2053	2424	2825
	BRG (in.)	1.5	1.5	1.5	1.5	2.1	3.1	4.0	4.9	5.8	6.9	8.0
22'	LL (plf)	106	115	191	224	367	549	781	1071	1426	1851	
	TL (plf)	146	159	270	320	532	800	1140	1395	1675	1979	2306
	BRG (in.)	1.5	1.5	1.5	1.5	1.7	2.5	3.6	4.4	5.2	6.2	7.2
24'	LL (plf)	82	88	147	173	283	422	602	825	1098	1426	1813
	TL (plf)	110	119	205	243	405	611	877	1157	1390	1643	1915
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	4.0	4.8	5.6	6.5
26'	LL (plf)	64	70	116	136	223	332	473	649	864	1122	1426
	TL (plf)	83	91	158	187	314	476	685	946	1170	1383	1613
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.4	5.2	6.0
28'	LL (plf)	51	56	92	109	178	266	379	520	692	898	1142
	TL (plf)	64	70	123	147	248	377	543	752	997	1179	1375
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.6	2.2	3.1	4.0	4.7	5.5
30'	LL (plf)	--	--	75	88	145	216	308	422	562	730	928
	TL (plf)	--	--	97	116	198	302	437	606	813	1016	1185
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.9	2.7	3.5	4.4	5.1
32'	LL (plf)	--	--	62	73	119	178	254	348	463	602	765
	TL (plf)	--	--	77	93	160	245	356	494	664	869	1030
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.7	2.3	3.1	4.0	4.8
34'	LL (plf)	--	--	52	61	100	149	212	290	386	502	638
	TL (plf)	--	--	62	75	130	201	292	407	549	719	903
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.5	2.1	2.8	3.6	4.5
36'	LL (plf)	--	--	--	51	84	125	178	245	325	422	537
	TL (plf)	--	--	--	60	106	165	242	339	457	600	770
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	1.8	2.5	3.2	4.1
38'	LL (plf)	--	--	--	--	71	106	152	208	277	359	457
	TL (plf)	--	--	--	--	87	137	202	284	384	505	649
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.7	2.2	2.9	3.6
40'	LL (plf)	--	--	--	--	61	91	130	178	237	308	392
	TL (plf)	--	--	--	--	72	115	170	239	325	429	551
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
42'	LL (plf)	--	--	--	--	53	79	112	154	205	266	338
	TL (plf)	--	--	--	--	60	96	143	203	277	366	471
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.3	3.0
44'	LL (plf)	--	--	--	--	--	69	98	134	178	231	294
	TL (plf)	--	--	--	--	--	81	121	173	237	314	405
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.6	2.1	2.7
46'	LL (plf)	--	--	--	--	--	60	85	117	156	203	257
	TL (plf)	--	--	--	--	--	68	103	148	203	270	350
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.5
48'	LL (plf)	--	--	--	--	--	53	75	103	137	178	227
	TL (plf)	--	--	--	--	--	57	88	127	175	234	304
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.3

- Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
- Applicable to dry-use service conditions ($C_M = 1.0$).
- Tabulated live load (LL) is based on the deflection criterion of span/360.
- Tabulated total load (TL) is based on the deflection criterion of span/240.

- Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
- Selected beam size shall satisfy both live load and total load.
- "--" indicates the allowable load is smaller than 50 plf.
- Blank live load indicates the live load does not control.
- Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 7" Wide 30F-E/DF2 Glulam Floor Beams
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)	2805	3039									
	TL (plf)	3103	3274	4523	4857	6086	7392	8872	10565	12518	14797	17492
	BRG (in.)	2.7	2.9	4.0	4.3	5.4	6.5	7.8	9.3	11.0	13.0	15.4
10'	LL (plf)	1436	1556	2584	3039							
	TL (plf)	1980	2089	2933	3269	4492	5368	6328	7385	8553	9851	11302
	BRG (in.)	2.2	2.3	3.2	3.6	5.0	5.9	7.0	8.2	9.4	10.9	12.5
12'	LL (plf)	831	900	1495	1759	2882						
	TL (plf)	1230	1334	2031	2264	3151	4103	4915	5672	6491	7377	8342
	BRG (in.)	1.6	1.8	2.7	3.0	4.2	5.4	6.5	7.5	8.6	9.8	11.1
14'	LL (plf)	523	567	942	1108	1815	2709					
	TL (plf)	769	834	1393	1640	2294	2961	3707	4532	5227	5893	6606
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.6	5.8	7.0	8.1	9.1	10.2
16'	LL (plf)	351	380	631	742	1216	1815	2584				
	TL (plf)	510	553	926	1092	1727	2230	2793	3415	4096	4836	5466
	BRG (in.)	1.5	1.5	1.7	2.0	3.1	4.0	5.0	6.1	7.3	8.6	9.7
18'	LL (plf)	246	267	443	521	854	1275	1815	2489			
	TL (plf)	353	383	645	761	1256	1735	2174	2659	3190	3767	4389
	BRG (in.)	1.5	1.5	1.5	1.5	2.5	3.5	4.4	5.3	6.4	7.5	8.8
20'	LL (plf)	180	194	323	380	622	929	1323	1815	2416		
	TL (plf)	253	275	465	549	909	1365	1736	2124	2549	3011	3509
	BRG (in.)	1.5	1.5	1.5	1.5	2.1	3.1	3.9	4.7	5.7	6.7	7.8
22'	LL (plf)	135	146	243	285	468	698	994	1363	1815	2356	
	TL (plf)	186	202	344	407	677	1019	1415	1732	2080	2457	2864
	BRG (in.)	1.5	1.5	1.5	1.5	1.7	2.5	3.5	4.3	5.1	6.0	7.0
24'	LL (plf)	104	113	187	220	360	538	766	1050	1398	1815	2307
	TL (plf)	139	152	260	309	516	778	1117	1437	1726	2040	2378
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	3.9	4.7	5.5	6.4
26'	LL (plf)	82	89	147	173	283	423	602	826	1099	1427	1815
	TL (plf)	106	116	201	238	400	606	871	1204	1453	1718	2003
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.3	5.0	5.9
28'	LL (plf)	65	71	118	138	227	339	482	661	880	1143	1453
	TL (plf)	82	89	157	187	315	480	691	957	1238	1464	1708
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.6	2.2	3.1	3.9	4.6	5.4
30'	LL (plf)	53	58	96	113	184	275	392	538	716	929	1181
	TL (plf)	63	70	124	148	252	385	556	771	1035	1261	1471
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.5	1.9	2.7	3.5	4.3	5.0
32'	LL (plf)	--	--	79	93	152	227	323	443	590	766	973
	TL (plf)	--	--	98	118	203	312	453	629	846	1095	1279
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.7	2.3	3.1	4.0	4.7
34'	LL (plf)	--	--	66	77	127	189	269	369	492	638	812
	TL (plf)	--	--	79	95	165	255	372	519	698	915	1120
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.5	2.1	2.8	3.6	4.4
36'	LL (plf)	--	--	55	65	107	159	227	311	414	538	684
	TL (plf)	--	--	63	77	135	211	308	431	582	764	979
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.5	1.8	2.5	3.2	4.1
38'	LL (plf)	--	--	--	55	91	135	193	265	352	457	581
	TL (plf)	--	--	--	62	111	175	257	361	489	643	826
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	1.7	2.2	2.9	3.6
40'	LL (plf)	--	--	--	--	78	116	165	227	302	392	498
	TL (plf)	--	--	--	--	92	146	216	305	414	545	701
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
42'	LL (plf)	--	--	--	--	67	100	143	196	261	339	431
	TL (plf)	--	--	--	--	76	122	182	258	352	465	600
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.3	3.0
44'	LL (plf)	--	--	--	--	58	87	124	170	227	295	374
	TL (plf)	--	--	--	--	63	103	154	220	301	399	516
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.6	2.1	2.7
46'	LL (plf)	--	--	--	--	51	76	109	149	199	258	328
	TL (plf)	--	--	--	--	52	86	131	188	259	344	445
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.5	2.0	2.5
48'	LL (plf)	--	--	--	--	--	67	96	131	175	227	288
	TL (plf)	--	--	--	--	--	72	112	161	223	298	387
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.3

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- Applicable to dry-use service conditions ($C_M = 1.0$).
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- Tabulated total load (TL) is based on the deflection criterion of span/240.

- Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
- Selected beam size shall satisfy both live load and total load.
- "--" indicates the allowable load is smaller than 50 plf.
- Blank live load indicates the live load does not control.
- Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 3½" Wide 30F-E/DF2 Glulam Floor Beams

 Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)	1052	1140	1893	2226							
	TL (plf)	1552	1637	2261	2429	3043	3696	4436	5282	6259	7399	8746
	BRG (in.)	2.7	2.9	4.0	4.3	5.4	6.5	7.8	9.3	11.0	13.0	15.4
10'	LL (plf)	539	583	969	1140	1867						
	TL (plf)	990	1044	1467	1635	2246	2684	3164	3692	4276	4925	5651
	BRG (in.)	2.2	2.3	3.2	3.6	5.0	5.9	7.0	8.2	9.4	10.9	12.5
12'	LL (plf)	312	338	561	660	1081	1613	2297				
	TL (plf)	615	667	1015	1132	1576	2060	2457	2836	3245	3689	4171
	BRG (in.)	1.6	1.8	2.7	3.0	4.2	5.5	6.5	7.5	8.6	9.8	11.1
14'	LL (plf)	196	213	353	415	681	1016	1446	1984			
	TL (plf)	384	417	696	820	1154	1510	1913	2301	2613	2947	3303
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.7	5.9	7.1	8.1	9.1	10.2
16'	LL (plf)	132	142	237	278	456	681	969	1329	1769	2297	
	TL (plf)	255	276	463	546	881	1152	1461	1805	2186	2452	2733
	BRG (in.)	1.5	1.5	1.7	2.0	3.1	4.1	5.2	6.4	7.8	8.7	9.7
18'	LL (plf)	92	100	166	195	320	478	681	934	1243	1613	2051
	TL (plf)	177	192	322	380	628	908	1151	1423	1711	2020	2330
	BRG (in.)	1.5	1.5	1.5	1.5	2.5	3.6	4.6	5.7	6.8	8.1	9.3
20'	LL (plf)	67	73	121	142	233	348	496	681	906	1176	1495
	TL (plf)	126	137	232	274	454	683	929	1140	1368	1615	1882
	BRG (in.)	1.5	1.5	1.5	1.5	2.1	3.1	4.2	5.1	6.1	7.2	8.4
22'	LL (plf)	51	55	91	107	175	262	373	511	681	884	1123
	TL (plf)	93	101	172	204	338	509	730	930	1116	1318	1537
	BRG (in.)	1.5	1.5	1.5	1.5	1.7	2.5	3.6	4.6	5.5	6.5	7.5
24'	LL (plf)	--	--	70	82	135	202	287	394	524	681	865
	TL (plf)	--	--	130	154	258	389	558	770	926	1095	1276
	BRG (in.)	--	--	1.5	1.5	1.5	2.1	3.0	4.2	5.0	5.9	6.9
26'	LL (plf)	--	--	55	65	106	159	226	310	412	535	681
	TL (plf)	--	--	100	119	200	303	436	602	780	922	1075
	BRG (in.)	--	--	1.5	1.5	1.5	1.8	2.6	3.5	4.6	5.4	6.3
28'	LL (plf)	--	--	--	52	85	127	181	248	330	429	545
	TL (plf)	--	--	--	93	158	240	346	478	641	786	917
	BRG (in.)	--	--	--	1.5	1.5	1.6	2.2	3.1	4.1	5.0	5.8
30'	LL (plf)	--	--	--	--	69	103	147	202	268	348	443
	TL (plf)	--	--	--	--	126	192	278	386	517	676	790
	BRG (in.)	--	--	--	--	1.5	1.5	1.9	2.7	3.5	4.6	5.4
32'	LL (plf)	--	--	--	--	57	85	121	166	221	287	365
	TL (plf)	--	--	--	--	102	156	226	315	423	553	687
	BRG (in.)	--	--	--	--	1.5	1.5	1.7	2.3	3.1	4.0	5.0
34'	LL (plf)	--	--	--	--	--	71	101	139	184	239	304
	TL (plf)	--	--	--	--	--	128	186	259	349	457	586
	BRG (in.)	--	--	--	--	--	1.5	1.5	2.1	2.8	3.6	4.5
36'	LL (plf)	--	--	--	--	--	60	85	117	155	202	256
	TL (plf)	--	--	--	--	--	105	154	216	291	382	490
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.8	2.5	3.2	4.1
38'	LL (plf)	--	--	--	--	--	51	72	99	132	171	218
	TL (plf)	--	--	--	--	--	87	129	181	245	322	413
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.7	2.2	2.9	3.6
40'	LL (plf)	--	--	--	--	--	--	62	85	113	147	187
	TL (plf)	--	--	--	--	--	--	108	152	207	273	351
	BRG (in.)	--	--	--	--	--	--	1.5	1.5	2.0	2.6	3.3
42'	LL (plf)	--	--	--	--	--	--	54	73	98	127	161
	TL (plf)	--	--	--	--	--	--	91	129	176	233	300
	BRG (in.)	--	--	--	--	--	--	1.5	1.5	1.8	2.3	3.0
44'	LL (plf)	--	--	--	--	--	--	--	64	85	110	140
	TL (plf)	--	--	--	--	--	--	--	110	151	200	258
	BRG (in.)	--	--	--	--	--	--	--	1.5	1.6	2.1	2.7
46'	LL (plf)	--	--	--	--	--	--	--	56	74	97	123
	TL (plf)	--	--	--	--	--	--	--	94	129	172	223
	BRG (in.)	--	--	--	--	--	--	--	1.5	1.5	2.0	2.5
48'	LL (plf)	--	--	--	--	--	--	--	--	66	85	108
	TL (plf)	--	--	--	--	--	--	--	--	112	149	193
	BRG (in.)	--	--	--	--	--	--	--	--	1.5	1.8	2.3

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/480.
4. Tabulated total load (TL) is based on the deflection criterion of span/240.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 5½" Wide 30F-E/DF2 Glulam Floor Beams

 Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)	1653	1791	2974	3498							
	TL (plf)	2438	2572	3554	3816	4782	5808	6971	8301	9835	11627	13744
	BRG (in.)	2.7	2.9	4.0	4.3	5.4	6.5	7.8	9.3	11.0	13.0	15.4
10'	LL (plf)	846	917	1523	1791	2935						
	TL (plf)	1556	1641	2305	2569	3529	4218	4972	5802	6720	7740	8880
	BRG (in.)	2.2	2.3	3.2	3.6	5.0	5.9	7.0	8.2	9.4	10.9	12.5
12'	LL (plf)	490	531	881	1036	1698	2535	3609				
	TL (plf)	967	1048	1596	1779	2476	3237	3862	4457	5100	5797	6554
	BRG (in.)	1.6	1.8	2.7	3.0	4.2	5.5	6.5	7.5	8.6	9.8	11.1
14'	LL (plf)	308	334	555	653	1069	1596	2273	3118			
	TL (plf)	604	655	1094	1289	1814	2372	2984	3616	4107	4631	5191
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.7	5.9	7.1	8.1	9.1	10.2
16'	LL (plf)	207	224	372	437	716	1069	1523	2089	2780	3609	
	TL (plf)	400	434	728	858	1384	1795	2248	2749	3298	3853	4295
	BRG (in.)	1.5	1.5	1.7	2.0	3.1	4.1	5.1	6.2	7.4	8.7	9.7
18'	LL (plf)	145	157	261	307	503	751	1069	1467	1953	2535	3223
	TL (plf)	277	301	507	598	987	1397	1750	2141	2569	3033	3534
	BRG (in.)	1.5	1.5	1.5	1.5	2.5	3.6	4.5	5.5	6.5	7.7	9.0
20'	LL (plf)	106	115	190	224	367	548	780	1069	1423	1848	2350
	TL (plf)	199	216	365	431	714	1073	1398	1710	2053	2424	2825
	BRG (in.)	1.5	1.5	1.5	1.5	2.1	3.1	4.0	4.9	5.8	6.9	8.0
22'	LL (plf)	79	86	143	168	276	411	586	803	1069	1388	1765
	TL (plf)	146	159	270	320	532	800	1140	1395	1675	1979	2306
	BRG (in.)	1.5	1.5	1.5	1.5	1.7	2.5	3.6	4.4	5.2	6.2	7.2
24'	LL (plf)	61	66	110	130	212	317	451	619	824	1069	1360
	TL (plf)	110	119	205	243	405	611	877	1157	1390	1643	1915
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	4.0	4.8	5.6	6.5
26'	LL (plf)	--	52	87	102	167	249	355	487	648	841	1069
	TL (plf)	--	91	158	187	314	476	685	946	1170	1383	1613
	BRG (in.)	--	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.4	5.2	6.0
28'	LL (plf)	--	--	69	82	134	200	284	390	519	673	856
	TL (plf)	--	--	123	147	248	377	543	752	997	1179	1375
	BRG (in.)	--	--	1.5	1.5	1.5	1.6	2.2	3.1	4.0	4.7	5.5
30'	LL (plf)	--	--	56	66	109	162	231	317	422	548	696
	TL (plf)	--	--	97	116	198	302	437	606	813	1016	1185
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.9	2.7	3.5	4.4	5.1
32'	LL (plf)	--	--	--	55	90	134	190	261	348	451	574
	TL (plf)	--	--	--	93	160	245	356	494	664	869	1030
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.7	2.3	3.1	4.0	4.8
34'	LL (plf)	--	--	--	--	75	111	159	218	290	376	478
	TL (plf)	--	--	--	--	130	201	292	407	549	719	903
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	2.1	2.8	3.6	4.5
36'	LL (plf)	--	--	--	--	63	94	134	183	244	317	403
	TL (plf)	--	--	--	--	106	165	242	339	457	600	770
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.5	3.2	4.1
38'	LL (plf)	--	--	--	--	53	80	114	156	208	269	343
	TL (plf)	--	--	--	--	87	137	202	284	384	505	649
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.7	2.2	2.9	3.6
40'	LL (plf)	--	--	--	--	--	68	97	134	178	231	294
	TL (plf)	--	--	--	--	--	115	170	239	325	429	551
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	2.0	2.6	3.3
42'	LL (plf)	--	--	--	--	--	59	84	115	154	200	254
	TL (plf)	--	--	--	--	--	96	143	203	277	366	471
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.8	2.3	3.0
44'	LL (plf)	--	--	--	--	--	51	73	100	134	174	221
	TL (plf)	--	--	--	--	--	81	121	173	237	314	405
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.6	2.1	2.7
46'	LL (plf)	--	--	--	--	--	--	64	88	117	152	193
	TL (plf)	--	--	--	--	--	--	103	148	203	270	350
	BRG (in.)	--	--	--	--	--	--	1.5	1.5	1.5	2.0	2.5
48'	LL (plf)	--	--	--	--	--	--	56	77	103	134	170
	TL (plf)	--	--	--	--	--	--	88	127	175	234	304
	BRG (in.)	--	--	--	--	--	--	1.5	1.5	1.5	1.8	2.3

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/480.
4. Tabulated total load (TL) is based on the deflection criterion of span/240.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 7" Wide 30F-E/DF2 Glulam Floor Beams
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)	2104	2279	3785	4452							
	TL (plf)	3103	3274	4523	4857	6086	7392	8872	10565	12518	14797	17492
	BRG (in.)	2.7	2.9	4.0	4.3	5.4	6.5	7.8	9.3	11.0	13.0	15.4
10'	LL (plf)	1077	1167	1938	2279	3735						
	TL (plf)	1980	2089	2933	3269	4492	5368	6328	7385	8553	9851	11302
	BRG (in.)	2.2	2.3	3.2	3.6	5.0	5.9	7.0	8.2	9.4	10.9	12.5
12'	LL (plf)	623	675	1122	1319	2161	3226	4594				
	TL (plf)	1230	1334	2031	2264	3151	4103	4915	5672	6491	7377	8342
	BRG (in.)	1.6	1.8	2.7	3.0	4.2	5.4	6.5	7.5	8.6	9.8	11.1
14'	LL (plf)	393	425	706	831	1361	2032	2893	3968			
	TL (plf)	769	834	1393	1640	2294	2961	3707	4532	5227	5893	6606
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.6	5.8	7.0	8.1	9.1	10.2
16'	LL (plf)	263	285	473	556	912	1361	1938	2658	3538	4594	
	TL (plf)	510	553	926	1092	1727	2230	2793	3415	4096	4836	5466
	BRG (in.)	1.5	1.5	1.7	2.0	3.1	4.0	5.0	6.1	7.3	8.6	9.7
18'	LL (plf)	185	200	332	391	640	956	1361	1867	2485	3226	4102
	TL (plf)	353	383	645	761	1256	1735	2174	2659	3190	3767	4389
	BRG (in.)	1.5	1.5	1.5	1.5	2.5	3.5	4.4	5.3	6.4	7.5	8.8
20'	LL (plf)	135	146	242	285	467	697	992	1361	1812	2352	2990
	TL (plf)	253	275	465	549	909	1365	1736	2124	2549	3011	3509
	BRG (in.)	1.5	1.5	1.5	1.5	2.1	3.1	3.9	4.7	5.7	6.7	7.8
22'	LL (plf)	101	110	182	214	351	524	745	1023	1361	1767	2247
	TL (plf)	186	202	344	407	677	1019	1415	1732	2080	2457	2864
	BRG (in.)	1.5	1.5	1.5	1.5	1.7	2.5	3.5	4.3	5.1	6.0	7.0
24'	LL (plf)	78	84	140	165	270	403	574	788	1048	1361	1731
	TL (plf)	139	152	260	309	516	778	1117	1437	1726	2040	2378
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	3.9	4.7	5.5	6.4
26'	LL (plf)	61	66	110	130	212	317	452	620	825	1071	1361
	TL (plf)	106	116	201	238	400	606	871	1204	1453	1718	2003
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.3	5.0	5.9
28'	LL (plf)	--	53	88	104	170	254	362	496	660	857	1090
	TL (plf)	--	89	157	187	315	480	691	957	1238	1464	1708
	BRG (in.)	--	1.5	1.5	1.5	1.5	1.6	2.2	3.1	3.9	4.6	5.4
30'	LL (plf)	--	--	72	84	138	206	294	403	537	697	886
	TL (plf)	--	--	124	148	252	385	556	771	1035	1261	1471
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.9	2.7	3.5	4.3	5.0
32'	LL (plf)	--	--	59	70	114	170	242	332	442	574	730
	TL (plf)	--	--	98	118	203	312	453	629	846	1095	1279
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.7	2.3	3.1	4.0	4.7
34'	LL (plf)	--	--	--	58	95	142	202	277	369	479	609
	TL (plf)	--	--	--	95	165	255	372	519	698	915	1120
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	2.1	2.8	3.6	4.4
36'	LL (plf)	--	--	--	--	80	119	170	233	311	403	513
	TL (plf)	--	--	--	--	135	211	308	431	582	764	979
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.5	3.2	4.1
38'	LL (plf)	--	--	--	--	68	102	145	198	264	343	436
	TL (plf)	--	--	--	--	111	175	257	361	489	643	826
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.7	2.2	2.9	3.6
40'	LL (plf)	--	--	--	--	58	87	124	170	226	294	374
	TL (plf)	--	--	--	--	92	146	216	305	414	545	701
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
42'	LL (plf)	--	--	--	--	50	75	107	147	196	254	323
	TL (plf)	--	--	--	--	76	122	182	258	352	465	600
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.3	3.0
44'	LL (plf)	--	--	--	--	--	65	93	128	170	221	281
	TL (plf)	--	--	--	--	--	103	154	220	301	399	516
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.6	2.1	2.7
46'	LL (plf)	--	--	--	--	--	57	82	112	149	193	246
	TL (plf)	--	--	--	--	--	86	131	188	259	344	445
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.5
48'	LL (plf)	--	--	--	--	--	50	72	98	131	170	216
	TL (plf)	--	--	--	--	--	72	112	161	223	298	387
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.3

- Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
- Applicable to dry-use service conditions ($C_M = 1.0$).
- Tabulated live load (LL) is based on the deflection criterion of span/480.
- Tabulated total load (TL) is based on the deflection criterion of span/240.

- Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
- Selected beam size shall satisfy both live load and total load.
- "--" indicates the allowable load is smaller than 50 plf.
- Blank live load indicates the live load does not control.
- Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 3½" Wide 30F-E/DF2 Glulam Floor Beams (Non-Snow)
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)											
	TL (plf)	1941	2048	2829	3038	3807	4623	5549	6607	7829	9254	10938
	BRG (in.)	3.4	3.6	5.0	5.4	6.7	8.2	9.8	11.6	13.8	16.3	19.3
10'	LL (plf)	1077	1167									
	TL (plf)	1240	1308	1836	2046	2810	3359	3959	4620	5350	6162	7070
	BRG (in.)	2.7	2.9	4.1	4.5	6.2	7.4	8.7	10.2	11.8	13.6	15.6
12'	LL (plf)	623	675	1122	1319							
	TL (plf)	823	892	1272	1418	1973	2578	3076	3550	4061	4616	5219
	BRG (in.)	2.2	2.4	3.4	3.8	5.2	6.8	8.2	9.4	10.8	12.2	13.8
14'	LL (plf)	393	425	706	831	1361						
	TL (plf)	515	559	932	1039	1446	1891	2395	2881	3272	3689	4135
	BRG (in.)	1.6	1.7	2.9	3.2	4.5	5.9	7.4	8.9	10.1	11.4	12.8
16'	LL (plf)	263	285	473	556	912	1361					
	TL (plf)	342	371	621	731	1104	1444	1830	2261	2738	3070	3422
	BRG (in.)	1.5	1.5	2.2	2.6	3.9	5.1	6.5	8.0	9.7	10.9	12.1
18'	LL (plf)	185	200	332	391	640	956	1361				
	TL (plf)	238	258	433	511	841	1138	1442	1783	2144	2531	2918
	BRG (in.)	1.5	1.5	1.8	2.1	3.4	4.6	5.8	7.1	8.6	10.1	11.6
20'	LL (plf)	135	146	242	285	467	697	992	1361			
	TL (plf)	171	186	313	369	610	915	1165	1429	1714	2024	2358
	BRG (in.)	1.5	1.5	1.5	1.7	2.7	4.1	5.2	6.4	7.6	9.0	10.5
22'	LL (plf)	101	110	182	214	351	524	745	1023	1361		
	TL (plf)	127	138	233	275	455	684	953	1166	1400	1653	1926
	BRG (in.)	1.5	1.5	1.5	1.5	2.3	3.4	4.7	5.7	6.9	8.1	9.4
24'	LL (plf)	78	84	140	165	270	403	574	788	1048	1361	
	TL (plf)	96	104	177	209	348	524	750	969	1163	1374	1601
	BRG (in.)	1.5	1.5	1.5	1.5	1.9	2.8	4.0	5.2	6.2	7.4	8.6
26'	LL (plf)	61	66	110	130	212	317	452	620	825	1071	
	TL (plf)	74	80	137	162	271	409	586	808	980	1158	1350
	BRG (in.)	1.5	1.5	1.5	1.5	1.6	2.4	3.4	4.7	5.7	6.7	7.8
28'	LL (plf)	--	53	88	104	170	254	362	496	660	857	1090
	TL (plf)	--	62	108	128	214	324	466	644	836	988	1152
	BRG (in.)	--	1.5	1.5	1.5	1.5	2.1	3.0	4.1	5.3	6.2	7.2
30'	LL (plf)	--	--	72	84	138	206	294	403	537	697	886
	TL (plf)	--	--	86	102	172	261	376	520	696	852	993
	BRG (in.)	--	--	1.5	1.5	1.5	1.8	2.6	3.5	4.7	5.8	6.7
32'	LL (plf)	--	--	59	70	114	170	242	332	442	574	730
	TL (plf)	--	--	69	82	140	213	307	425	570	741	864
	BRG (in.)	--	--	1.5	1.5	1.5	1.6	2.3	3.1	4.1	5.4	6.2
34'	LL (plf)	--	--	--	58	95	142	202	277	369	479	609
	TL (plf)	--	--	--	67	114	175	253	352	472	617	758
	BRG (in.)	--	--	--	1.5	1.5	1.5	2.0	2.8	3.7	4.8	5.8
36'	LL (plf)	--	--	--	--	80	119	170	233	311	403	513
	TL (plf)	--	--	--	--	94	145	211	293	395	516	661
	BRG (in.)	--	--	--	--	1.5	1.5	1.8	2.5	3.3	4.3	5.4
38'	LL (plf)	--	--	--	--	68	102	145	198	264	343	436
	TL (plf)	--	--	--	--	78	121	177	247	333	436	558
	BRG (in.)	--	--	--	--	1.5	1.5	1.6	2.2	2.9	3.8	4.9
40'	LL (plf)	--	--	--	--	58	87	124	170	226	294	374
	TL (plf)	--	--	--	--	65	102	149	209	282	371	475
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	2.0	2.7	3.4	4.4
42'	LL (plf)	--	--	--	--	50	75	107	147	196	254	323
	TL (plf)	--	--	--	--	55	86	127	178	241	317	407
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.4	3.1	4.0
44'	LL (plf)	--	--	--	--	--	65	93	128	170	221	281
	TL (plf)	--	--	--	--	--	73	108	153	207	273	351
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.6	2.2	2.8	3.6
46'	LL (plf)	--	--	--	--	--	57	82	112	149	193	246
	TL (plf)	--	--	--	--	--	62	93	131	179	236	305
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	2.0	2.6	3.3
48'	LL (plf)	--	--	--	--	--	50	72	98	131	170	216
	TL (plf)	--	--	--	--	--	53	80	114	155	206	265
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.8	2.4	3.0

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/240.
4. Tabulated total load (TL) is based on the deflection criterion of span/180.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 5½" Wide 30F-E/DF2 Glulam Floor Beams (Non-Snow)
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)											
	TL (plf)	3051	3218	4446	4775	5982	7265	8720	10383	12302	14542	17189
	BRG (in.)	3.4	3.6	5.0	5.4	6.7	8.2	9.8	11.6	13.8	16.3	19.3
10'	LL (plf)	1693	1834									
	TL (plf)	1948	2055	2885	3215	4416	5278	6221	7260	8407	9683	11109
	BRG (in.)	2.7	2.9	4.1	4.5	6.2	7.4	8.7	10.2	11.8	13.6	15.6
12'	LL (plf)	980	1061	1762	2073							
	TL (plf)	1293	1402	1998	2228	3100	4052	4833	5578	6382	7254	8202
	BRG (in.)	2.2	2.4	3.4	3.8	5.2	6.8	8.2	9.4	10.8	12.2	13.8
14'	LL (plf)	617	668	1110	1305	2139						
	TL (plf)	810	878	1464	1632	2272	2971	3737	4527	5141	5797	6497
	BRG (in.)	1.6	1.7	2.9	3.2	4.5	5.9	7.4	8.9	10.1	11.4	12.8
16'	LL (plf)	413	448	744	874	1433	2139					
	TL (plf)	538	584	976	1149	1735	2250	2817	3444	4130	4825	5377
	BRG (in.)	1.5	1.5	2.2	2.6	3.9	5.1	6.4	7.8	9.3	10.9	12.1
18'	LL (plf)	290	314	522	614	1006	1502	2139				
	TL (plf)	374	406	681	802	1322	1752	2194	2683	3218	3800	4426
	BRG (in.)	1.5	1.5	1.8	2.1	3.4	4.5	5.6	6.8	8.2	9.6	11.2
20'	LL (plf)	212	229	381	448	734	1095	1559	2139			
	TL (plf)	269	292	492	580	959	1400	1754	2145	2573	3039	3541
	BRG (in.)	1.5	1.5	1.5	1.7	2.7	4.0	5.0	6.1	7.3	8.6	10.0
22'	LL (plf)	159	172	286	336	551	823	1171	1607			
	TL (plf)	199	216	366	432	715	1075	1431	1751	2101	2482	2892
	BRG (in.)	1.5	1.5	1.5	1.5	2.3	3.4	4.5	5.5	6.6	7.7	9.0
24'	LL (plf)	122	133	220	259	425	634	902	1238	1647		
	TL (plf)	150	164	278	329	547	823	1178	1454	1745	2062	2403
	BRG (in.)	1.5	1.5	1.5	1.5	1.9	2.8	4.0	5.0	6.0	7.0	8.2
26'	LL (plf)	96	104	173	204	334	498	710	974	1296	1682	
	TL (plf)	116	126	215	255	426	642	921	1225	1470	1737	2025
	BRG (in.)	1.5	1.5	1.5	1.5	1.6	2.4	3.4	4.6	5.5	6.4	7.5
28'	LL (plf)	77	84	139	163	267	399	568	779	1037	1347	1713
	TL (plf)	90	98	169	201	337	510	733	1011	1254	1482	1728
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	4.1	5.0	5.9	6.9
30'	LL (plf)	63	68	113	133	217	324	462	634	844	1095	1392
	TL (plf)	71	77	135	160	270	410	591	817	1081	1278	1490
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.7	5.5	6.4
32'	LL (plf)	52	56	93	109	179	267	381	522	695	902	1147
	TL (plf)	56	61	108	129	219	334	482	668	896	1112	1297
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.6	2.3	3.1	4.1	5.1	6.0
34'	LL (plf)	--	--	77	91	149	223	317	435	579	752	956
	TL (plf)	--	--	88	105	180	275	398	553	742	970	1137
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	2.0	2.8	3.7	4.8	5.6
36'	LL (plf)	--	--	65	77	126	188	267	367	488	634	806
	TL (plf)	--	--	71	86	148	228	331	461	620	812	1005
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.8	2.5	3.3	4.3	5.2
38'	LL (plf)	--	--	56	65	107	160	227	312	415	539	685
	TL (plf)	--	--	58	70	123	191	278	388	523	685	877
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.6	2.2	2.9	3.8	4.9
40'	LL (plf)	--	--	--	56	92	137	195	267	356	462	587
	TL (plf)	--	--	--	58	103	160	235	329	444	583	747
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	2.0	2.7	3.4	4.4
42'	LL (plf)	--	--	--	--	79	118	168	231	307	399	507
	TL (plf)	--	--	--	--	86	135	199	280	379	499	640
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.4	3.1	4.0
44'	LL (plf)	--	--	--	--	69	103	146	201	267	347	441
	TL (plf)	--	--	--	--	72	115	170	240	326	429	552
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.6	2.2	2.8	3.6
46'	LL (plf)	--	--	--	--	60	90	128	176	234	304	386
	TL (plf)	--	--	--	--	61	98	146	207	281	372	479
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
48'	LL (plf)	--	--	--	--	--	79	113	155	206	267	340
	TL (plf)	--	--	--	--	51	83	125	178	244	323	417
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.4	3.0

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/240.
4. Tabulated total load (TL) is based on the deflection criterion of span/180.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 7" Wide 30F-E/DF2 Glulam Floor Beams (Non-Snow)
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL(plf)											
	TL (plf)	3883	4096	5659	6077	7613	9247	11098	13215	15657	18507	21877
	BRG (in.)	3.4	3.6	5.0	5.4	6.7	8.2	9.8	11.6	13.8	16.3	19.3
10'	LL(plf)	2155	2334									
	TL (plf)	2479	2615	3671	4092	5621	6717	7918	9240	10700	12324	14139
	BRG (in.)	2.7	2.9	4.1	4.5	6.2	7.4	8.7	10.2	11.8	13.6	15.6
12'	LL(plf)	1247	1351	2243	2638							
	TL (plf)	1646	1784	2544	2835	3945	5136	6151	7099	8123	9232	10439
	BRG (in.)	2.2	2.4	3.4	3.8	5.2	6.8	8.2	9.4	10.8	12.2	13.8
14'	LL(plf)	785	851	1413	1661	2722						
	TL (plf)	1030	1117	1863	2077	2874	3708	4641	5674	6543	7377	8269
	BRG (in.)	1.6	1.7	2.9	3.2	4.5	5.7	7.2	8.8	10.1	11.4	12.8
16'	LL(plf)	526	570	946	1113	1824	2722					
	TL (plf)	685	743	1242	1463	2165	2794	3499	4278	5130	6056	6844
	BRG (in.)	1.5	1.5	2.2	2.6	3.9	5.0	6.2	7.6	9.1	10.7	12.1
18'	LL(plf)	369	400	665	782	1281	1912	2722				
	TL (plf)	476	517	866	1021	1683	2176	2725	3333	3998	4720	5498
	BRG (in.)	1.5	1.5	1.8	2.1	3.4	4.4	5.5	6.7	8.0	9.4	11.0
20'	LL(plf)	269	292	484	570	934	1394	1985				
	TL (plf)	343	372	626	739	1220	1738	2178	2664	3196	3774	4398
	BRG (in.)	1.5	1.5	1.5	1.7	2.7	3.9	4.9	5.9	7.1	8.4	9.8
22'	LL(plf)	202	219	364	428	702	1047	1491	2045			
	TL (plf)	253	275	465	550	911	1368	1777	2174	2609	3082	3592
	BRG (in.)	1.5	1.5	1.5	1.5	2.3	3.4	4.4	5.3	6.4	7.6	8.8
24'	LL(plf)	156	169	280	330	540	807	1148	1575	2097		
	TL (plf)	191	208	354	419	696	1047	1475	1805	2167	2560	2984
	BRG (in.)	1.5	1.5	1.5	1.5	1.9	2.8	4.0	4.9	5.8	6.9	8.0
26'	LL(plf)	123	133	221	259	425	634	903	1239	1649	2141	
	TL (plf)	147	160	274	325	542	817	1172	1520	1826	2158	2515
	BRG (in.)	1.5	1.5	1.5	1.5	1.6	2.4	3.4	4.4	5.3	6.3	7.3
28'	LL(plf)	98	106	177	208	340	508	723	992	1320	1714	
	TL (plf)	114	125	215	256	429	649	932	1287	1557	1840	2146
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	4.1	4.9	5.8	6.7
30'	LL(plf)	80	86	144	169	277	413	588	807	1074	1394	1772
	TL (plf)	90	98	171	204	344	522	752	1040	1342	1586	1850
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.6	5.4	6.3
32'	LL(plf)	66	71	118	139	228	340	484	665	885	1148	1460
	TL (plf)	71	78	138	164	279	425	614	851	1140	1380	1610
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.6	2.3	3.1	4.1	5.0	5.8
34'	LL(plf)	55	59	99	116	190	284	404	554	737	957	1217
	TL (plf)	57	62	112	134	229	350	507	703	944	1210	1412
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.8	3.7	4.7	5.4
36'	LL(plf)	--	--	83	98	160	239	340	467	621	807	1026
	TL (plf)	--	--	91	109	189	290	422	587	789	1033	1247
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.8	2.5	3.3	4.3	5.1
38'	LL(plf)	--	--	71	83	136	203	289	397	528	686	872
	TL (plf)	--	--	74	90	157	243	354	494	665	872	1108
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.6	2.2	2.9	3.8	4.8
40'	LL(plf)	--	--	61	71	117	174	248	340	453	588	748
	TL (plf)	--	--	61	74	131	204	299	418	565	741	951
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.5	2.0	2.7	3.4	4.4
42'	LL(plf)	--	--	--	--	101	150	214	294	391	508	646
	TL (plf)	--	--	--	61	110	172	254	356	483	635	815
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	1.8	2.4	3.1	4.0
44'	LL(plf)	--	--	--	--	88	131	186	256	340	442	562
	TL (plf)	--	--	--	50	92	146	217	305	415	546	703
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	1.6	2.2	2.8	3.6
46'	LL(plf)	--	--	--	--	77	115	163	224	298	387	492
	TL (plf)	--	--	--	--	77	124	186	263	358	473	609
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
48'	LL(plf)	--	--	--	--	--	101	144	197	262	340	433
	TL (plf)	--	--	--	--	65	106	159	227	310	411	531
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.4	3.0

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/240.
4. Tabulated total load (TL) is based on the deflection criterion of span/180.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 3½" Wide 30F-E/DF2 Glulam Floor Beams (Snow Load)
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)											
	TL (plf)	1785	1884	2602	2794	3501	4252	5104	6077	7201	8512	10061
	BRG (in.)	3.2	3.3	4.6	4.9	6.2	7.5	9.0	10.7	12.7	15.0	17.7
10'	LL (plf)	1077	1167									
	TL (plf)	1140	1202	1688	1881	2585	3089	3641	4249	4921	5667	6502
	BRG (in.)	2.5	2.7	3.7	4.2	5.7	6.8	8.0	9.4	10.9	12.5	14.3
12'	LL (plf)	623	675	1122								
	TL (plf)	789	832	1169	1303	1814	2371	2828	3264	3735	4245	4800
	BRG (in.)	2.1	2.2	3.1	3.5	4.8	6.3	7.5	8.7	9.9	11.3	12.7
14'	LL (plf)	393	425	706	831							
	TL (plf)	515	559	856	955	1329	1738	2202	2649	3008	3392	3802
	BRG (in.)	1.6	1.7	2.7	3.0	4.1	5.4	6.8	8.2	9.3	10.5	11.8
16'	LL (plf)	263	285	473	556	912						
	TL (plf)	342	371	621	729	1015	1327	1682	2079	2517	2823	3146
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.7	6.0	7.4	8.9	10.0	11.1
18'	LL (plf)	185	200	332	391	640	956					
	TL (plf)	238	258	433	511	799	1046	1326	1639	1971	2327	2683
	BRG (in.)	1.5	1.5	1.8	2.1	3.2	4.2	5.3	6.6	7.9	9.3	10.7
20'	LL (plf)	135	146	242	285	467	697	992				
	TL (plf)	171	186	313	369	610	844	1071	1313	1576	1861	2168
	BRG (in.)	1.5	1.5	1.5	1.7	2.7	3.8	4.8	5.9	7.0	8.3	9.6
22'	LL (plf)	101	110	182	214	351	524	745	1023			
	TL (plf)	127	138	233	275	455	684	876	1072	1286	1519	1770
	BRG (in.)	1.5	1.5	1.5	1.5	2.3	3.4	4.3	5.3	6.3	7.4	8.7
24'	LL (plf)	78	84	140	165	270	403	574	788	1048		
	TL (plf)	96	104	177	209	348	524	727	890	1068	1262	1471
	BRG (in.)	1.5	1.5	1.5	1.5	1.9	2.8	3.9	4.8	5.7	6.8	7.9
26'	LL (plf)	61	66	110	130	212	317	452	620	825		
	TL (plf)	74	80	137	162	271	409	586	749	900	1063	1240
	BRG (in.)	1.5	1.5	1.5	1.5	1.6	2.4	3.4	4.4	5.3	6.2	7.2
28'	LL (plf)	--	53	88	104	170	254	362	496	660	857	
	TL (plf)	--	62	108	128	214	324	466	639	767	907	1058
	BRG (in.)	--	1.5	1.5	1.5	1.5	2.1	3.0	4.0	4.8	5.7	6.7
30'	LL (plf)	--	--	72	84	138	206	294	403	537	697	886
	TL (plf)	--	--	86	102	172	261	376	520	661	782	912
	BRG (in.)	--	--	1.5	1.5	1.5	1.8	2.6	3.5	4.5	5.3	6.2
32'	LL (plf)	--	--	59	70	114	170	242	332	442	574	730
	TL (plf)	--	--	69	82	140	213	307	425	570	680	793
	BRG (in.)	--	--	1.5	1.5	1.5	1.6	2.3	3.1	4.1	4.9	5.7
34'	LL (plf)	--	--	--	58	95	142	202	277	369	479	609
	TL (plf)	--	--	--	67	114	175	253	352	472	596	696
	BRG (in.)	--	--	--	1.5	1.5	1.5	2.0	2.8	3.7	4.6	5.4
36'	LL (plf)	--	--	--	--	80	119	170	233	311	403	513
	TL (plf)	--	--	--	--	94	145	211	293	395	516	615
	BRG (in.)	--	--	--	--	1.5	1.5	1.8	2.5	3.3	4.3	5.0
38'	LL (plf)	--	--	--	--	68	102	145	198	264	343	436
	TL (plf)	--	--	--	--	78	121	177	247	333	436	546
	BRG (in.)	--	--	--	--	1.5	1.5	1.6	2.2	2.9	3.8	4.8
40'	LL (plf)	--	--	--	--	58	87	124	170	226	294	374
	TL (plf)	--	--	--	--	65	102	149	209	282	371	475
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	2.0	2.7	3.4	4.4
42'	LL (plf)	--	--	--	--	50	75	107	147	196	254	323
	TL (plf)	--	--	--	--	55	86	127	178	241	317	407
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.4	3.1	4.0
44'	LL (plf)	--	--	--	--	--	65	93	128	170	221	281
	TL (plf)	--	--	--	--	--	73	108	153	207	273	351
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.6	2.2	2.8	3.6
46'	LL (plf)	--	--	--	--	--	57	82	112	149	193	246
	TL (plf)	--	--	--	--	--	62	93	131	179	236	305
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	2.0	2.6	3.3
48'	LL (plf)	--	--	--	--	--	50	72	98	131	170	216
	TL (plf)	--	--	--	--	--	53	80	114	155	206	265
	BRG (in.)	--	--	--	--	--	1.5	1.5	1.5	1.8	2.4	3.0

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/240.
4. Tabulated total load (TL) is based on the deflection criterion of span/180.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 5½" Wide 30F-E/DF2 Glulam Floor Beams (Snow Load)
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)											
	TL (plf)	2806	2960	4089	4391	5502	6682	8020	9550	11315	13376	15811
	BRG (in.)	3.2	3.3	4.6	4.9	6.2	7.5	9.0	10.7	12.7	15.0	17.7
10'	LL (plf)	1693	1834									
	TL (plf)	1791	1890	2653	2957	4061	4854	5722	6677	7732	8906	10218
	BRG (in.)	2.5	2.7	3.7	4.2	5.7	6.8	8.0	9.4	10.9	12.5	14.3
12'	LL (plf)	980	1061	1762								
	TL (plf)	1240	1308	1837	2048	2850	3726	4445	5129	5869	6671	7543
	BRG (in.)	2.1	2.2	3.1	3.5	4.8	6.3	7.5	8.7	9.9	11.3	12.7
14'	LL (plf)	617	668	1110	1305							
	TL (plf)	810	878	1346	1500	2089	2731	3436	4162	4727	5330	5975
	BRG (in.)	1.6	1.7	2.7	3.0	4.1	5.4	6.8	8.2	9.3	10.5	11.8
16'	LL (plf)	413	448	744	874	1433						
	TL (plf)	538	584	976	1145	1595	2068	2589	3166	3797	4436	4944
	BRG (in.)	1.5	1.5	2.2	2.6	3.6	4.7	5.9	7.1	8.6	10.0	11.1
18'	LL (plf)	290	314	522	614	1006	1502					
	TL (plf)	374	406	681	802	1247	1610	2016	2466	2958	3493	4069
	BRG (in.)	1.5	1.5	1.8	2.1	3.2	4.1	5.1	6.3	7.5	8.9	10.3
20'	LL (plf)	212	229	381	448	734	1095	1559				
	TL (plf)	269	292	492	580	959	1286	1611	1971	2365	2793	3255
	BRG (in.)	1.5	1.5	1.5	1.7	2.7	3.7	4.6	5.6	6.7	7.9	9.2
22'	LL (plf)	159	172	286	336	551	823	1171	1607			
	TL (plf)	199	216	366	432	715	1049	1314	1608	1931	2280	2658
	BRG (in.)	1.5	1.5	1.5	1.5	2.3	3.3	4.1	5.0	6.0	7.1	8.3
24'	LL (plf)	122	133	220	259	425	634	902	1238			
	TL (plf)	150	164	278	329	547	823	1091	1335	1603	1894	2208
	BRG (in.)	1.5	1.5	1.5	1.5	1.9	2.8	3.7	4.6	5.5	6.5	7.5
26'	LL (plf)	96	104	173	204	334	498	710	974	1296		
	TL (plf)	116	126	215	255	426	642	918	1124	1350	1596	1861
	BRG (in.)	1.5	1.5	1.5	1.5	1.6	2.4	3.4	4.2	5.0	5.9	6.9
28'	LL (plf)	77	84	139	163	267	399	568	779	1037	1347	
	TL (plf)	90	98	169	201	337	510	733	958	1151	1361	1587
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	3.9	4.6	5.5	6.4
30'	LL (plf)	63	68	113	133	217	324	462	634	844	1095	
	TL (plf)	71	77	135	160	270	410	591	817	992	1173	1368
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.3	5.1	5.9
32'	LL (plf)	52	56	93	109	179	267	381	522	695	902	1147
	TL (plf)	56	61	108	129	219	334	482	668	862	1020	1190
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.6	2.3	3.1	4.0	4.7	5.5
34'	LL (plf)	--	--	77	91	149	223	317	435	579	752	956
	TL (plf)	--	--	88	105	180	275	398	553	742	894	1044
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	2.0	2.8	3.7	4.4	5.1
36'	LL (plf)	--	--	65	77	126	188	267	367	488	634	806
	TL (plf)	--	--	71	86	148	228	331	461	620	789	921
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.8	2.5	3.3	4.1	4.8
38'	LL (plf)	--	--	56	65	107	160	227	312	415	539	685
	TL (plf)	--	--	58	70	123	191	278	388	523	685	819
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.6	2.2	2.9	3.8	4.5
40'	LL (plf)	--	--	--	56	92	137	195	267	356	462	587
	TL (plf)	--	--	--	58	103	160	235	329	444	583	731
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	2.0	2.7	3.4	4.3
42'	LL (plf)	--	--	--	--	79	118	168	231	307	399	507
	TL (plf)	--	--	--	--	86	135	199	280	379	499	640
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.8	2.4	3.1	4.0
44'	LL (plf)	--	--	--	--	69	103	146	201	267	347	441
	TL (plf)	--	--	--	--	72	115	170	240	326	429	552
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.6	2.2	2.8	3.6
46'	LL (plf)	--	--	--	--	60	90	128	176	234	304	386
	TL (plf)	--	--	--	--	61	98	146	207	281	372	479
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
48'	LL (plf)	--	--	--	--	--	79	113	155	206	267	340
	TL (plf)	--	--	--	--	51	83	125	178	244	323	417
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.4	3.0

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/240.
4. Tabulated total load (TL) is based on the deflection criterion of span/180.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.

Allowable Load for 7" Wide 30F-E/DF2 Glulam Floor Beams (Snow Load)
Simple Span, $F_b = 3,000$ psi, $E = 2.1 \times 10^6$ psi, $F_v = 265$ psi ($F_v = 255$ psi for 9¼" beam depth)

Recommended minimum bearing 3½"

Span	Depth	9¼"	9½"	11¼"	11½"	14"	16"	18"	20"	22"	24"	26"
8'	LL (plf)											
	TL (plf)	3571	3767	5204	5589	7002	8505	10208	12155	14401	17023	20123
	BRG (in.)	3.2	3.3	4.6	4.9	6.2	7.5	9.0	10.7	12.7	15.0	17.7
10'	LL (plf)	2155	2334									
	TL (plf)	2280	2405	3376	3763	5169	6177	7282	8498	9841	11335	13004
	BRG (in.)	2.5	2.7	3.7	4.2	5.7	6.8	8.0	9.4	10.9	12.5	14.3
12'	LL (plf)	1247	1351	2243								
	TL (plf)	1578	1665	2338	2607	3627	4723	5657	6528	7470	8490	9600
	BRG (in.)	2.1	2.2	3.1	3.5	4.8	6.3	7.5	8.7	9.9	11.3	12.7
14'	LL (plf)	785	851	1413	1661							
	TL (plf)	1030	1117	1713	1910	2642	3409	4268	5217	6017	6784	7604
	BRG (in.)	1.6	1.7	2.7	3.0	4.1	5.3	6.6	8.1	9.3	10.5	11.8
16'	LL (plf)	526	570	946	1113	1824						
	TL (plf)	685	743	1242	1453	1990	2568	3216	3933	4717	5568	6293
	BRG (in.)	1.5	1.5	2.2	2.6	3.5	4.6	5.7	7.0	8.4	9.9	11.1
18'	LL (plf)	369	400	665	782	1281	1912					
	TL (plf)	476	517	866	1021	1549	1999	2504	3063	3675	4339	5055
	BRG (in.)	1.5	1.5	1.8	2.1	3.1	4.0	5.0	6.1	7.3	8.7	10.1
20'	LL (plf)	269	292	484	570	934	1394	1985				
	TL (plf)	343	372	626	739	1220	1597	2001	2448	2938	3469	4042
	BRG (in.)	1.5	1.5	1.5	1.7	2.7	3.6	4.5	5.5	6.5	7.7	9.0
22'	LL (plf)	202	219	364	428	702	1047	1491				
	TL (plf)	253	275	465	550	911	1302	1632	1998	2398	2832	3301
	BRG (in.)	1.5	1.5	1.5	1.5	2.3	3.2	4.0	4.9	5.9	6.9	8.1
24'	LL (plf)	156	169	280	330	540	807	1148	1575			
	TL (plf)	191	208	354	419	696	1047	1354	1658	1991	2352	2742
	BRG (in.)	1.5	1.5	1.5	1.5	1.9	2.8	3.7	4.5	5.4	6.3	7.4
26'	LL (plf)	123	133	221	259	425	634	903	1239	1649		
	TL (plf)	147	160	274	325	542	817	1140	1396	1677	1982	2310
	BRG (in.)	1.5	1.5	1.5	1.5	1.6	2.4	3.3	4.1	4.9	5.8	6.7
28'	LL (plf)	98	106	177	208	340	508	723	992	1320		
	TL (plf)	114	125	215	256	429	649	932	1190	1429	1690	1971
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	2.1	3.0	3.8	4.5	5.3	6.2
30'	LL (plf)	80	86	144	169	277	413	588	807	1074	1394	
	TL (plf)	90	98	171	204	344	522	752	1024	1231	1456	1699
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.8	2.6	3.5	4.2	4.9	5.8
32'	LL (plf)	66	71	118	139	228	340	484	665	885	1148	1460
	TL (plf)	71	78	138	164	279	425	614	851	1070	1266	1478
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.6	2.3	3.1	3.9	4.6	5.4
34'	LL (plf)	55	59	99	116	190	284	404	554	737	957	1217
	TL (plf)	57	62	112	134	229	350	507	703	938	1110	1295
	BRG (in.)	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.8	3.6	4.3	5.0
36'	LL (plf)	--	--	83	98	160	239	340	467	621	807	1026
	TL (plf)	--	--	91	109	189	290	422	587	789	979	1144
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.8	2.5	3.3	4.0	4.7
38'	LL (plf)	--	--	71	83	136	203	289	397	528	686	872
	TL (plf)	--	--	74	90	157	243	354	494	665	870	1016
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.6	2.2	2.9	3.8	4.4
40'	LL (plf)	--	--	61	71	117	174	248	340	453	588	748
	TL (plf)	--	--	61	74	131	204	299	418	565	741	908
	BRG (in.)	--	--	1.5	1.5	1.5	1.5	1.5	2.0	2.7	3.4	4.2
42'	LL (plf)	--	--	--	--	101	150	214	294	391	508	646
	TL (plf)	--	--	--	61	110	172	254	356	483	635	815
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	1.8	2.4	3.1	4.0
44'	LL (plf)	--	--	--	--	88	131	186	256	340	442	562
	TL (plf)	--	--	--	50	92	146	217	305	415	546	703
	BRG (in.)	--	--	--	1.5	1.5	1.5	1.5	1.6	2.2	2.8	3.6
46'	LL (plf)	--	--	--	--	77	115	163	224	298	387	492
	TL (plf)	--	--	--	--	77	124	186	263	358	473	609
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	2.0	2.6	3.3
48'	LL (plf)	--	--	--	--	--	101	144	197	262	340	433
	TL (plf)	--	--	--	--	65	106	159	227	310	411	531
	BRG (in.)	--	--	--	--	1.5	1.5	1.5	1.5	1.8	2.4	3.0

1. Applicable to simply-supported beam with sufficient bracing to avoid lateral buckling ($C_L = 1.0$).
2. Applicable to dry-use service conditions ($C_M = 1.0$).
3. Tabulated live load (LL) is based on the deflection criterion of span/240.
4. Tabulated total load (TL) is based on the deflection criterion of span/180.

5. Tabulated total load (TL) is in addition to beam weight (assumed 36.5 pcf).
6. Selected beam size shall satisfy both live load and total load.
7. "--" indicates the allowable load is smaller than 50 plf.
8. Blank live load indicates the live load does not control.
9. Bearing "BRG" is in inches and is calculated based on the total load including the beam weight.