



Rosboro
TREATED X BEAM
 When You Need It To Last

Allowable Load (plf) for 3-1/2-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)										
		6	7 1/2	9	9 1/2	10 1/2	11 7/8	12	13 1/2	14	15	16
6	Simple	928	1452	2092	2332	2849	3642	3700	4441	4710	5287	5922
	Multiple	714	1118	1611	1796	2194	2650	2688	3169	3339	3697	4080
	Min. Bearing	1.5 / 3.0	1.9 / 3.7	2.8 / 5.3	3.1 / 5.9	3.8 / 7.2	4.8 / 8.7	4.9 / 8.9	5.9 / 10.4	6.2 / 11.0	7.0 / 12.2	7.8 / 13.5
8	Simple	487	814	1174	1308	1599	2046	2090	2646	2846	3268	3696
	Multiple	400	626	903	1006	1230	1575	1609	2037	2191	2461	2685
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	2.1 / 4.0	2.3 / 4.4	2.8 / 5.4	3.6 / 6.9	3.7 / 7.1	4.7 / 9.0	5.0 / 9.6	5.7 / 10.8	6.5 / 11.8
10	Simple	247	486	748	834	1020	1306	1334	1690	1817	2087	2376
	Multiple	254	398	575	641	784	1004	1026	1300	1398	1606	1828
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.6 / 3.2	1.8 / 3.5	2.2 / 4.3	2.9 / 5.5	2.9 / 5.6	3.7 / 7.1	4.0 / 7.7	4.6 / 8.8	5.2 / 10.0
12	Simple	141	278	485	571	706	904	923	1170	1258	1446	1646
	Multiple	175	275	397	443	542	694	709	899	967	1111	1265
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 3.6	2.4 / 4.6	2.4 / 4.7	3.1 / 5.9	3.3 / 6.4	3.8 / 7.3	4.3 / 8.3
14	Simple	87	173	302	356	483	661	676	856	921	1059	1205
	Multiple	116	200	290	323	396	508	518	657	708	813	926
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	2.0 / 3.9	2.1 / 4.0	2.6 / 5.1	2.8 / 5.4	3.3 / 6.3	3.7 / 7.1
16	Simple	56	114	200	236	321	467	482	653	703	808	920
	Multiple	76	152	220	246	301	386	394	501	539	620	706
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.4	1.7 / 3.5	2.3 / 4.4	2.5 / 4.7	2.8 / 5.4	3.2 / 6.2
18	Simple	--	78	138	163	223	325	335	481	537	635	724
	Multiple	--	105	172	192	236	303	310	393	423	487	555
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.9 / 3.9	2.1 / 4.2	2.5 / 4.8	2.9 / 5.5
20	Simple	--	55	99	117	160	234	242	347	388	479	584
	Multiple	--	75	132	154	189	244	249	316	341	392	447
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 3.7	2.1 / 4.3	2.6 / 4.9
22	Simple	--	--	72	86	118	173	179	258	289	357	435
	Multiple	--	--	97	115	155	200	204	259	279	322	367
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.4	1.7 / 3.9	2.1 / 4.4
24	Simple	--	--	54	64	89	131	136	196	220	272	332
	Multiple	--	--	73	87	120	166	170	216	233	268	306
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.5	1.8 / 4.0
26	Simple	--	--	--	49	68	101	104	152	170	211	258
	Multiple	--	--	--	67	92	136	141	182	197	227	259
	Min. Bearing	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	1.5 / 3.7
28	Simple	--	--	--	--	53	79	82	119	134	167	204
	Multiple	--	--	--	--	72	107	111	156	168	194	221
	Min. Bearing	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4
30	Simple	--	--	--	--	--	62	64	95	107	133	163
	Multiple	--	--	--	--	--	85	88	128	144	167	191
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1
32	Simple	--	--	--	--	--	50	51	76	86	107	132
	Multiple	--	--	--	--	--	68	71	104	117	145	166
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
34	Simple	--	--	--	--	--	--	--	62	70	87	108
	Multiple	--	--	--	--	--	--	--	85	95	119	146
	Min. Bearing	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
36	Simple	--	--	--	--	--	--	--	50	57	72	89
	Multiple	--	--	--	--	--	--	--	69	78	98	121
	Min. Bearing	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
38	Simple	--	--	--	--	--	--	--	--	46	59	73
	Multiple	--	--	--	--	--	--	--	--	65	82	101
	Min. Bearing	--	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
40	Simple	--	--	--	--	--	--	--	--	--	49	61
	Multiple	--	--	--	--	--	--	--	--	--	68	85
	Min. Bearing	--	--	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Allowable Load (plf) for 3-1/2-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)									
		16 1/2	18	19 1/2	21	22 1/2	24	25 1/2	27	28 1/2	30
6	Simple	6264	7405	8753	10370	12348	14820	16837	18877	21034	23308
	Multiple	4282	4931	5658	6475	7401	8460	9681	11107	12792	14814
	Min. Bearing	8.3 / 14.1	9.8 / 16.3	11.5 / 18.7	13.7 / 21.3	16.3 / 24.4	19.5 / 27.9	22.2 / 31.9	24.9 / 36.6	27.7 / 42.2	30.7 / 48.8
8	Simple	3873	4437	5060	5753	6528	7400	8388	9517	10820	12341
	Multiple	2800	3165	3556	3978	4433	4926	5463	6048	6689	7394
	Min. Bearing	6.8 / 12.3	7.8 / 13.9	8.9 / 15.6	10.1 / 17.5	11.5 / 19.5	13.0 / 21.7	14.7 / 24.0	16.7 / 26.6	19.0 / 29.4	21.7 / 32.5
10	Simple	2527	3009	3532	3978	4433	4926	5463	6048	6689	7394
	Multiple	1945	2316	2590	2868	3161	3471	3801	4151	4523	4921
	Min. Bearing	5.6 / 10.7	6.6 / 12.7	7.8 / 14.2	8.7 / 15.8	9.7 / 17.4	10.8 / 19.1	12.0 / 20.9	13.3 / 22.8	14.7 / 24.9	16.3 / 27.0
12	Simple	1751	2085	2448	2840	3262	3690	4047	4429	4837	5274
	Multiple	1346	1603	1883	2185	2454	2678	2912	3157	3414	3684
	Min. Bearing	4.6 / 8.9	5.5 / 10.6	6.5 / 12.4	7.5 / 14.4	8.6 / 16.2	9.7 / 17.7	10.7 / 19.2	11.7 / 20.8	12.8 / 22.5	13.9 / 24.3
14	Simple	1282	1528	1794	2082	2392	2722	3075	3440	3786	4097
	Multiple	985	1174	1379	1601	1839	2094	2358	2545	2740	2942
	Min. Bearing	3.9 / 7.6	4.7 / 9.0	5.5 / 10.6	6.4 / 12.3	7.4 / 14.1	8.4 / 16.1	9.5 / 18.1	10.6 / 19.6	11.6 / 21.1	12.6 / 22.6
16	Simple	979	1166	1370	1590	1827	2071	2325	2593	2875	3171
	Multiple	751	895	1052	1221	1404	1598	1806	2026	2258	2448
	Min. Bearing	3.4 / 6.6	4.1 / 7.9	4.8 / 9.2	5.6 / 10.7	6.4 / 12.3	7.3 / 14.1	8.2 / 15.9	9.1 / 17.8	10.1 / 19.9	11.1 / 21.5
18	Simple	770	918	1079	1249	1426	1613	1811	2020	2240	2470
	Multiple	590	704	828	961	1105	1259	1422	1596	1779	1973
	Min. Bearing	3.0 / 5.8	3.6 / 7.0	4.3 / 8.2	4.9 / 9.5	5.6 / 10.9	6.4 / 12.4	7.2 / 14.1	8.0 / 15.8	8.9 / 17.6	9.8 / 19.5
20	Simple	621	741	866	998	1139	1289	1447	1614	1790	1975
	Multiple	476	567	667	775	891	1016	1148	1288	1437	1593
	Min. Bearing	2.7 / 5.2	3.3 / 6.2	3.8 / 7.3	4.4 / 8.5	5.0 / 9.8	5.7 / 11.2	6.4 / 12.6	7.1 / 14.2	7.9 / 15.8	8.7 / 17.5
22	Simple	478	605	706	814	929	1051	1181	1317	1461	1612
	Multiple	391	466	549	638	733	836	945	1061	1183	1312
	Min. Bearing	2.3 / 4.7	2.9 / 5.6	3.4 / 6.6	3.9 / 7.7	4.5 / 8.9	5.1 / 10.1	5.7 / 11.4	6.4 / 12.8	7.1 / 14.3	7.8 / 15.9
24	Simple	365	477	585	675	771	872	980	1094	1213	1339
	Multiple	326	389	458	533	613	699	790	888	990	1099
	Min. Bearing	1.9 / 4.3	2.5 / 5.1	3.1 / 6.0	3.6 / 7.0	4.1 / 8.1	4.6 / 9.2	5.2 / 10.4	5.8 / 11.7	6.4 / 13.1	7.1 / 14.5
26	Simple	284	372	476	568	648	734	825	921	1022	1127
	Multiple	276	330	388	451	520	593	670	753	840	927
	Min. Bearing	1.6 / 3.9	2.1 / 4.7	2.7 / 5.5	3.2 / 6.4	3.7 / 7.4	4.2 / 8.5	4.7 / 9.6	5.3 / 10.8	5.8 / 12.0	6.4 / 13.2
28	Simple	225	295	377	474	552	625	703	785	871	961
	Multiple	236	282	332	387	445	508	575	644	715	790
	Min. Bearing	1.5 / 3.6	1.8 / 4.3	2.3 / 5.1	2.9 / 6.0	3.4 / 6.9	3.8 / 7.8	4.3 / 8.8	4.8 / 9.9	5.4 / 11.0	5.9 / 12.1
30	Simple	180	237	304	382	473	538	605	676	750	828
	Multiple	204	244	287	335	386	440	496	554	616	680
	Min. Bearing	1.5 / 3.4	1.6 / 4.0	2.0 / 4.7	2.5 / 5.5	3.1 / 6.4	3.5 / 7.3	4.0 / 8.2	4.5 / 9.1	4.9 / 10.1	5.5 / 11.2
32	Simple	146	192	247	312	386	467	526	587	652	720
	Multiple	177	212	251	292	337	383	431	481	534	590
	Min. Bearing	1.5 / 3.1	1.5 / 3.7	1.7 / 4.4	2.2 / 5.1	2.7 / 5.9	3.3 / 6.7	3.7 / 7.6	4.1 / 8.5	4.6 / 9.4	5.1 / 10.4
34	Simple	119	158	204	257	319	390	460	514	571	631
	Multiple	155	186	220	257	295	334	377	421	468	517
	Min. Bearing	1.5 / 3.0	1.5 / 3.5	1.5 / 4.1	1.9 / 4.8	2.4 / 5.5	2.9 / 6.2	3.4 / 7.0	3.8 / 7.9	4.3 / 8.7	4.7 / 9.7
36	Simple	98	131	169	214	266	325	393	454	504	557
	Multiple	134	165	194	226	259	294	331	371	412	455
	Min. Bearing	1.5 / 3.0	1.5 / 3.3	1.5 / 3.8	1.7 / 4.5	2.1 / 5.1	2.6 / 5.8	3.1 / 6.6	3.6 / 7.3	4.0 / 8.2	4.4 / 9.0
38	Simple	81	109	141	179	223	274	331	396	447	494
	Multiple	112	146	173	200	229	261	294	328	365	404
	Min. Bearing	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	1.5 / 4.2	1.9 / 4.8	2.3 / 5.4	2.8 / 6.1	3.3 / 6.9	3.7 / 7.6	4.1 / 8.4
40	Simple	68	91	119	151	189	232	281	336	398	441
	Multiple	94	125	153	178	204	232	261	293	325	360
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	1.5 / 3.9	1.7 / 4.5	2.0 / 5.1	2.5 / 5.7	3.0 / 6.4	3.5 / 7.2	3.9 / 7.9

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Allowable Load (plf) for 5-1/2-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)										
		6	7 1/2	9	9 1/2	10 1/2	11 7/8	12	13 1/2	14	15	16
6	Simple	1459	2282	3288	3664	4478	5724	5814	6978	7401	8309	9307
	Multiple	1123	1756	2532	2822	3448	4164	4224	4979	5247	5810	6412
	Min. Bearing	1.5 / 3.0	1.9 / 3.7	2.8 / 5.3	3.1 / 5.9	3.8 / 7.2	4.8 / 8.7	4.9 / 8.9	5.9 / 10.4	6.2 / 11.0	7.0 / 12.2	7.8 / 13.5
8	Simple	765	1279	1844	2056	2513	3216	3284	4159	4473	5136	5809
	Multiple	628	984	1419	1582	1934	2475	2528	3201	3444	3867	4219
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	2.1 / 4.0	2.3 / 4.4	2.8 / 5.4	3.6 / 6.9	3.7 / 7.1	4.7 / 9.0	5.0 / 9.6	5.7 / 10.8	6.5 / 11.8
10	Simple	388	763	1176	1311	1603	2052	2096	2655	2856	3280	3733
	Multiple	399	626	904	1008	1232	1578	1612	2042	2197	2524	2873
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.6 / 3.2	1.8 / 3.5	2.2 / 4.3	2.9 / 5.5	2.9 / 5.6	3.7 / 7.1	4.0 / 7.7	4.6 / 8.8	5.2 / 10.0
12	Simple	221	438	761	897	1109	1420	1451	1838	1978	2272	2586
	Multiple	275	432	624	696	852	1091	1115	1413	1520	1746	1988
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 3.6	2.4 / 4.6	2.4 / 4.7	3.1 / 5.9	3.3 / 6.4	3.8 / 7.3	4.3 / 8.3
14	Simple	136	272	475	560	759	1039	1062	1346	1448	1664	1894
	Multiple	182	314	455	508	622	798	815	1033	1112	1278	1455
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	2.0 / 3.9	2.1 / 4.0	2.6 / 5.1	2.8 / 5.4	3.3 / 6.3	3.7 / 7.1
16	Simple	89	179	314	371	504	734	757	1026	1104	1266	1433
	Multiple	119	238	346	386	473	607	620	787	847	974	1109
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.4	1.7 / 3.5	2.3 / 4.4	2.5 / 4.7	2.8 / 5.4	3.2 / 6.2
18	Simple	60	123	217	257	350	511	527	755	844	984	1114
	Multiple	81	164	271	302	371	476	486	618	665	765	872
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.9 / 3.9	2.1 / 4.2	2.5 / 4.8	2.8 / 5.5
20	Simple	--	87	155	184	251	368	380	546	610	753	889
	Multiple	--	117	208	242	298	383	391	497	535	616	702
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 3.7	2.1 / 4.3	2.5 / 4.9
22	Simple	--	63	113	135	185	272	281	406	454	561	684
	Multiple	--	86	153	181	243	314	320	408	439	506	577
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.4	1.7 / 3.9	2.1 / 4.4
24	Simple	--	46	85	101	139	206	213	308	345	428	522
	Multiple	--	64	115	137	188	261	267	340	366	422	481
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.5	1.8 / 4.0
26	Simple	--	--	64	77	107	159	164	239	268	332	406
	Multiple	--	--	88	105	145	214	221	287	309	356	407
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	1.5 / 3.7
28	Simple	--	--	49	59	83	124	128	187	210	262	321
	Multiple	--	--	68	81	113	168	174	245	264	304	348
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4
30	Simple	--	--	--	46	65	98	101	149	168	209	257
	Multiple	--	--	--	64	89	134	138	202	226	263	299
	Min. Bearing	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1
32	Simple	--	--	--	--	51	78	81	120	135	169	208
	Multiple	--	--	--	--	71	107	111	163	183	228	259
	Min. Bearing	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
34	Simple	--	--	--	--	--	62	65	97	109	137	170
	Multiple	--	--	--	--	--	87	90	133	150	187	225
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
36	Simple	--	--	--	--	--	50	52	79	89	113	140
	Multiple	--	--	--	--	--	71	73	109	123	154	190
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
38	Simple	--	--	--	--	--	--	--	64	73	93	115
	Multiple	--	--	--	--	--	--	--	90	102	128	159
	Min. Bearing	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
40	Simple	--	--	--	--	--	--	--	52	60	77	96
	Multiple	--	--	--	--	--	--	--	75	85	107	133
	Min. Bearing	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Allowable Load (plf) for 5-1/2-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)									
		16 1/2	18	19 1/2	21	22 1/2	24	25 1/2	27	28 1/2	30
6	Simple	9844	11636	13754	16296	19403	23288	26458	29664	33054	36627
	Multiple	6728	7749	8890	10174	11630	13294	15214	17454	20102	23280
	Min. Bearing	8.3 / 14.1	9.8 / 16.3	11.5 / 18.7	13.7 / 21.3	16.3 / 24.4	19.5 / 27.9	22.2 / 31.9	24.9 / 36.6	27.7 / 42.2	30.7 / 48.8
8	Simple	6086	6972	7952	9041	10258	11628	13181	14955	17003	19393
	Multiple	4401	4973	5588	6250	6966	7741	8584	9504	10511	11620
	Min. Bearing	6.8 / 12.3	7.8 / 13.9	8.9 / 15.6	10.1 / 17.5	11.5 / 19.5	13.0 / 21.7	14.7 / 24.0	16.7 / 26.6	19.0 / 29.4	21.7 / 32.5
10	Simple	3971	4728	5551	6250	6966	7741	8584	9504	10511	11620
	Multiple	3056	3639	4071	4506	4967	5455	5973	6523	7108	7733
	Min. Bearing	5.6 / 10.7	6.6 / 12.7	7.8 / 14.2	8.7 / 15.8	9.7 / 17.4	10.8 / 19.1	12.0 / 20.9	13.3 / 22.8	14.7 / 24.9	16.3 / 27.0
12	Simple	2751	3276	3847	4432	5055	5716	6360	6960	7601	8288
	Multiple	2115	2520	2959	3434	3857	4208	4576	4961	5365	5790
	Min. Bearing	4.6 / 8.9	5.5 / 10.6	6.5 / 12.4	7.4 / 14.4	8.5 / 16.2	9.6 / 17.7	10.7 / 19.2	11.7 / 20.8	12.8 / 22.5	13.9 / 24.3
14	Simple	2015	2383	2777	3199	3649	4126	4632	5165	5726	6314
	Multiple	1548	1845	2167	2516	2890	3290	3706	4000	4306	4624
	Min. Bearing	3.9 / 7.6	4.7 / 9.0	5.4 / 10.6	6.3 / 12.3	7.1 / 14.1	8.1 / 16.1	9.1 / 18.1	10.1 / 19.6	11.2 / 21.1	12.4 / 22.6
16	Simple	1520	1795	2091	2410	2749	3110	3491	3893	4317	4760
	Multiple	1180	1407	1653	1919	2206	2512	2838	3183	3549	3847
	Min. Bearing	3.4 / 6.6	4.0 / 7.9	4.7 / 9.2	5.4 / 10.7	6.2 / 12.3	7.0 / 14.1	7.8 / 15.9	8.7 / 17.8	9.7 / 19.9	10.7 / 21.5
18	Simple	1182	1396	1627	1875	2140	2421	2719	3032	3362	3708
	Multiple	928	1106	1301	1511	1736	1978	2235	2499	2771	3057
	Min. Bearing	3.0 / 5.8	3.5 / 7.0	4.1 / 8.2	4.7 / 9.5	5.4 / 10.9	6.1 / 12.4	6.8 / 14.1	7.6 / 15.7	8.5 / 17.4	9.3 / 19.2
20	Simple	943	1114	1299	1498	1709	1934	2172	2423	2687	2964
	Multiple	747	892	1049	1218	1401	1592	1789	1996	2214	2442
	Min. Bearing	2.6 / 5.2	3.1 / 6.2	3.6 / 7.3	4.2 / 8.5	4.8 / 9.8	5.4 / 11.1	6.1 / 12.5	6.8 / 14.0	7.5 / 15.5	8.3 / 17.1
22	Simple	751	908	1059	1221	1394	1578	1772	1977	2193	2419
	Multiple	614	733	862	1002	1146	1298	1458	1627	1805	1992
	Min. Bearing	2.3 / 4.7	2.8 / 5.6	3.3 / 6.6	3.8 / 7.7	4.3 / 8.8	4.9 / 10.0	5.5 / 11.2	6.1 / 12.5	6.7 / 13.9	7.4 / 15.3
24	Simple	574	749	878	1012	1156	1309	1470	1641	1820	2009
	Multiple	512	612	720	831	950	1076	1209	1349	1497	1652
	Min. Bearing	1.9 / 4.3	2.5 / 5.1	2.9 / 6.0	3.4 / 7.0	3.9 / 8.0	4.4 / 9.0	4.9 / 10.1	5.5 / 11.3	6.1 / 12.6	6.7 / 13.9
26	Simple	447	584	738	851	972	1101	1238	1381	1533	1692
	Multiple	433	518	605	698	798	904	1017	1135	1260	1391
	Min. Bearing	1.6 / 3.9	2.1 / 4.7	2.7 / 5.5	3.1 / 6.3	3.5 / 7.3	4.0 / 8.2	4.5 / 9.2	5.0 / 10.3	5.6 / 11.5	6.2 / 12.6
28	Simple	353	463	593	725	828	938	1054	1177	1306	1442
	Multiple	371	440	514	594	679	769	865	966	1073	1184
	Min. Bearing	1.5 / 3.6	1.8 / 4.3	2.3 / 5.0	2.8 / 5.8	3.2 / 6.6	3.7 / 7.5	4.1 / 8.5	4.6 / 9.5	5.1 / 10.5	5.6 / 11.6
30	Simple	283	372	477	601	712	807	908	1014	1125	1242
	Multiple	318	377	441	510	583	661	744	831	923	1019
	Min. Bearing	1.5 / 3.3	1.6 / 4.0	2.0 / 4.6	2.5 / 5.3	3.0 / 6.1	3.4 / 6.9	3.8 / 7.8	4.3 / 8.7	4.7 / 9.7	5.2 / 10.7
32	Simple	229	302	389	490	607	701	788	881	978	1080
	Multiple	275	326	382	442	505	573	645	721	801	885
	Min. Bearing	1.5 / 3.1	1.5 / 3.7	1.7 / 4.3	2.2 / 4.9	2.7 / 5.7	3.1 / 6.4	3.5 / 7.2	3.9 / 8.1	4.4 / 9.0	4.8 / 9.9
34	Simple	187	248	320	404	501	613	690	771	856	946
	Multiple	240	285	333	386	441	501	564	631	701	774
	Min. Bearing	1.5 / 3.0	1.5 / 3.4	1.5 / 4.0	1.9 / 4.6	2.4 / 5.2	2.9 / 6.0	3.3 / 6.7	3.7 / 7.5	4.1 / 8.3	4.5 / 9.2
36	Simple	154	205	265	336	418	511	608	680	755	834
	Multiple	210	250	293	339	388	441	496	555	617	682
	Min. Bearing	1.5 / 3.0	1.5 / 3.1	1.5 / 3.7	1.7 / 4.3	2.1 / 4.9	2.6 / 5.5	3.1 / 6.2	3.4 / 7.0	3.8 / 7.8	4.2 / 8.6
38	Simple	128	171	222	281	350	430	520	603	670	740
	Multiple	175	220	258	299	343	390	439	492	547	605
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	1.5 / 4.0	1.9 / 4.6	2.3 / 5.2	2.8 / 5.8	3.2 / 6.5	3.6 / 7.3	3.9 / 8.0
40	Simple	107	143	186	237	296	364	441	528	598	661
	Multiple	147	195	229	266	305	347	391	438	487	539
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	1.5 / 3.7	1.7 / 4.3	2.0 / 4.9	2.5 / 5.5	3.0 / 6.1	3.3 / 6.8	3.7 / 7.5

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Rosboro
TREATED X BEAM
 When You Need It To Last

Allowable Load (plf) for 6-3/4-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)										
		6	7 1/2	9	9 1/2	10 1/2	11 7/8	12	13 1/2	14	15	16
6	Simple	1790	2800	4035	4497	5495	7024	7135	8564	9083	10197	11422
	Multiple	1378	2156	3107	3463	4232	5111	5184	6111	6440	7130	7869
	Min. Bearing	1.5 / 3.0	1.9 / 3.7	2.8 / 5.3	3.1 / 5.9	3.8 / 7.2	4.8 / 8.7	4.9 / 8.9	5.9 / 10.4	6.2 / 11.0	7.0 / 12.2	7.8 / 13.5
8	Simple	939	1570	2263	2523	3084	3947	4030	5104	5490	6304	7129
	Multiple	771	1207	1741	1941	2373	3038	3102	3929	4226	4745	5177
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	2.1 / 4.0	2.3 / 4.4	2.8 / 5.4	3.6 / 6.9	3.7 / 7.1	4.7 / 9.0	5.0 / 9.6	5.7 / 10.8	6.5 / 11.8
10	Simple	476	937	1443	1609	1967	2519	2572	3258	3505	4025	4582
	Multiple	490	768	1109	1237	1512	1937	1978	2507	2697	3097	3526
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.6 / 3.2	1.8 / 3.5	2.2 / 4.3	2.9 / 5.5	2.9 / 5.6	3.7 / 7.1	4.0 / 7.7	4.6 / 8.8	5.2 / 10.0
12	Simple	271	537	934	1101	1361	1743	1780	2256	2427	2788	3173
	Multiple	337	530	766	854	1045	1339	1368	1734	1866	2143	2440
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 3.6	2.4 / 4.6	2.4 / 4.7	3.1 / 5.9	3.3 / 6.4	3.8 / 7.3	4.3 / 8.3
14	Simple	167	334	583	687	932	1276	1303	1652	1773	2023	2288
	Multiple	223	386	559	623	763	979	1000	1268	1365	1568	1786
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	2.0 / 3.9	2.1 / 4.0	2.6 / 5.1	2.8 / 5.4	3.2 / 6.3	3.7 / 7.1
16	Simple	109	219	386	455	619	900	930	1244	1334	1522	1722
	Multiple	146	292	424	474	580	745	761	966	1039	1195	1361
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.4	1.7 / 3.5	2.3 / 4.4	2.4 / 4.7	2.8 / 5.4	3.1 / 6.2
18	Simple	73	150	266	315	429	627	647	927	1036	1183	1339
	Multiple	100	202	332	371	455	584	597	758	816	939	1070
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.9 / 3.9	2.1 / 4.2	2.4 / 4.8	2.7 / 5.5
20	Simple	51	106	190	226	308	451	466	670	749	925	1068
	Multiple	70	144	255	297	365	470	480	610	657	756	862
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 3.7	2.1 / 4.3	2.4 / 4.9
22	Simple	--	77	139	166	227	334	345	498	557	689	839
	Multiple	--	105	188	223	299	385	393	500	539	620	708
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.4	1.7 / 3.9	2.1 / 4.4
24	Simple	--	56	104	124	171	253	262	378	424	525	640
	Multiple	--	78	141	168	231	320	327	417	449	517	590
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.5	1.8 / 4.0
26	Simple	--	--	79	94	131	195	202	293	328	407	498
	Multiple	--	--	108	129	178	262	271	352	379	436	495
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	1.5 / 3.7
28	Simple	--	--	60	72	101	152	157	230	258	321	394
	Multiple	--	--	84	100	139	206	213	300	323	370	420
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3
30	Simple	--	--	46	56	79	120	124	183	206	257	315
	Multiple	--	--	65	78	110	164	170	248	276	317	360
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1
32	Simple	--	--	--	--	62	96	99	147	165	207	255
	Multiple	--	--	--	--	87	132	136	200	225	273	311
	Min. Bearing	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
34	Simple	--	--	--	--	49	76	79	119	134	169	208
	Multiple	--	--	--	--	70	107	110	163	184	230	270
	Min. Bearing	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
36	Simple	--	--	--	--	--	61	64	97	109	138	171
	Multiple	--	--	--	--	--	87	90	134	151	189	234
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
38	Simple	--	--	--	--	--	49	51	79	90	114	142
	Multiple	--	--	--	--	--	71	74	111	125	157	195
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
40	Simple	--	--	--	--	--	--	--	64	74	94	118
	Multiple	--	--	--	--	--	--	--	92	104	131	163
	Min. Bearing	--	--	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Allowable Load (plf) for 6-3/4-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)									
		16 1/2	18	19 1/2	21	22 1/2	24	25 1/2	27	28 1/2	30
6	Simple	12081	14280	16880	20000	23813	28581	32471	36406	40566	44951
	Multiple	8258	9510	10911	12487	14273	16315	18671	21421	24671	28571
	Min. Bearing	8.3 / 14.1	9.8 / 16.3	11.5 / 18.7	13.7 / 21.3	16.3 / 24.4	19.5 / 27.9	22.2 / 31.9	24.9 / 36.6	27.7 / 42.2	30.7 / 48.8
8	Simple	7469	8556	9759	11096	12590	14271	16176	18354	20868	23801
	Multiple	5401	6103	6858	7671	8549	9501	10535	11664	12900	14261
	Min. Bearing	6.8 / 12.3	7.8 / 13.9	8.9 / 15.6	10.1 / 17.5	11.5 / 19.5	13.0 / 21.7	14.7 / 24.0	16.7 / 26.6	19.0 / 29.4	21.7 / 32.5
10	Simple	4873	5802	6800	7671	8549	9501	10535	11664	12900	14261
	Multiple	3750	4466	4996	5531	6096	6695	7330	8005	8724	9491
	Min. Bearing	5.6 / 10.7	6.6 / 12.7	7.7 / 14.2	8.7 / 15.8	9.7 / 17.4	10.8 / 19.1	12.0 / 20.9	13.3 / 22.8	14.7 / 24.9	16.3 / 27.0
12	Simple	3364	3972	4626	5328	6077	6872	7713	8542	9329	10172
	Multiple	2596	3092	3632	4215	4733	5164	5616	6089	6585	7106
	Min. Bearing	4.6 / 8.9	5.4 / 10.6	6.3 / 12.4	7.3 / 14.4	8.3 / 16.2	9.4 / 17.7	10.5 / 19.2	11.7 / 20.8	12.8 / 22.5	13.9 / 24.3
14	Simple	2427	2865	3338	3845	4386	4961	5569	6210	6884	7591
	Multiple	1900	2264	2660	3087	3547	4038	4548	4909	5284	5675
	Min. Bearing	3.9 / 7.6	4.6 / 9.0	5.3 / 10.6	6.1 / 12.3	7.0 / 14.1	7.9 / 16.1	8.9 / 18.1	9.9 / 19.6	11.0 / 21.1	12.1 / 22.6
16	Simple	1827	2157	2514	2897	3305	3738	4197	4681	5189	5723
	Multiple	1449	1727	2029	2356	2707	3081	3460	3859	4279	4719
	Min. Bearing	3.3 / 6.6	3.9 / 7.9	4.6 / 9.2	5.3 / 10.7	6.0 / 12.3	6.8 / 14.0	7.7 / 15.8	8.5 / 17.6	9.5 / 19.5	10.4 / 21.5
18	Simple	1420	1678	1956	2254	2572	2910	3268	3645	4042	4458
	Multiple	1139	1358	1596	1854	2119	2398	2693	3004	3331	3674
	Min. Bearing	2.9 / 5.8	3.4 / 7.0	4.0 / 8.2	4.6 / 9.5	5.3 / 10.9	6.0 / 12.3	6.7 / 13.8	7.5 / 15.4	8.3 / 17.1	9.1 / 18.8
20	Simple	1133	1339	1562	1800	2054	2325	2611	2913	3230	3563
	Multiple	917	1094	1284	1481	1691	1914	2150	2399	2661	2935
	Min. Bearing	2.6 / 5.2	3.1 / 6.2	3.6 / 7.3	4.1 / 8.4	4.7 / 9.6	5.3 / 10.9	6.0 / 12.2	6.6 / 13.7	7.4 / 15.2	8.1 / 16.7
22	Simple	922	1091	1272	1467	1675	1896	2130	2376	2636	2908
	Multiple	753	896	1046	1206	1377	1560	1752	1956	2170	2394
	Min. Bearing	2.3 / 4.7	2.7 / 5.6	3.2 / 6.6	3.7 / 7.6	4.2 / 8.6	4.8 / 9.8	5.3 / 11.0	6.0 / 12.3	6.6 / 13.6	7.3 / 15.0
24	Simple	704	904	1055	1216	1389	1573	1767	1972	2188	2414
	Multiple	626	742	866	999	1141	1293	1453	1622	1799	1986
	Min. Bearing	1.9 / 4.3	2.5 / 5.1	2.9 / 5.9	3.3 / 6.8	3.8 / 7.8	4.3 / 8.8	4.8 / 9.9	5.4 / 11.1	6.0 / 12.3	6.6 / 13.6
26	Simple	548	717	886	1023	1169	1323	1487	1660	1842	2033
	Multiple	525	622	727	839	959	1086	1221	1364	1514	1671
	Min. Bearing	1.6 / 3.9	2.1 / 4.6	2.6 / 5.4	3.0 / 6.2	3.5 / 7.1	3.9 / 8.0	4.4 / 9.0	4.9 / 10.1	5.5 / 11.2	6.0 / 12.4
28	Simple	433	568	728	871	995	1127	1267	1415	1570	1733
	Multiple	446	528	617	713	815	924	1039	1161	1289	1423
	Min. Bearing	1.5 / 3.6	1.8 / 4.2	2.3 / 4.9	2.8 / 5.7	3.2 / 6.5	3.6 / 7.4	4.0 / 8.3	4.5 / 9.3	5.0 / 10.3	5.5 / 11.4
30	Simple	347	456	586	737	856	970	1090	1218	1352	1493
	Multiple	382	453	530	612	700	794	894	998	1109	1225
	Min. Bearing	1.5 / 3.3	1.6 / 3.9	2.0 / 4.5	2.5 / 5.2	2.9 / 6.0	3.3 / 6.8	3.7 / 7.6	4.2 / 8.5	4.6 / 9.5	5.1 / 10.5
32	Simple	281	371	477	601	743	842	947	1058	1175	1297
	Multiple	330	392	459	530	607	689	775	866	962	1063
	Min. Bearing	1.5 / 3.0	1.5 / 3.6	1.7 / 4.2	2.2 / 4.8	2.7 / 5.5	3.1 / 6.3	3.5 / 7.1	3.9 / 7.9	4.3 / 8.8	4.7 / 9.7
34	Simple	230	304	392	496	615	736	829	926	1029	1136
	Multiple	287	342	400	463	530	602	677	757	842	930
	Min. Bearing	1.5 / 3.0	1.5 / 3.3	1.5 / 3.9	1.9 / 4.5	2.4 / 5.1	2.9 / 5.8	3.2 / 6.6	3.6 / 7.3	4.0 / 8.2	4.4 / 9.0
36	Simple	190	252	326	412	512	627	730	816	907	1002
	Multiple	252	300	351	407	466	529	596	667	741	819
	Min. Bearing	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	1.7 / 4.2	2.1 / 4.8	2.6 / 5.4	3.0 / 6.1	3.3 / 6.8	3.7 / 7.6	4.1 / 8.4
38	Simple	157	210	272	345	430	527	638	724	805	889
	Multiple	215	264	310	359	412	468	528	590	657	726
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	1.5 / 3.9	1.9 / 4.5	2.3 / 5.1	2.8 / 5.7	3.1 / 6.4	3.5 / 7.1	3.9 / 7.9
40	Simple	131	176	229	291	364	447	541	645	718	793
	Multiple	181	234	275	319	366	416	469	526	585	647
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	1.7 / 4.2	2.0 / 4.7	2.5 / 5.3	2.9 / 6.0	3.3 / 6.7	3.6 / 7.4

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Rosboro
TREATED X BEAM
 When You Need It To Last

Allowable Load (plf) for 8-3/4-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)										
		6	7 1/2	9	9 1/2	10 1/2	11 7/8	12	13 1/2	14	15	16
6	Simple	2321	3630	5231	5829	7124	9106	9249	11101	11775	13218	14806
	Multiple	1786	2794	4028	4489	5486	6625	6720	7921	8348	9243	10200
	Min. Bearing	1.5 / 3.0	1.9 / 3.7	2.8 / 5.3	3.1 / 5.9	3.8 / 7.2	4.8 / 8.7	4.9 / 8.9	5.9 / 10.4	6.2 / 11.0	7.0 / 12.2	7.8 / 13.5
8	Simple	1218	2035	2934	3270	3997	5116	5224	6616	7116	8171	9241
	Multiple	999	1565	2257	2516	3076	3938	4021	5093	5478	6151	6711
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	2.1 / 4.0	2.3 / 4.4	2.8 / 5.4	3.6 / 6.9	3.7 / 7.1	4.7 / 9.0	5.0 / 9.6	5.7 / 10.8	6.5 / 11.8
10	Simple	617	1215	1871	2086	2550	3265	3334	4224	4544	5210	5891
	Multiple	635	996	1438	1603	1961	2511	2564	3249	3496	4015	4570
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.6 / 3.2	1.8 / 3.5	2.2 / 4.3	2.9 / 5.5	2.9 / 5.6	3.7 / 7.1	4.0 / 7.7	4.6 / 8.8	5.2 / 10.0
12	Simple	352	696	1211	1427	1764	2260	2308	2897	3105	3542	4006
	Multiple	437	687	993	1107	1355	1736	1773	2248	2418	2778	3164
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 3.6	2.4 / 4.6	2.4 / 4.7	3.1 / 5.9	3.3 / 6.4	3.7 / 7.3	4.2 / 8.3
14	Simple	217	432	756	891	1208	1634	1667	2088	2238	2554	2889
	Multiple	289	500	724	808	989	1269	1296	1644	1769	2033	2315
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	2.0 / 3.9	2.1 / 4.0	2.6 / 5.1	2.8 / 5.4	3.1 / 6.3	3.6 / 7.1
16	Simple	141	284	500	590	802	1167	1205	1570	1684	1922	2174
	Multiple	190	379	550	614	752	965	986	1252	1347	1549	1765
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.4	1.7 / 3.5	2.2 / 4.4	2.4 / 4.7	2.7 / 5.4	3.1 / 6.2
18	Simple	95	195	345	409	557	812	839	1202	1308	1494	1690
	Multiple	129	262	431	481	590	758	774	983	1058	1217	1387
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.9 / 3.9	2.1 / 4.2	2.4 / 4.8	2.7 / 5.5
20	Simple	66	138	247	292	400	585	604	868	971	1191	1348
	Multiple	91	186	330	386	473	609	622	791	852	978	1108
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 3.7	2.1 / 4.3	2.4 / 4.9
22	Simple	46	100	181	215	295	433	448	645	722	893	1088
	Multiple	65	136	243	289	387	499	510	648	696	795	901
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.4	1.7 / 3.8	2.1 / 4.4
24	Simple	--	73	135	161	222	328	339	490	549	680	830
	Multiple	--	101	183	218	299	415	424	535	574	657	745
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.8 / 3.9
26	Simple	--	54	102	122	170	253	261	380	426	528	646
	Multiple	--	76	140	167	230	340	352	448	481	550	624
	Min. Bearing	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6
28	Simple	--	--	78	94	131	197	204	298	335	417	510
	Multiple	--	--	108	130	180	267	276	379	407	466	529
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3
30	Simple	--	--	60	72	103	156	161	237	267	333	408
	Multiple	--	--	84	102	142	213	220	321	348	399	453
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
32	Simple	--	--	46	56	81	124	128	190	214	269	331
	Multiple	--	--	66	80	113	171	177	259	291	345	392
	Min. Bearing	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
34	Simple	--	--	--	--	64	99	103	154	174	219	270
	Multiple	--	--	--	--	91	138	143	211	238	298	341
	Min. Bearing	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
36	Simple	--	--	--	--	50	79	83	125	142	179	222
	Multiple	--	--	--	--	73	112	117	174	196	246	298
	Min. Bearing	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
38	Simple	--	--	--	--	--	64	66	102	116	147	184
	Multiple	--	--	--	--	--	92	95	143	162	204	252
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0
40	Simple	--	--	--	--	--	51	53	83	95	122	153
	Multiple	--	--	--	--	--	75	78	119	135	170	211
	Min. Bearing	--	--	--	--	--	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0

DESIGN ASSUMPTIONS:

- SPAN is the on-center distance between supports and is valid for simple span applications.
- Dry-use conditions.
- Total load deflection limit = Span/240.
- Live load ≤ 0.67 x Total load
- Full lateral support on the compression side.
- The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).



Rosboro
TREATED X BEAM
 When You Need It To Last

Allowable Load (plf) for 8-3/4-inch Wide 24F-V4/DF Glulam Floor Beams - 100% Floor Load

Span (ft)	Span Type	Glulam Depth (in.)									
		16 1/2	18	19 1/2	21	22 1/2	24	25 1/2	27	28 1/2	30
6	Simple	15661	18512	21881	25925	30869	37049	41940	46755	51816	57123
	Multiple	10704	12328	14144	16187	18502	21149	24203	27768	31980	37036
	Min. Bearing	8.3 / 14.1	9.8 / 16.3	11.5 / 18.7	13.7 / 21.3	16.3 / 24.4	19.5 / 27.9	22.1 / 31.9	24.7 / 36.6	27.3 / 42.2	30.1 / 48.8
8	Simple	9682	11092	12651	14383	16320	18499	20969	23793	27051	30853
	Multiple	7001	7912	8890	9944	11082	12316	13657	15120	16723	18486
	Min. Bearing	6.8 / 12.3	7.8 / 13.9	8.9 / 15.6	10.1 / 17.5	11.5 / 19.5	13.0 / 21.7	14.7 / 24.0	16.7 / 26.6	19.0 / 29.4	21.7 / 32.5
10	Simple	6247	7373	8587	9889	11082	12316	13657	15120	16723	18486
	Multiple	4862	5789	6476	7169	7902	8678	9502	10377	11309	12303
	Min. Bearing	5.5 / 10.7	6.5 / 12.7	7.5 / 14.2	8.7 / 15.8	9.7 / 17.4	10.8 / 19.1	12.0 / 20.9	13.3 / 22.8	14.7 / 24.9	16.3 / 27.0
12	Simple	4249	5016	5843	6729	7675	8679	9741	10862	12040	13186
	Multiple	3365	4009	4708	5464	6135	6694	7279	7893	8536	9211
	Min. Bearing	4.5 / 8.9	5.3 / 10.6	6.2 / 12.4	7.1 / 14.4	8.1 / 16.2	9.2 / 17.7	10.3 / 19.2	11.5 / 20.8	12.7 / 22.5	13.9 / 24.3
14	Simple	3064	3618	4215	4856	5539	6265	7032	7842	8694	9587
	Multiple	2463	2935	3448	4002	4568	5167	5800	6364	6850	7356
	Min. Bearing	3.8 / 7.6	4.5 / 9.0	5.2 / 10.6	6.0 / 12.3	6.8 / 14.1	7.7 / 15.9	8.7 / 17.8	9.7 / 19.6	10.7 / 21.1	11.8 / 22.6
16	Simple	2306	2724	3174	3657	4173	4720	5300	5911	6553	7227
	Multiple	1878	2238	2615	3014	3439	3891	4369	4873	5403	5959
	Min. Bearing	3.2 / 6.6	3.8 / 7.9	4.5 / 9.2	5.1 / 10.6	5.9 / 12.1	6.6 / 13.7	7.5 / 15.4	8.3 / 17.1	9.2 / 19.0	10.2 / 21.0
18	Simple	1793	2119	2470	2846	3248	3675	4126	4603	5104	5629
	Multiple	1475	1744	2033	2344	2675	3027	3400	3793	4206	4640
	Min. Bearing	2.8 / 5.8	3.4 / 6.9	3.9 / 8.0	4.5 / 9.3	5.1 / 10.6	5.8 / 12.0	6.5 / 13.4	7.3 / 15.0	8.1 / 16.6	8.9 / 18.4
20	Simple	1430	1691	1971	2272	2594	2935	3297	3678	4079	4499
	Multiple	1176	1390	1621	1870	2135	2416	2714	3028	3359	3706
	Min. Bearing	2.5 / 5.2	3.0 / 6.1	3.5 / 7.1	4.0 / 8.2	4.6 / 9.4	5.2 / 10.6	5.8 / 11.9	6.5 / 13.3	7.2 / 14.8	7.9 / 16.3
22	Simple	1164	1377	1606	1852	2115	2394	2689	3000	3328	3672
	Multiple	956	1131	1320	1522	1739	1969	2212	2469	2739	3022
	Min. Bearing	2.3 / 4.6	2.7 / 5.5	3.1 / 6.4	3.6 / 7.4	4.1 / 8.4	4.6 / 9.5	5.2 / 10.7	5.8 / 11.9	6.4 / 13.2	7.1 / 14.6
24	Simple	913	1141	1331	1535	1753	1985	2231	2490	2762	3048
	Multiple	790	936	1092	1261	1440	1631	1833	2047	2271	2507
	Min. Bearing	1.9 / 4.2	2.4 / 4.9	2.8 / 5.8	3.2 / 6.6	3.7 / 7.6	4.2 / 8.6	4.7 / 9.7	5.3 / 10.8	5.8 / 12.0	6.4 / 13.2
26	Simple	710	930	1119	1291	1475	1670	1877	2096	2325	2566
	Multiple	663	785	917	1059	1210	1371	1541	1721	1910	2109
	Min. Bearing	1.6 / 3.8	2.1 / 4.5	2.6 / 5.2	3.0 / 6.0	3.4 / 6.9	3.8 / 7.8	4.3 / 8.8	4.8 / 9.8	5.3 / 10.9	5.9 / 12.1
28	Simple	562	737	944	1098	1255	1422	1599	1785	1981	2187
	Multiple	562	666	779	900	1029	1166	1311	1465	1626	1796
	Min. Bearing	1.5 / 3.5	1.8 / 4.1	2.3 / 4.8	2.7 / 5.5	3.1 / 6.3	3.5 / 7.2	3.9 / 8.1	4.4 / 9.0	4.9 / 10.0	5.4 / 11.1
30	Simple	450	592	760	944	1080	1223	1376	1537	1706	1884
	Multiple	482	571	668	772	884	1002	1127	1260	1399	1545
	Min. Bearing	1.5 / 3.2	1.6 / 3.8	2.0 / 4.4	2.5 / 5.1	2.8 / 5.8	3.2 / 6.6	3.6 / 7.4	4.1 / 8.3	4.5 / 9.2	5.0 / 10.2
32	Simple	365	481	619	780	937	1062	1195	1335	1482	1637
	Multiple	416	494	578	669	766	868	977	1093	1214	1341
	Min. Bearing	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.2 / 4.7	2.6 / 5.4	3.0 / 6.1	3.4 / 6.9	3.8 / 7.7	4.2 / 8.5	4.6 / 9.4
34	Simple	298	394	509	643	797	929	1045	1168	1298	1434
	Multiple	362	430	504	583	668	759	854	955	1062	1173
	Min. Bearing	1.5 / 3.0	1.5 / 3.2	1.5 / 3.8	1.9 / 4.4	2.4 / 5.0	2.8 / 5.7	3.1 / 6.4	3.5 / 7.1	3.9 / 7.9	4.3 / 8.8
36	Simple	246	326	422	534	664	813	921	1030	1144	1264
	Multiple	317	377	442	512	587	667	751	841	935	1033
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.1 / 4.6	2.6 / 5.3	2.9 / 5.9	3.3 / 6.7	3.6 / 7.4	4.0 / 8.2
38	Simple	204	272	353	448	558	684	816	913	1015	1122
	Multiple	279	333	391	453	519	590	665	744	828	916
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.5 / 3.8	1.9 / 4.3	2.3 / 4.9	2.7 / 5.6	3.0 / 6.2	3.4 / 6.9	3.7 / 7.6
40	Simple	170	228	296	377	471	579	701	814	905	1001
	Multiple	234	295	346	402	461	524	591	662	737	816
	Min. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.0 / 4.6	2.5 / 5.2	2.9 / 5.8	3.2 / 6.5	3.5 / 7.2

DESIGN ASSUMPTIONS:

1. SPAN is the on-center distance between supports and is valid for simple span applications.
2. Dry-use conditions.
3. Total load deflection limit = Span/240.
4. Live load ≤ 0.67 x Total load
5. Full lateral support on the compression side.
6. The values are based on the design properties listed in EWS Y117 and are in addition to the beam weight (assumed 35 pcf).