

ALLOWABLE STRESS DESIGN VALUES FOR DRY USE	
Grade	3,100 F _b -2.1E
Modulus of Elasticity ⁴ , E (X10 ⁶ psi)	2.1
Bending Stress ¹ , F _b (psi)	3,100
Shear F _v (psi)	300
Compression Stress Perpendicular to Grain, F _{c⊥} (psi)	650

- Note:**
1. Reference bending design value in beam orientation is based on a reference depth of 12 inches. For other depths, the allowable bending stress, F_b, must be adjusted by multiplying F_b by (12/d)^{0.25}, where d is the depth of members in inches. For depths 3-1/2 inches or less, multiply F_b by 1.361.

2. Design stresses are based on 100% load duration.

3. F_{c⊥} and E shall not be increased for duration of load.

4. Deflection calculations shall include both bending and shear deformations.

Deflection for a simple span, uniform load: $\delta = \frac{270wL^4}{Ebd^3} + \frac{28.8wL^2}{Ebd}$

Where: δ = deflection (in)
w = uniform load (plf)
L = design span (ft)

E = modulus of elasticity (psi)
b = width of beam (in)
d = depth of beam (in)

Equations for other conditions can be found in engineering references.

DESIGN PROPERTIES

3100F _b -2.1E EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR DRY USE										Width 1.5"		
Design Property	Depth											
	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
Allowable Moment (lbs-ft)	1077	2374	3850	5897	6179	8307	8633	9131	12180	15386	18908	31281
Allowable Shear (lbs.)	1050	1650	2175	2775	2850	3375	3450	3563	4200	4800	5400	7200
Moment of Inertia (in ⁴)	5	21	48	99	107	178	190	209	343	512	729	1728
Weight (lbs./ft.)	1.5	2.4	3.1	4.0	4.1	4.9	5.0	5.1	6.1	6.9	7.8	10.4

3100F _b -2.1E EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR DRY USE										Width 1.75"		
Design Property	Depth											
	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
Allowable Moment (lbs-ft)	1256	2770	4492	6880	7209	9691	10071	10653	14210	17950	22059	36495
Allowable Shear (lbs.)	1225	1925	2538	3238	3325	3938	4025	4156	4900	5600	6300	8400
Moment of Inertia (in ⁴)	6	24	56	115	125	208	222	244	400	597	851	2016
Weight (lbs./ft.)	1.8	2.8	3.7	4.7	4.8	5.7	5.8	6.0	7.1	8.1	9.1	12.1

3100F _b -2.1E EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR DRY USE										Width 3.5"		
Design Property	Depth											
	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
Allowable Moment (lbs-ft)	2512	5540	8984	13761	14418	19382	20143	21306	28420	35901	44118	72990
Allowable Shear (lbs.)	2450	3850	5075	6475	6650	7875	8050	8313	9800	11200	12600	16800
Moment of Inertia (in ⁴)	13	49	111	231	250	415	444	488	800	1195	1701	4032
Weight (lbs./ft.)	3.5	5.5	7.3	9.3	9.6	11.3	11.6	12.0	14.1	16.1	18.2	24.2

3100F _b -2.1E EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR DRY USE										Width 5.25"		
Design Property	Depth											
	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
Allowable Moment (lbs-ft)	/	8310	13476	20641	21627	29074	30214	31959	42629	53851	66178	109485
Allowable Shear (lbs.)	/	5775	7613	9713	9975	11813	12075	12469	14700	16800	18900	25200
Moment of Inertia (in ⁴)	/	73	167	346	375	623	665	733	1201	1792	2552	6048
Weight (lbs./ft.)	/	8.3	11.0	14.0	14.4	17.0	17.4	18.0	21.2	24.2	27.2	36.3

3100F _b -2.1E EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR DRY USE										Width 7"		
Design Property	Depth											
	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
Allowable Moment (lbs-ft)	/	/	17969	27521	28836	38765	40285	42612	56839	71801	88237	145980
Allowable Shear (lbs.)	/	/	10150	12950	13300	15750	16100	16625	19600	22400	25200	33600
Moment of Inertia (in ⁴)	/	/	222	462	500	831	887	977	1601	2389	3402	8064
Weight (lbs./ft.)	/	/	14.6	18.7	19.2	22.7	23.2	24.0	28.2	32.3	36.3	48.4

- Notes:**
1. Lateral support of the beam compression edge shall be provided at intervals of 24" on-center or closer to prevent lateral torsional buckling.

2. Lateral support shall also be provided at all bearing locations to control lateral displacement at supports.

3. 1.5" and 1.75" wide LVL members with depths of 16", 18", and 24" are permitted for use in multiple-member built-up units only.

4. Allowable design values are based on 100% load duration.

1.5" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16" *	18" *	24" *
6	LL (L/240)	106	391										
	TL (L/180)	140	520	801	1128	1175	1390	1435	1480	1677	2441	2881	4085
	Bearing	1.5/3.5	2.4/5.9	3.6/9	5.1/12.6	5.3/13.1	6.3/15.6	6.5/16.1	6.7/16.6	7.5/18.8	10.9/27.2	12.9/32.2	18.2/45.5
7	LL (L/240)	67	252	551									
	TL (L/180)	88	334	658	903	937	1191	1229	1268	1437	2091	2469	3500
	Bearing	1.5/3.5	1.8/4.4	3.5/8.6	4.8/11.8	4.9/12.3	6.2/15.5	6.5/16.1	6.6/16.5	7.5/18.7	10.9/27.2	12.9/32.1	18.2/45.5
8	LL (L/240)	45	171	378	748								
	TL (L/180)	59	226	503	756	782	984	1016	1064	1256	1789	2159	3061
	Bearing	1.5/3.5	1.5/3.5	3/7.5	4.6/11.3	4.7/11.7	5.9/14.7	6.1/15.2	6.4/15.9	7.5/18.8	10.7/26.7	12.9/32.1	18.3/45.6
9	LL (L/240)		121	270	540	581							
	TL (L/180)		160	358	632	663	837	862	900	1116	1419	1789	2720
	Bearing		1.5/3.5	2.5/6.1	4.3/10.7	4.5/11.2	5.7/14.1	5.8/14.5	6.1/15.1	7.5/18.8	9.6/23.8	12/30	18.3/45.6
10	LL (L/240)		89	200	401	432	694	737					
	TL (L/180)		117	263	511	536	721	749	781	977	1191	1450	2447
	Bearing		1.5/3.5	2/5	3.9/9.6	4.1/10.1	5.4/13.5	5.6/14	5.9/14.6	7.3/18.3	8.9/22.2	10.8/27	18.2/45.5
11	LL (L/240)		67	151	306	330	532	566	619				
	TL (L/180)		88	199	405	437	595	619	654	856	1031	1234	2223
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	4.9/12.3	5.1/12.8	5.4/13.5	7.1/17.6	8.5/21.2	10.2/25.3	18.2/45.5
12	LL (L/240)		52	117	238	257	417	443	485				
	TL (L/180)		67	154	314	340	499	519	549	733	911	1078	1786
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.5/11.3	4.7/11.7	5/12.4	6.6/16.5	8.2/20.5	9.7/24.2	16/40
13	LL (L/240)			93	189	204	332	353	387	615			
	TL (L/180)			121	249	269	425	441	467	624	789	960	1516
	Bearing			1.5/3.5	2.5/6.1	2.7/6.6	4.2/10.4	4.3/10.8	4.6/11.4	6.1/15.2	7.7/19.2	9.4/23.4	14.8/36.8
14	LL (L/240)			75	152	165	268	286	313	500			
	TL (L/180)			97	200	216	354	377	402	537	679	835	1329
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.3/10.6	5.7/14.1	7.2/17.8	8.8/21.9	13.9/34.8
15	LL (L/240)			61	125	135	220	234	257	411			
	TL (L/180)			78	163	176	289	308	339	467	591	727	1188
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.3/13.2	6.7/16.7	8.2/20.5	13.4/33.3
16	LL (L/240)			50	103	112	183	195	214	342	500		
	TL (L/180)			64	134	145	239	255	280	410	518	638	1058
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5/12.4	6.3/15.6	7.7/19.2	12.7/31.7
17	LL (L/240)				86	93	153	163	179	288	421		
	TL (L/180)				111	121	200	213	234	362	458	564	936
	Bearing				1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.7/11.6	5.9/14.7	7.3/18.1	12/29.8
18	LL (L/240)				73	79	130	138	152	244	358	500	
	TL (L/180)				94	101	168	180	198	321	408	502	833
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	5.6/13.9	6.9/17.1	11.3/28.2
19	LL (L/240)				62	67	111	118	130	209	307	429	
	TL (L/180)				79	86	143	153	168	273	366	450	747
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.3/13.2	6.5/16.2	10.7/26.7
20	LL (L/240)				53	58	95	102	112	180	265	371	
	TL (L/180)				67	73	122	131	144	235	329	405	673
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5/12.5	6.2/15.4	10.2/25.4
21	LL (L/240)					50	83	88	97	156	230	323	
	TL (L/180)					63	105	113	124	203	301	367	610
	Bearing					1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	5.9/14.6	9.7/24.2
22	LL (L/240)						72	77	84	137	201	283	
	TL (L/180)						91	98	108	176	262	334	554
	Bearing						1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	5.6/14	9.3/23.1
23	LL (L/240)						63	67	74	120	177	249	
	TL (L/180)						79	85	94	154	230	305	506
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.4/13.4	8.9/22.1
24	LL (L/240)						56	59	65	106	156	220	
	TL (L/180)						69	74	82	135	202	279	464
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.2/12.8	8.5/21.1
25	LL (L/240)							53	58	94	139	196	
	TL (L/180)							65	72	120	179	254	427
	Bearing							1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.2/20.3
26	LL (L/240)								52	84	124	175	
	TL (L/180)								64	106	159	225	394
	Bearing								1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	7.8/19.5
27	LL (L/240)									75	111	156	358
	TL (L/180)									94	141	201	365
	Bearing									2.1/5.1	3/7.5	4.2/10.5	7.6/18.8
28	LL (L/240)									67	100	141	323
	TL (L/180)									84	126	180	338
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.3/18.1
29	LL (L/240)									61	90	127	292
	TL (L/180)									75	113	162	315
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7/17.5
30	LL (L/240)									55	81	115	265
	TL (L/180)									67	102	146	293
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	6.8/16.9
31	LL (L/240)										74	105	241
	TL (L/180)										92	132	274
	Bearing										2.3/5.7	3.3/8.1	6.6/16.4
32	LL (L/240)										67	95	220
	TL (L/180)										83	119	257
	Bearing										2.2/5.4	3.1/7.6	6.4/15.9

Bearing=Minimum End / Intermediate Bearing Length (inches).

* All 16", 18" and 24" beam depths are to be used in multiple member units only.

1.75" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16" *	18" *	24" *
6	LL (L/240)	124	456										
	TL (L/180)	163	607	935	1316	1371	1622	1674	1727	1956	2848	3361	4765
	Bearing	1.5/3.5	2.4/5.9	3.6/9	5.1/12.6	5.3/13.1	6.2/15.5	6.5/16.1	6.7/16.6	7.5/18.8	10.9/27.2	12.9/32.1	18.2/45.5
7	LL (L/240)	79	294	643									
	TL (L/180)	103	390	767	1054	1093	1389	1434	1479	1676	2440	2880	4083
	Bearing	1.5/3.5	1.8/4.4	3.5/8.6	4.8/11.8	4.9/12.3	6.2/15.5	6.4/16	6.6/16.5	7.5/18.7	10.9/27.2	12.9/32.1	18.3/45.6
8	LL (L/240)	53	200	442	873								
	TL (L/180)	69	264	586	882	913	1149	1185	1242	1466	2088	2519	3571
	Bearing	1.5/3.5	1.5/3.5	3/7.5	4.6/11.3	4.7/11.7	5.9/14.7	6.1/15.2	6.4/15.9	7.5/18.7	10.7/26.7	12.9/32.2	18.3/45.6
9	LL (L/240)		142	315	629	678							
	TL (L/180)		186	418	738	773	976	1005	1050	1302	1655	2087	3173
	Bearing		1.5/3.5	2.5/6.1	4.3/10.7	4.5/11.2	5.7/14.1	5.8/14.5	6.1/15.1	7.5/18.8	9.6/23.8	12/30	18.3/45.6
10	LL (L/240)		104	233	468	505	809	860					
	TL (L/180)		136	307	597	625	841	874	912	1140	1390	1692	2854
	Bearing		1.5/3.5	2/5	3.9/9.6	4.1/10.1	5.4/13.5	5.6/14	5.9/14.6	7.3/18.3	8.9/22.2	10.8/27	18.2/45.5
11	LL (L/240)		79	177	357	385	621	660	722				
	TL (L/180)		102	232	472	510	694	722	763	999	1203	1439	2594
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	4.9/12.3	5.1/12.8	5.4/13.5	7.1/17.6	8.5/21.2	10.2/25.3	18.2/45.5
12	LL (L/240)		61	137	278	300	486	517	566				
	TL (L/180)		78	179	367	396	583	605	641	855	1063	1258	2084
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.5/11.3	4.7/11.7	5/12.4	6.6/16.5	8.2/20.5	9.7/24.2	16/40
13	LL (L/240)		48	108	221	238	387	412	452	717			
	TL (L/180)		61	141	290	313	496	515	545	728	920	1120	1769
	Bearing		1.5/3.5	1.5/3.5	2.5/6.1	2.7/6.6	4.2/10.4	4.3/10.8	4.6/11.4	6.1/15.2	7.7/19.2	9.4/23.4	14.8/36.8
14	LL (L/240)			87	178	192	313	334	366	583			
	TL (L/180)			113	233	252	413	440	469	627	792	975	1551
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.3/10.6	5.7/14.1	7.2/17.8	8.8/21.9	13.9/34.8
15	LL (L/240)			71	145	157	257	274	300	480			
	TL (L/180)			91	190	205	337	360	395	545	689	848	1386
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.3/13.2	6.7/16.7	8.2/20.5	13.4/33.3
16	LL (L/240)			59	120	130	213	227	249	400	583		
	TL (L/180)			75	156	169	279	298	327	478	605	744	1234
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5/12.4	6.3/15.6	7.7/19.2	12.7/31.7
17	LL (L/240)			49	101	109	179	190	209	336	491		
	TL (L/180)			62	130	141	233	249	273	423	535	658	1092
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.7/11.6	5.9/14.7	7.3/18.1	12/29.8
18	LL (L/240)				85	92	151	161	177	285	418	583	
	TL (L/180)				109	118	196	210	231	374	476	586	972
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	5.6/13.9	6.9/17.1	11.3/28.2
19	LL (L/240)				73	79	129	138	151	244	358	501	
	TL (L/180)				92	100	167	178	196	319	427	525	871
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.3/13.2	6.5/16.2	10.7/26.7
20	LL (L/240)				62	68	111	118	130	210	309	433	
	TL (L/180)				79	85	143	152	168	274	384	473	785
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5/12.5	6.2/15.4	10.2/25.4
21	LL (L/240)				54	58	96	103	113	183	269	377	
	TL (L/180)				68	73	123	131	145	237	351	428	711
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	5.9/14.6	9.7/24.2
22	LL (L/240)					51	84	90	98	159	235	330	
	TL (L/180)					63	106	114	125	206	306	389	647
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	5.6/14	9.3/23.1
23	LL (L/240)						74	79	86	140	207	290	
	TL (L/180)						93	99	109	180	268	355	591
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.4/13.4	8.9/22.1
24	LL (L/240)						65	69	76	124	183	257	
	TL (L/180)						81	87	96	158	236	326	542
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.2/12.8	8.5/21.1
25	LL (L/240)						58	61	68	110	162	228	
	TL (L/180)						71	76	84	139	208	296	498
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.2/20.3
26	LL (L/240)							55	60	98	145	204	
	TL (L/180)							67	74	123	185	263	460
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	7.8/19.5
27	LL (L/240)								54	87	129	183	418
	TL (L/180)								66	110	165	235	425
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	7.6/18.8
28	LL (L/240)									79	116	164	377
	TL (L/180)									98	147	210	395
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.3/18.1
29	LL (L/240)									71	105	148	341
	TL (L/180)									88	132	189	367
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7/17.5
30	LL (L/240)									64	95	134	309
	TL (L/180)									79	119	170	342
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	6.8/16.9
31	LL (L/240)									58	86	122	281
	TL (L/180)									71	107	154	320
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	6.6/16.4
32	LL (L/240)									53	79	111	257
	TL (L/180)									64	97	139	299
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.4/15.9

Bearing=Minimum End / Intermediate Bearing Length (inches).

* All 16", 18" and 24" beam depths are to be used in multiple member units only.

3.5" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
6	LL (L/240)	247	912										
	TL (L/180)	327	1213	1870	2631	2741	3244	3348	3453	3913	5696	6723	9531
	Bearing	1.5/3.5	2.4/5.9	3.6/9	5.1/12.6	5.3/13.1	6.2/15.5	6.5/16.1	6.7/16.6	7.5/18.7	10.9/27.3	12.9/32.2	18.2/45.5
7	LL (L/240)	157	587	1286									
	TL (L/180)	206	779	1535	2107	2186	2779	2868	2958	3352	4880	5760	8166
	Bearing	1.5/3.5	1.8/4.4	3.5/8.6	4.8/11.8	4.9/12.3	6.2/15.5	6.5/16.1	6.7/16.6	7.5/18.8	10.9/27.2	12.9/32.1	18.2/45.5
8	LL (L/240)	106	399	883	1746								
	TL (L/180)	138	528	1173	1763	1825	2297	2370	2484	2931	4175	5038	7142
	Bearing	1.5/3.5	1.5/3.5	3/7.5	4.6/11.3	4.7/11.7	5.9/14.7	6.1/15.2	6.4/15.9	7.5/18.8	10.7/26.7	12.9/32.2	18.2/45.5
9	LL (L/240)		283	631	1259	1356							
	TL (L/180)		373	836	1475	1546	1952	2011	2100	2604	3311	4173	6346
	Bearing		1.5/3.5	2.5/6.1	4.3/10.7	4.5/11.2	5.7/14.1	5.8/14.5	6.1/15.1	7.5/18.7	9.6/23.8	12/30	18.3/45.6
10	LL (L/240)		208	466	936	1009	1619	1720					
	TL (L/180)		272	615	1193	1251	1683	1749	1823	2280	2780	3383	5709
	Bearing		1.5/3.5	2/5	3.9/9.6	4.1/10.1	5.4/13.5	5.6/14	5.9/14.6	7.3/18.3	8.9/22.2	10.8/27	18.3/45.6
11	LL (L/240)		157	353	713	770	1242	1320	1444				
	TL (L/180)		204	464	944	1019	1389	1443	1527	1997	2407	2879	5188
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	4.9/12.3	5.1/12.8	5.4/13.5	7.1/17.6	8.5/21.2	10.2/25.3	18.2/45.5
12	LL (L/240)		122	274	556	600	972	1034	1132				
	TL (L/180)		157	359	733	792	1165	1211	1281	1711	2127	2516	4167
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.5/11.3	4.7/11.7	5/12.4	6.6/16.5	8.2/20.5	9.7/24.2	16/40
13	LL (L/240)		96	217	441	476	774	824	903	1434			
	TL (L/180)		123	282	580	627	991	1030	1090	1456	1841	2240	3538
	Bearing		1.5/3.5	1.5/3.5	2.5/6.1	2.7/6.6	4.2/10.4	4.3/10.8	4.6/11.4	6.1/15.2	7.7/19.2	9.4/23.4	14.8/36.8
14	LL (L/240)			174	356	384	626	667	731	1166			
	TL (L/180)			225	466	504	826	880	938	1253	1585	1949	3101
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.3/10.6	5.7/14.1	7.2/17.8	8.8/21.9	13.9/34.8
15	LL (L/240)			142	291	314	514	547	600	960			
	TL (L/180)			183	379	410	675	719	790	1090	1378	1696	2772
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.3/13.2	6.7/16.7	8.2/20.5	13.4/33.3
16	LL (L/240)			117	241	260	426	454	498	799	1166		
	TL (L/180)			150	312	338	558	595	654	956	1210	1488	2468
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5/12.4	6.3/15.6	7.7/19.2	12.7/31.7
17	LL (L/240)			98	202	218	357	381	418	672	983		
	TL (L/180)			124	260	282	466	497	547	845	1070	1316	2183
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.7/11.6	5.9/14.7	7.3/18.1	12/29.8
18	LL (L/240)				170	184	302	322	354	570	836	1166	
	TL (L/180)				218	237	393	419	461	748	952	1172	1945
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	5.6/13.9	6.9/17.1	11.3/28.2
19	LL (L/240)				145	157	258	275	302	488	716	1001	
	TL (L/180)				185	200	334	356	392	638	853	1050	1743
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.3/13.2	6.5/16.2	10.7/26.7
20	LL (L/240)				125	135	222	237	260	421	618	866	
	TL (L/180)				157	171	285	305	336	548	768	946	1571
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5/12.5	6.2/15.4	10.2/25.4
21	LL (L/240)				108	117	192	205	226	365	537	754	
	TL (L/180)				135	147	246	263	289	474	702	856	1422
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	5.9/14.6	9.7/24.2
22	LL (L/240)					102	168	179	197	319	470	660	
	TL (L/180)					127	213	228	251	412	612	779	1294
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	5.6/14	9.3/23.1
23	LL (L/240)						147	157	173	280	413	581	
	TL (L/180)						185	198	219	360	536	711	1182
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.4/13.4	8.9/22.1
24	LL (L/240)						130	139	152	247	365	514	
	TL (L/180)						162	174	192	316	472	651	1083
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.2/12.8	8.5/21.1
25	LL (L/240)						115	123	135	219	324	456	
	TL (L/180)						142	153	168	279	417	592	996
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.2/20.3
26	LL (L/240)							109	120	195	289	407	
	TL (L/180)							135	149	247	370	526	919
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	7.8/19.5
27	LL (L/240)								108	175	259	365	836
	TL (L/180)								132	220	330	470	851
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	7.6/18.8
28	LL (L/240)									157	233	328	754
	TL (L/180)									196	295	421	789
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.3/18.1
29	LL (L/240)									142	210	296	682
	TL (L/180)									175	264	378	734
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7/17.5
30	LL (L/240)									128	190	268	618
	TL (L/180)									157	238	340	685
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	6.8/16.9
31	LL (L/240)									116	173	244	563
	TL (L/180)									141	214	308	640
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	6.6/16.4
32	LL (L/240)									106	157	222	514
	TL (L/180)									127	194	279	599
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.4/15.9

Bearing=Minimum End / Intermediate Bearing Length (inches)

5.25" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
6	LL (L/240)		1368										
	TL (L/180)		1820	2805	3947	4112	4865	5023	5180	5869	8544	10084	14296
	Bearing		2.4/5.9	3.6/9	5.1/12.6	5.3/13.1	6.3/15.6	6.4/16	6.6/16.5	7.5/18.7	10.9/27.2	12.9/32.1	18.3/45.6
7	LL (L/240)		881	1930									
	TL (L/180)		1169	2302	3161	3280	4168	4303	4437	5028	7320	8640	12249
	Bearing		1.8/4.4	3.5/8.6	4.8/11.8	4.9/12.3	6.3/15.6	6.5/16.1	6.7/16.6	7.5/18.8	10.9/27.3	12.9/32.2	18.2/45.5
8	LL (L/240)		599	1325	2618								
	TL (L/180)		792	1759	2645	2738	3446	3556	3726	4397	6263	7556	10713
	Bearing		1.5/3.5	3/7.5	4.6/11.3	4.7/11.7	5.9/14.7	6.1/15.2	6.4/15.9	7.5/18.8	10.7/26.7	12.9/32.2	18.2/45.5
9	LL (L/240)		425	946	1889	2035							
	TL (L/180)		559	1253	2213	2319	2928	3016	3151	3906	4966	6260	9519
	Bearing		1.5/3.5	2.5/6.1	4.3/10.7	4.5/11.2	5.7/14.1	5.8/14.5	6.1/15.1	7.5/18.8	9.6/23.8	12/30	18.2/45.5
10	LL (L/240)		312	698	1404	1514	2428	2580					
	TL (L/180)		408	922	1790	1876	2524	2623	2735	3420	4169	5075	8563
	Bearing		1.5/3.5	2/5	3.9/9.6	4.1/10.1	5.4/13.5	5.6/14	5.9/14.6	7.3/18.3	8.9/22.2	10.8/27	18.2/45.5
11	LL (L/240)		236	530	1070	1155	1863	1981	2166				
	TL (L/180)		307	697	1416	1529	2083	2165	2290	2996	3610	4318	7781
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	4.9/12.3	5.1/12.8	5.4/13.5	7.1/17.6	8.5/21.2	10.2/25.3	18.3/45.6
12	LL (L/240)		182	411	834	900	1458	1552	1698				
	TL (L/180)		235	538	1100	1188	1748	1816	1922	2566	3190	3775	6251
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.5/11.3	4.7/11.7	5/12.4	6.6/16.5	8.2/20.5	9.7/24.2	16/40
13	LL (L/240)		144	325	662	715	1162	1237	1355	2151			
	TL (L/180)		184	423	870	940	1487	1545	1635	2183	2761	3360	5307
	Bearing		1.5/3.5	1.5/3.5	2.5/6.1	2.7/6.6	4.2/10.4	4.3/10.8	4.6/11.4	6.1/15.2	7.7/19.2	9.4/23.4	14.8/36.8
14	LL (L/240)			261	533	576	940	1001	1097	1749			
	TL (L/180)			338	699	756	1238	1320	1407	1880	2377	2924	4652
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.3/10.6	5.7/14.1	7.2/17.8	8.8/21.9	13.9/34.8
15	LL (L/240)			213	436	472	770	821	900	1440			
	TL (L/180)			274	569	616	1012	1079	1185	1635	2068	2543	4157
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.3/13.2	6.7/16.7	8.2/20.5	13.4/33.3
16	LL (L/240)			176	361	390	639	681	747	1199	1749		
	TL (L/180)			224	469	507	837	893	981	1434	1814	2232	3702
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5/12.4	6.3/15.6	7.7/19.2	12.7/31.7
17	LL (L/240)			147	302	327	536	571	627	1008	1474		
	TL (L/180)			186	390	422	699	746	820	1268	1604	1974	3275
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.7/11.6	5.9/14.7	7.3/18.1	12/29.8
18	LL (L/240)				255	276	454	484	531	855	1254	1749	
	TL (L/180)				327	355	589	629	692	1122	1428	1758	2917
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	5.6/13.9	6.9/17.1	11.3/28.2
19	LL (L/240)				218	236	387	413	454	732	1075	1502	
	TL (L/180)				277	300	500	534	588	957	1280	1575	2614
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.3/13.2	6.5/16.2	10.7/26.7
20	LL (L/240)				187	203	333	355	390	631	928	1299	
	TL (L/180)				236	256	428	457	504	822	1152	1419	2356
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5/12.5	6.2/15.4	10.2/25.4
21	LL (L/240)				162	175	289	308	338	548	806	1130	
	TL (L/180)				203	220	369	394	434	710	1053	1284	2134
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	5.9/14.6	9.7/24.2
22	LL (L/240)					153	252	269	295	478	705	989	
	TL (L/180)					190	319	342	376	618	917	1168	1941
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	5.6/14	9.3/23.1
23	LL (L/240)						221	236	259	420	620	871	
	TL (L/180)						278	297	328	540	804	1066	1773
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.4/13.4	8.9/22.1
24	LL (L/240)						195	208	228	371	548	770	
	TL (L/180)						243	260	287	474	707	977	1625
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.2/12.8	8.5/21.1
25	LL (L/240)						173	184	203	329	486	685	
	TL (L/180)						214	229	253	418	625	887	1495
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.2/20.3
26	LL (L/240)							164	180	293	434	611	
	TL (L/180)							202	223	370	555	789	1379
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	7.8/19.5
27	LL (L/240)								161	262	388	548	1254
	TL (L/180)								198	329	495	704	1276
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	7.6/18.8
28	LL (L/240)									236	349	492	1130
	TL (L/180)									294	442	631	1184
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.3/18.1
29	LL (L/240)									212	315	445	1022
	TL (L/180)									263	396	567	1101
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7/17.5
30	LL (L/240)									192	285	403	928
	TL (L/180)									236	357	511	1027
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	6.8/16.9
31	LL (L/240)									174	259	366	844
	TL (L/180)									212	322	461	959
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	6.6/16.4
32	LL (L/240)									159	236	333	770
	TL (L/180)									191	291	418	898
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.4/15.9

Bearing=Minimum End / Intermediate Bearing Length (inches)

7" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
6	LL (L/240)												
	TL (L/180)			3740	5263	5482	6487	6697	6906	7826	11392	13446	19062
	Bearing			3.6/9	5.1/12.6	5.3/13.1	6.2/15.5	6.4/16	6.6/16.5	7.5/18.8	10.9/27.2	12.9/32.1	18.2/45.5
7	LL (L/240)			2573									
	TL (L/180)			3069	4215	4373	5557	5737	5916	6704	9760	11520	16332
	Bearing			3.5/8.6	4.8/11.8	4.9/12.3	6.3/15.6	6.5/16.1	6.7/16.6	7.5/18.8	10.9/27.2	12.9/32.2	18.2/45.5
8	LL (L/240)			1766	3491								
	TL (L/180)			2345	3527	3651	4594	4741	4968	5862	8351	10075	14284
	Bearing			3/7.5	4.6/11.3	4.7/11.7	5.9/14.7	6.1/15.2	6.4/15.9	7.5/18.8	10.7/26.7	12.9/32.2	18.3/45.6
9	LL (L/240)			1262	2518	2713							
	TL (L/180)			1671	2951	3092	3904	4021	4201	5208	6622	8347	12692
	Bearing			2.5/6.1	4.3/10.7	4.5/11.2	5.7/14.1	5.8/14.5	6.1/15.1	7.5/18.7	9.6/23.8	12/30	18.2/45.5
10	LL (L/240)			931	1872	2018	3237	3440					
	TL (L/180)			1230	2387	2501	3365	3497	3646	4559	5559	6766	11418
	Bearing			2/5	3.9/9.6	4.1/10.1	5.4/13.5	5.6/14	5.9/14.6	7.3/18.3	8.9/22.2	10.8/27	18.3/45.6
11	LL (L/240)			706	1427	1540	2484	2641	2888				
	TL (L/180)			929	1888	2038	2777	2887	3054	3995	4814	5757	10375
	Bearing			1.7/4.2	3.4/8.4	3.6/9	4.9/12.3	5.1/12.8	5.4/13.5	7.1/17.6	8.5/21.2	10.2/25.3	18.2/45.5
12	LL (L/240)			548	1112	1200	1944	2069	2264				
	TL (L/180)			717	1467	1584	2330	2422	2562	3422	4254	5033	8335
	Bearing			1.5/3.5	2.9/7.1	3.1/7.7	4.5/11.3	4.7/11.7	5/12.4	6.6/16.5	8.2/20.5	9.7/24.2	16/40
13	LL (L/240)			433	882	953	1549	1649	1806	2868			
	TL (L/180)			564	1160	1254	1982	2060	2180	2911	3681	4480	7076
	Bearing			1.5/3.5	2.5/6.1	2.7/6.6	4.2/10.4	4.3/10.8	4.6/11.4	6.1/15.2	7.7/19.2	9.4/23.4	14.8/36.8
14	LL (L/240)			348	711	769	1253	1334	1463	2332			
	TL (L/180)			451	932	1008	1651	1760	1876	2506	3169	3898	6203
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.3/10.6	5.7/14.1	7.2/17.8	8.8/21.9	13.9/34.8
15	LL (L/240)			284	582	629	1027	1094	1200	1920			
	TL (L/180)			365	758	821	1350	1439	1580	2180	2757	3391	5543
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.3/13.2	6.7/16.7	8.2/20.5	13.4/33.3
16	LL (L/240)			235	481	521	852	908	996	1598	2332		
	TL (L/180)			299	625	676	1116	1190	1308	1912	2419	2976	4935
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5/12.4	6.3/15.6	7.7/19.2	12.7/31.7
17	LL (L/240)			196	403	436	715	762	836	1344	1966		
	TL (L/180)			248	520	563	932	995	1093	1691	2139	2632	4366
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.7/11.6	5.9/14.7	7.3/18.1	12/29.8
18	LL (L/240)				341	368	605	645	708	1141	1672	2332	
	TL (L/180)				436	473	785	839	922	1496	1905	2344	3889
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	5.6/13.9	6.9/17.1	11.3/28.2
19	LL (L/240)				290	314	516	551	605	976	1433	2003	
	TL (L/180)				369	401	667	713	784	1276	1706	2100	3486
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.3/13.2	6.5/16.2	10.7/26.7
20	LL (L/240)				250	270	444	474	521	841	1237	1732	
	TL (L/180)				315	342	571	610	672	1096	1537	1892	3141
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5/12.5	6.2/15.4	10.2/25.4
21	LL (L/240)				216	234	385	411	451	730	1075	1507	
	TL (L/180)				270	293	492	526	579	947	1404	1712	2845
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	5.9/14.6	9.7/24.2
22	LL (L/240)					204	336	358	394	637	940	1319	
	TL (L/180)					253	426	455	502	824	1223	1557	2588
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	5.6/14	9.3/23.1
23	LL (L/240)						294	314	345	560	826	1161	
	TL (L/180)						371	397	437	720	1072	1422	2363
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.4/13.4	8.9/22.1
24	LL (L/240)						260	277	305	494	730	1027	
	TL (L/180)						324	347	383	632	943	1303	2167
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.2/12.8	8.5/21.1
25	LL (L/240)						230	246	270	439	648	913	
	TL (L/180)						285	305	337	558	834	1183	1993
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.2/20.3
26	LL (L/240)							219	241	391	578	815	
	TL (L/180)							269	297	494	740	1052	1839
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	7.8/19.5
27	LL (L/240)								215	350	518	730	1672
	TL (L/180)								263	439	659	939	1702
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	7.6/18.8
28	LL (L/240)									314	465	657	1507
	TL (L/180)									392	589	841	1579
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.3/18.1
29	LL (L/240)									283	420	593	1363
	TL (L/180)									350	529	756	1469
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7/17.5
30	LL (L/240)									256	380	537	1237
	TL (L/180)									314	475	681	1369
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	6.8/16.9
31	LL (L/240)									233	345	488	1126
	TL (L/180)									283	429	615	1279
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	6.6/16.4
32	LL (L/240)									212	314	444	1027
	TL (L/180)									255	388	557	1198
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.4/15.9

Bearing=Minimum End / Intermediate Bearing Length (inches)

1.5" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16" *	18" *	24" *
6	LL (L/240)	106	391	844									
	TL (L/180)	140	520	884	1258	1313	1480	1525	1570	1767	2531	2971	4427
	Bearing	1.5/3.5	2.4/5.9	4/9.9	5.7/14.1	5.9/14.7	6.7/16.6	6.8/17	7.1/17.6	7.9/19.8	11.3/28.2	13.3/33.1	19.8/49.4
7	LL (L/240)	67	252	551									
	TL (L/180)	88	334	723	1000	1038	1268	1306	1345	1514	2169	2546	3793
	Bearing	1.5/3.5	1.8/4.4	3.8/9.5	5.3/13.1	5.5/13.6	6.6/16.5	6.8/17	7.1/17.6	7.9/19.7	11.3/28.3	13.3/33.2	19.8/49.4
8	LL (L/240)	45	171	378	748	805							
	TL (L/180)	59	226	503	833	863	1093	1129	1176	1324	1897	2226	3317
	Bearing	1.5/3.5	1.5/3.5	3/7.5	5/12.5	5.2/12.9	6.6/16.3	6.8/16.8	7/17.5	7.9/19.8	11.3/28.3	13.3/33.1	19.8/49.4
9	LL (L/240)		121	270	540	581							
	TL (L/180)		160	358	688	721	924	953	996	1176	1608	1978	2948
	Bearing		1.5/3.5	2.5/6.1	4.7/11.6	4.9/12.1	6.2/15.5	6.4/16	6.7/16.7	7.9/19.7	10.8/27	13.3/33.1	19.8/49.3
10	LL (L/240)		89	200	401	432	694	737	805				
	TL (L/180)		117	263	532	574	784	815	862	1058	1333	1646	2652
	Bearing		1.5/3.5	2/5	4/10	4.3/10.8	5.9/14.7	6.1/15.2	6.5/16.1	7.9/19.8	10/24.9	12.3/30.7	19.8/49.3
11	LL (L/240)		67	151	306	330	532	566	619				
	TL (L/180)		88	199	405	437	647	673	712	946	1147	1384	2410
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	5.4/13.3	5.6/13.9	5.9/14.7	7.8/19.5	9.5/23.6	11.4/28.4	19.8/49.3
12	LL (L/240)		52	117	238	257	417	443	485	767			
	TL (L/180)		67	154	314	340	543	565	597	797	1008	1201	2053
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.9/12.2	5.1/12.7	5.4/13.4	7.2/17.9	9.1/22.6	10.8/26.9	18.4/45.9
13	LL (L/240)			93	189	204	332	353	387	615			
	TL (L/180)			121	249	269	439	467	512	679	858	1055	1731
	Bearing			1.5/3.5	2.5/6.1	2.7/6.6	4.3/10.7	4.6/11.4	5/12.5	6.6/16.5	8.4/20.9	10.3/25.6	16.8/42
14	LL (L/240)			75	152	165	268	286	313	500	725		
	TL (L/180)			97	200	216	354	377	414	584	739	909	1499
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.4/10.9	6.2/15.4	7.8/19.4	9.6/23.8	15.7/39.2
15	LL (L/240)			61	125	135	220	234	257	411	598		
	TL (L/180)			78	163	176	289	308	339	508	643	791	1310
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.8/14.3	7.3/18.1	8.9/22.2	14.7/36.7
16	LL (L/240)			50	103	112	183	195	214	342	500	694	
	TL (L/180)			64	134	145	239	255	280	446	564	694	1150
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5.4/13.4	6.8/17	8.4/20.8	13.8/34.4
17	LL (L/240)				86	93	153	163	179	288	421	586	
	TL (L/180)				111	121	200	213	234	379	499	614	1018
	Bearing				1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.9/12.2	6.4/16	7.9/19.6	13/32.4
18	LL (L/240)				73	79	130	138	152	244	358	500	
	TL (L/180)				94	101	168	180	198	321	444	547	907
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	6.1/15.1	7.4/18.5	12.3/30.6
19	LL (L/240)				62	67	111	118	130	209	307	429	
	TL (L/180)				79	86	143	153	168	273	398	490	813
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.7/14.3	7.1/17.6	11.6/29
20	LL (L/240)				53	58	95	102	112	180	265	371	
	TL (L/180)				67	73	122	131	144	235	347	441	733
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5.3/13.2	6.7/16.7	11.1/27.6
21	LL (L/240)					50	83	88	97	156	230	323	
	TL (L/180)					63	105	113	124	203	301	400	663
	Bearing					1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	6.4/15.9	10.5/26.3
22	LL (L/240)						72	77	84	137	201	283	
	TL (L/180)						91	98	108	176	262	363	604
	Bearing						1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	6.1/15.2	10.1/25.1
23	LL (L/240)						63	67	74	120	177	249	
	TL (L/180)						79	85	94	154	230	325	551
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.7/14.2	9.6/24
24	LL (L/240)						56	59	65	106	156	220	500
	TL (L/180)						69	74	82	135	202	286	506
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.3/13.1	9.2/23
25	LL (L/240)							53	58	94	139	196	445
	TL (L/180)							65	72	120	179	254	465
	Bearing							1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.9/22.1
26	LL (L/240)								52	84	124	175	399
	TL (L/180)								64	106	159	225	429
	Bearing								1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	8.5/21.2
27	LL (L/240)									75	111	156	358
	TL (L/180)									94	141	201	397
	Bearing									2.1/5.1	3/7.5	4.2/10.5	8.2/20.4
28	LL (L/240)									67	100	141	323
	TL (L/180)									84	126	180	369
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.9/19.7
29	LL (L/240)									61	90	127	292
	TL (L/180)									75	113	162	343
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7.6/19
30	LL (L/240)									55	81	115	265
	TL (L/180)									67	102	146	320
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	7.4/18.4
31	LL (L/240)										74	105	241
	TL (L/180)										92	132	299
	Bearing										2.3/5.7	3.3/8.1	7.2/17.8
32	LL (L/240)										67	95	220
	TL (L/180)										83	119	280
	Bearing										2.2/5.4	3.1/7.6	6.9/17.2

Bearing=Minimum End / Intermediate Bearing Length (inches).

* All 16", 18" and 24" beam depths are to be used in multiple member units only.

1.75" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16" *	18" *	24" *
6	LL (L/240)	124	456	985									
	TL (L/180)	163	607	1032	1468	1532	1727	1779	1832	2061	2953	3466	5164
	Bearing	1.5/3.5	2.4/5.9	4/9.9	5.7/14.1	5.9/14.7	6.7/16.6	6.8/17	7.1/17.6	7.9/19.8	11.3/28.2	13.3/33.2	19.8/49.4
7	LL (L/240)	79	294	643									
	TL (L/180)	103	390	844	1166	1211	1479	1524	1569	1766	2530	2970	4425
	Bearing	1.5/3.5	1.8/4.4	3.8/9.5	5.3/13.1	5.5/13.6	6.7/16.6	6.9/17.1	7.1/17.6	7.9/19.7	11.3/28.3	13.3/33.2	19.8/49.4
8	LL (L/240)	53	200	442	873	939							
	TL (L/180)	69	264	586	972	1007	1275	1317	1372	1544	2213	2598	3870
	Bearing	1.5/3.5	1.5/3.5	3/7.5	5/12.5	5.2/12.9	6.6/16.3	6.8/16.8	7.1/17.6	7.9/19.7	11.3/28.3	13.3/33.2	19.8/49.4
9	LL (L/240)		142	315	629	678							
	TL (L/180)		186	418	802	841	1078	1112	1162	1372	1876	2308	3439
	Bearing		1.5/3.5	2.5/6.1	4.7/11.6	4.9/12.1	6.2/15.5	6.4/16	6.7/16.7	7.9/19.8	10.8/27	13.3/33.1	19.8/49.4
10	LL (L/240)		104	233	468	505	809	860	939				
	TL (L/180)		136	307	621	669	915	951	1006	1234	1555	1921	3094
	Bearing		1.5/3.5	2/5	4/10	4.3/10.8	5.9/14.7	6.1/15.2	6.5/16.1	7.9/19.7	10/24.9	12.3/30.7	19.8/49.3
11	LL (L/240)		79	177	357	385	621	660	722				
	TL (L/180)		102	232	472	510	755	785	830	1104	1338	1614	2811
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	5.4/13.3	5.6/13.9	5.9/14.7	7.8/19.5	9.5/23.6	11.4/28.4	19.8/49.4
12	LL (L/240)		61	137	278	300	486	517	566	895			
	TL (L/180)		78	179	367	396	634	659	697	930	1176	1402	2396
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.9/12.2	5.1/12.7	5.4/13.4	7.2/17.9	9.1/22.6	10.8/26.9	18.4/45.9
13	LL (L/240)		48	108	221	238	387	412	452	717			
	TL (L/180)		61	141	290	313	512	545	597	792	1001	1231	2020
	Bearing		1.5/3.5	1.5/3.5	2.5/6.1	2.7/6.6	4.3/10.7	4.6/11.4	5/12.5	6.6/16.5	8.4/20.9	10.3/25.6	16.8/42
14	LL (L/240)			87	178	192	313	334	366	583			
	TL (L/180)			113	233	252	413	440	483	682	845	1060	1748
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.4/10.9	6.2/15.4	7.8/19.4	9.6/23.8	15.7/39.2
15	LL (L/240)			71	145	157	257	274	300	480			
	TL (L/180)			91	190	205	337	360	395	593	698	922	1529
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.8/14.3	7.3/18.1	8.9/22.2	14.7/36.7
16	LL (L/240)			59	120	130	213	227	249	400			
	TL (L/180)			75	156	169	279	298	327	520	583	809	
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5.4/13.4	6.8/17	8.4/20.8	13.8/34.4
17	LL (L/240)			49	101	109	179	190	209	336			
	TL (L/180)			62	130	141	233	249	273	442	491	684	
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.9/12.2	6.4/16	7.9/19.6	13/32.4
18	LL (L/240)				85	92	151	161	177	285			
	TL (L/180)				109	118	196	210	231	374	418	583	
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	518	638	1058
19	LL (L/240)				73	79	129	138	151	244			
	TL (L/180)				92	100	167	178	196	319	358	501	
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	464	571	948
20	LL (L/240)				62	68	111	118	130	210			
	TL (L/180)				79	85	143	152	168	274	309	433	
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	405	515	855
21	LL (L/240)				54	58	96	103	113	183			
	TL (L/180)				68	73	123	131	145	237	269	377	
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	351	466	774
22	LL (L/240)					51	84	90	98	159			
	TL (L/180)					63	106	114	125	206	235	330	
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	306	424	704
23	LL (L/240)						74	79	86	140			
	TL (L/180)						93	99	109	180	207	290	
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	268	379	643
24	LL (L/240)						65	69	76	124			
	TL (L/180)						81	87	96	158	183	257	583
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	236	334	590
25	LL (L/240)						58	61	68	110			
	TL (L/180)						71	76	84	139	162	228	520
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	208	296	543
26	LL (L/240)							55	60	98			
	TL (L/180)							67	74	123	145	204	465
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	185	263	501
27	LL (L/240)								54	87			
	TL (L/180)								66	110	129	183	418
	Bearing								1.5/3.5	2.1/5.1	165	235	463
28	LL (L/240)									79			
	TL (L/180)									98	116	164	377
	Bearing									1.9/4.7	147	210	430
29	LL (L/240)									71			
	TL (L/180)									88	105	148	341
	Bearing									1.8/4.4	132	189	400
30	LL (L/240)									64			
	TL (L/180)									79	95	134	309
	Bearing									1.7/4.1	119	170	373
31	LL (L/240)									58			
	TL (L/180)									71	86	122	281
	Bearing									1.6/3.9	107	154	349
32	LL (L/240)									53			
	TL (L/180)									64	79	111	257
	Bearing									1.5/3.6	97	139	326

Bearing=Minimum End / Intermediate Bearing Length (inches).

* All 16", 18" and 24" beam depths are to be used in multiple member units only.

3.5" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
6	LL (L/240)	247	912	1970									
	TL (L/180)	327	1213	2064	2936	3064	3454	3558	3663	4123	5906	6933	10329
	Bearing	1.5/3.5	2.4/5.9	4/9.9	5.7/14.1	5.9/14.7	6.6/16.5	6.8/17	7/17.5	7.9/19.7	11.3/28.3	13.3/33.1	19.8/49.4
7	LL (L/240)	157	587	1286									
	TL (L/180)	206	779	1687	2332	2423	2959	3048	3138	3532	5060	5940	8850
	Bearing	1.5/3.5	1.8/4.4	3.8/9.5	5.3/13.1	5.5/13.6	6.6/16.5	6.8/17	7.1/17.6	7.9/19.8	11.3/28.3	13.3/33.1	19.8/49.4
8	LL (L/240)	106	399	883	1746	1878							
	TL (L/180)	138	528	1173	1944	2014	2549	2634	2744	3089	4425	5195	7741
	Bearing	1.5/3.5	1.5/3.5	3/7.5	5/12.5	5.2/12.9	6.6/16.3	6.8/16.8	7.1/17.6	7.9/19.8	11.3/28.2	13.3/33.2	19.8/49.4
9	LL (L/240)		283	631	1259	1356							
	TL (L/180)		373	836	1605	1681	2157	2223	2325	2744	3751	4616	6878
	Bearing		1.5/3.5	2.5/6.1	4.7/11.6	4.9/12.1	6.2/15.5	6.4/16	6.7/16.7	7.9/19.8	10.8/27	13.3/33.1	19.8/49.3
10	LL (L/240)		208	466	936	1009	1619	1720	1878				
	TL (L/180)		272	615	1241	1339	1830	1902	2011	2468	3111	3842	6188
	Bearing		1.5/3.5	2/5	4/10	4.3/10.8	5.9/14.7	6.1/15.2	6.5/16.1	7.9/19.7	10/24.9	12.3/30.7	19.8/49.4
11	LL (L/240)		157	353	713	770	1242	1320	1444				
	TL (L/180)		204	464	944	1019	1510	1570	1661	2208	2676	3228	5623
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	5.4/13.3	5.6/13.9	5.9/14.7	7.8/19.5	9.5/23.6	11.4/28.4	19.8/49.3
12	LL (L/240)		122	274	556	600	972	1034	1132	1789			
	TL (L/180)		157	359	733	792	1267	1317	1394	1861	2352	2803	4791
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.9/12.2	5.1/12.7	5.4/13.4	7.2/17.9	9.1/22.6	10.8/26.9	18.4/45.9
13	LL (L/240)		96	217	441	476	774	824	903	1434			
	TL (L/180)		123	282	580	627	1023	1090	1195	1583	2002	2462	4039
	Bearing		1.5/3.5	1.5/3.5	2.5/6.1	2.7/6.6	4.3/10.7	4.6/11.4	5/12.5	6.6/16.5	8.4/20.9	10.3/25.6	16.8/42
14	LL (L/240)			174	356	384	626	667	731	1166	1691		
	TL (L/180)			225	466	504	826	880	965	1363	1724	2120	3497
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.4/10.9	6.2/15.4	7.8/19.4	9.6/23.8	15.7/39.2
15	LL (L/240)			142	291	314	514	547	600	960	1396		
	TL (L/180)			183	379	410	675	719	790	1186	1500	1845	3058
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.8/14.3	7.3/18.1	8.9/22.2	14.7/36.7
16	LL (L/240)			117	241	260	426	454	498	799	1166	1619	
	TL (L/180)			150	312	338	558	595	654	1041	1316	1619	2684
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5.4/13.4	6.8/17	8.4/20.8	13.8/34.4
17	LL (L/240)			98	202	218	357	381	418	672	983	1368	
	TL (L/180)			124	260	282	466	497	547	884	1164	1432	2375
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.9/12.2	6.4/16	7.9/19.6	13/32.4
18	LL (L/240)				170	184	302	322	354	570	836	1166	
	TL (L/180)				218	237	393	419	461	748	1037	1275	2116
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	6.1/15.1	7.4/18.5	12.3/30.6
19	LL (L/240)				145	157	258	275	302	488	716	1001	
	TL (L/180)				185	200	334	356	392	638	929	1143	1897
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.7/14.3	7.1/17.6	11.6/29
20	LL (L/240)				125	135	222	237	260	421	618	866	
	TL (L/180)				157	171	285	305	336	548	810	1030	1709
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5.3/13.2	6.7/16.7	11.1/27.6
21	LL (L/240)				108	117	192	205	226	365	537	754	
	TL (L/180)				135	147	246	263	289	474	702	932	1548
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	6.4/15.9	10.5/26.3
22	LL (L/240)					102	168	179	197	319	470	660	
	TL (L/180)					127	213	228	251	412	612	848	1408
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	6.1/15.2	10.1/25.1
23	LL (L/240)						147	157	173	280	413	581	
	TL (L/180)						185	198	219	360	536	758	1287
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.7/14.2	9.6/24
24	LL (L/240)						130	139	152	247	365	514	1166
	TL (L/180)						162	174	192	316	472	668	1180
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.3/13.1	9.2/23
25	LL (L/240)						115	123	135	219	324	456	1039
	TL (L/180)						142	153	168	279	417	592	1085
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.9/22.1
26	LL (L/240)							109	120	195	289	407	930
	TL (L/180)							135	149	247	370	526	1002
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	8.5/21.2
27	LL (L/240)								108	175	259	365	836
	TL (L/180)								132	220	330	470	927
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	8.2/20.4
28	LL (L/240)									157	233	328	754
	TL (L/180)									196	295	421	860
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.9/19.7
29	LL (L/240)									142	210	296	682
	TL (L/180)									175	264	378	800
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7.6/19
30	LL (L/240)									128	190	268	618
	TL (L/180)									157	238	340	746
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	7.4/18.4
31	LL (L/240)									116	173	244	563
	TL (L/180)									141	214	308	697
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	7.2/17.8
32	LL (L/240)									106	157	222	514
	TL (L/180)									127	194	279	653
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.9/17.2

Bearing=Minimum End / Intermediate Bearing Length (inches).

5.25" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
6	LL (L/240)		1368	2955									
	TL (L/180)		1820	3095	4404	4596	5180	5338	5495	6184	8859	10399	15493
	Bearing		2.4/5.9	4/9.9	5.7/14.1	5.9/14.7	6.6/16.5	6.9/17.1	7.1/17.6	7.9/19.7	11.3/28.2	13.3/33.2	19.8/49.3
7	LL (L/240)		881	1930									
	TL (L/180)		1169	2531	3499	3634	4438	4573	4707	5298	7590	8910	13275
	Bearing		1.8/4.4	3.8/9.5	5.3/13.1	5.5/13.6	6.6/16.5	6.8/17	7.1/17.6	7.9/19.8	11.3/28.2	13.3/33.2	19.8/49.4
8	LL (L/240)		599	1325	2618	2817							
	TL (L/180)		792	1759	2916	3021	3824	3951	4116	4633	6638	7793	11611
	Bearing		1.5/3.5	3/7.5	5/12.5	5.2/12.9	6.6/16.3	6.8/16.8	7.1/17.6	7.9/19.7	11.3/28.3	13.3/33.1	19.8/49.4
9	LL (L/240)		425	946	1889	2035							
	TL (L/180)		559	1253	2407	2522	3235	3335	3487	4116	5627	6924	10317
	Bearing		1.5/3.5	2.5/6.1	4.7/11.6	4.9/12.1	6.2/15.5	6.4/16	6.7/16.7	7.9/19.8	10.8/27	13.3/33.2	19.8/49.4
10	LL (L/240)		312	698	1404	1514	2428	2580	2817				
	TL (L/180)		408	922	1862	2008	2745	2853	3017	3702	4666	5762	9281
	Bearing		1.5/3.5	2/5	4/10	4.3/10.8	5.9/14.7	6.1/15.2	6.5/16.1	7.9/19.8	10/24.9	12.3/30.7	19.8/49.4
11	LL (L/240)		236	530	1070	1155	1863	1981	2166				
	TL (L/180)		307	697	1416	1529	2266	2355	2491	3312	4014	4842	8434
	Bearing		1.5/3.5	1.7/4.2	3.4/8.4	3.6/9	5.4/13.3	5.6/13.9	5.9/14.7	7.8/19.5	9.5/23.6	11.4/28.4	19.8/49.3
12	LL (L/240)		182	411	834	900	1458	1552	1698	2684			
	TL (L/180)		235	538	1100	1188	1901	1976	2090	2791	3528	4205	7187
	Bearing		1.5/3.5	1.5/3.5	2.9/7.1	3.1/7.7	4.9/12.2	5.1/12.7	5.4/13.4	7.2/17.9	9.1/22.6	10.8/26.9	18.4/45.9
13	LL (L/240)		144	325	662	715	1162	1237	1355	2151			
	TL (L/180)		184	423	870	940	1535	1635	1792	2375	3003	3693	6059
	Bearing		1.5/3.5	1.5/3.5	2.5/6.1	2.7/6.6	4.3/10.7	4.6/11.4	5/12.5	6.6/16.5	8.4/20.9	10.3/25.6	16.8/42
14	LL (L/240)			261	533	576	940	1001	1097	1749	2536		
	TL (L/180)			338	699	756	1238	1320	1448	2045	2586	3180	5245
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.4/10.9	6.2/15.4	7.8/19.4	9.6/23.8	15.7/39.2
15	LL (L/240)			213	436	472	770	821	900	1440	2095		
	TL (L/180)			274	569	616	1012	1079	1185	1779	2250	2767	4586
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.8/14.3	7.3/18.1	8.9/22.2	14.7/36.7
16	LL (L/240)			176	361	390	639	681	747	1199	1749	2428	
	TL (L/180)			224	469	507	837	893	981	1561	1974	2429	4027
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5.4/13.4	6.8/17	8.4/20.8	13.8/34.4
17	LL (L/240)			147	302	327	536	571	627	1008	1474	2052	
	TL (L/180)			186	390	422	699	746	820	1326	1746	2148	3563
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.9/12.2	6.4/16	7.9/19.6	13/32.4
18	LL (L/240)				255	276	454	484	531	855	1254	1749	
	TL (L/180)				327	355	589	629	692	1122	1555	1913	3174
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	6.1/15.1	7.4/18.5	12.3/30.6
19	LL (L/240)				218	236	387	413	454	732	1075	1502	
	TL (L/180)				277	300	500	534	588	957	1393	1714	2845
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.7/14.3	7.1/17.6	11.6/29
20	LL (L/240)				187	203	333	355	390	631	928	1299	
	TL (L/180)				236	256	428	457	504	822	1215	1544	2564
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5.3/13.2	6.7/16.7	11.1/27.6
21	LL (L/240)				162	175	289	308	338	548	806	1130	
	TL (L/180)				203	220	369	394	434	710	1053	1398	2322
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	6.4/15.9	10.5/26.3
22	LL (L/240)					153	252	269	295	478	705	989	
	TL (L/180)					190	319	342	376	618	917	1272	2113
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	6.1/15.2	10.1/25.1
23	LL (L/240)						221	236	259	420	620	871	
	TL (L/180)						278	297	328	540	804	1136	1930
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.7/14.2	9.6/24
24	LL (L/240)						195	208	228	371	548	770	1749
	TL (L/180)						243	260	287	474	707	1002	1769
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.3/13.1	9.2/23
25	LL (L/240)						173	184	203	329	486	685	1559
	TL (L/180)						214	229	253	418	625	887	1628
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.9/22.1
26	LL (L/240)							164	180	293	434	611	1395
	TL (L/180)							202	223	370	555	789	1502
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	8.5/21.2
27	LL (L/240)								161	262	388	548	1254
	TL (L/180)								198	329	495	704	1390
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	8.2/20.4
28	LL (L/240)									236	349	492	1130
	TL (L/180)									294	442	631	1290
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.9/19.7
29	LL (L/240)									212	315	445	1022
	TL (L/180)									263	396	567	1200
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7.6/19
30	LL (L/240)									192	285	403	928
	TL (L/180)									236	357	511	1119
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	7.4/18.4
31	LL (L/240)									174	259	366	844
	TL (L/180)									212	322	461	1046
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	7.2/17.8
32	LL (L/240)									159	236	333	770
	TL (L/180)									191	291	418	979
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.9/17.2

Bearing=Minimum End / Intermediate Bearing Length (inches).

7" WIDTH													
Span (ft)	Condition	3.5"	5.5"	7.25"	9.25"	9.5"	11.25"	11.5"	11.875"	14"	16"	18"	24"
6	LL (L/240)			3939									
	TL (L/180)			4127	5871	6128	6907	7117	7326	8246	11812	13866	20658
	Bearing			4/9.9	5.7/14.1	5.9/14.7	6.6/16.5	6.8/17	7.1/17.6	7.9/19.7	11.3/28.2	13.3/33.2	19.8/49.3
7	LL (L/240)			2573									
	TL (L/180)			3375	4665	4845	5917	6097	6276	7064	10120	11880	17700
	Bearing			3.8/9.5	5.3/13.1	5.5/13.6	6.7/16.6	6.9/17.1	7/17.5	7.9/19.8	11.3/28.3	13.3/33.1	19.8/49.3
8	LL (L/240)			1766	3491	3756							
	TL (L/180)			2345	3887	4027	5099	5267	5489	6177	8851	10390	15481
	Bearing			3/7.5	5/12.5	5.2/12.9	6.6/16.3	6.8/16.8	7/17.5	7.9/19.7	11.3/28.3	13.3/33.2	19.8/49.3
9	LL (L/240)			1262	2518	2713							
	TL (L/180)			1671	3209	3363	4314	4446	4650	5488	7503	9232	13756
	Bearing			2.5/6.1	4.7/11.6	4.9/12.1	6.2/15.5	6.4/16	6.7/16.7	7.9/19.8	10.8/27	13.3/33.2	19.8/49.4
10	LL (L/240)			931	1872	2018	3237	3440	3756				
	TL (L/180)			1230	2482	2678	3660	3804	4023	4936	6222	7683	12375
	Bearing			2/5	4/10	4.3/10.8	5.9/14.7	6.1/15.2	6.5/16.1	7.9/19.8	10/24.9	12.3/30.7	19.8/49.3
11	LL (L/240)			706	1427	1540	2484	2641	2888				
	TL (L/180)			929	1888	2038	3021	3140	3322	4417	5352	6456	11246
	Bearing			1.7/4.2	3.4/8.4	3.6/9	5.4/13.3	5.6/13.9	5.9/14.7	7.8/19.5	9.5/23.6	11.4/28.4	19.8/49.3
12	LL (L/240)			548	1112	1200	1944	2069	2264	3578			
	TL (L/180)			717	1467	1584	2535	2634	2787	3722	4705	5607	9582
	Bearing			1.5/3.5	2.9/7.1	3.1/7.7	4.9/12.2	5.1/12.7	5.4/13.4	7.2/17.9	9.1/22.6	10.8/26.9	18.4/45.9
13	LL (L/240)			433	882	953	1549	1649	1806	2868			
	TL (L/180)			564	1160	1254	2047	2180	2389	3167	4004	4924	8078
	Bearing			1.5/3.5	2.5/6.1	2.7/6.6	4.3/10.7	4.6/11.4	5/12.5	6.6/16.5	8.4/20.9	10.3/25.6	16.8/42
14	LL (L/240)			348	711	769	1253	1334	1463	2332			
	TL (L/180)			451	932	1008	1651	1760	1930	2727	3448	4240	6993
	Bearing			1.5/3.5	2.2/5.3	2.3/5.8	3.8/9.3	4/10	4.4/10.9	6.2/15.4	7.8/19.4	9.6/23.8	15.7/39.2
15	LL (L/240)			284	582	629	1027	1094	1200	1920	2793		
	TL (L/180)			365	758	821	1350	1439	1580	2372	2999	3689	6115
	Bearing			1.5/3.5	1.9/4.7	2.1/5.1	3.3/8.2	3.5/8.8	3.9/9.6	5.8/14.3	7.3/18.1	8.9/22.2	14.7/36.7
16	LL (L/240)			235	481	521	852	908	996	1598	2332	3237	
	TL (L/180)			299	625	676	1116	1190	1308	2081	2632	3238	5369
	Bearing			1.5/3.5	1.7/4.1	1.8/4.5	2.9/7.3	3.1/7.8	3.4/8.5	5.4/13.4	6.8/17	8.4/20.8	13.8/34.4
17	LL (L/240)			196	403	436	715	762	836	1344	1966	2736	
	TL (L/180)			248	520	563	932	995	1093	1768	2328	2864	4750
	Bearing			1.5/3.5	1.5/3.7	1.6/4	2.6/6.5	2.8/6.9	3.1/7.6	4.9/12.2	6.4/16	7.9/19.6	13/32.4
18	LL (L/240)				341	368	605	645	708	1141	1672	2332	
	TL (L/180)				436	473	785	839	922	1496	2073	2551	4232
	Bearing				1.5/3.5	1.5/3.6	2.4/5.8	2.5/6.2	2.8/6.8	4.4/10.9	6.1/15.1	7.4/18.5	12.3/30.6
19	LL (L/240)				290	314	516	551	605	976	1433	2003	
	TL (L/180)				369	401	667	713	784	1276	1857	2286	3793
	Bearing				1.5/3.5	1.5/3.5	2.1/5.3	2.3/5.6	2.5/6.1	4/9.9	5.7/14.3	7.1/17.6	11.6/29
20	LL (L/240)				250	270	444	474	521	841	1237	1732	
	TL (L/180)				315	342	571	610	672	1096	1620	2059	3419
	Bearing				1.5/3.5	1.5/3.5	1.9/4.8	2.1/5.1	2.3/5.6	3.6/9	5.3/13.2	6.7/16.7	11.1/27.6
21	LL (L/240)				216	234	385	411	451	730	1075	1507	
	TL (L/180)				270	293	492	526	579	947	1404	1864	3096
	Bearing				1.5/3.5	1.5/3.5	1.8/4.3	1.9/4.6	2.1/5.1	3.3/8.2	4.8/12	6.4/15.9	10.5/26.3
22	LL (L/240)					204	336	358	394	637	940	1319	
	TL (L/180)					253	426	455	502	824	1223	1696	2817
	Bearing					1.5/3.5	1.6/4	1.7/4.2	1.9/4.6	3/7.5	4.4/11	6.1/15.2	10.1/25.1
23	LL (L/240)						294	314	345	560	826	1161	
	TL (L/180)						371	397	437	720	1072	1515	2573
	Bearing						1.5/3.6	1.6/3.9	1.7/4.3	2.8/6.9	4.1/10.1	5.7/14.2	9.6/24
24	LL (L/240)						260	277	305	494	730	1027	2332
	TL (L/180)						324	347	383	632	943	1336	2359
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.8/9.3	5.3/13.1	9.2/23
25	LL (L/240)						230	246	270	439	648	913	2079
	TL (L/180)						285	305	337	558	834	1183	2170
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.9	3.5/8.6	4.9/12.1	8.9/22.1
26	LL (L/240)							219	241	391	578	815	1861
	TL (L/180)							269	297	494	740	1052	2003
	Bearing							1.5/3.5	1.5/3.5	2.2/5.4	3.2/8	4.5/11.3	8.5/21.2
27	LL (L/240)								215	350	518	730	1672
	TL (L/180)								263	439	659	939	1854
	Bearing								1.5/3.5	2.1/5.1	3/7.5	4.2/10.5	8.2/20.4
28	LL (L/240)									314	465	657	1507
	TL (L/180)									392	589	841	1720
	Bearing									1.9/4.7	2.8/7	3.9/9.8	7.9/19.7
29	LL (L/240)									283	420	593	1363
	TL (L/180)									350	529	756	1601
	Bearing									1.8/4.4	2.6/6.5	3.7/9.2	7.6/19
30	LL (L/240)									256	380	537	1237
	TL (L/180)									314	475	681	1492
	Bearing									1.7/4.1	2.5/6.1	3.5/8.6	7.4/18.4
31	LL (L/240)									233	345	488	1126
	TL (L/180)									283	429	615	1395
	Bearing									1.6/3.9	2.3/5.7	3.3/8.1	7.2/17.8
32	LL (L/240)									212	314	444	1027
	TL (L/180)									255	388	557	1306
	Bearing									1.5/3.6	2.2/5.4	3.1/7.6	6.9/17.2

Bearing=Minimum End / Intermediate Bearing Length (inches).

GENERAL NOTES

- 1. Tables are formulated for all standard Evolution LVL beam widths including 1.5", 1.75", 3.5", 5.25", and 7". When multiple plies are joined properly side-by-side to achieve a larger assembly width, double the tabulated values for two-ply assemblies and triple for three-ply beam assemblies. Minimum bearing lengths shown for single-ply members apply equally to two-ply and three-ply built-up members. Refer to the Evolution LVL Connection Manual for specific fastening details.
- 2. Values shown are the maximum uniform loads, in pounds per lineal foot (plf), that can be applied to the beam in addition to its own self-weight.
- 3. Tables are based on uniform loads and the most restrictive conditions for simple or continuous spans under dry-use service conditions. For alternative load types, non-uniform loads, or special span configurations, design shall be performed in accordance with applicable engineering design standards.
- 4. Lateral support of beam compression edges is required at intervals of 24 inches (on center) or closer. For continuous spans, lateral support shall also be provided at the bottom compression edge at the same spacing.
- 5. Lateral support (blocking or headers) is mandatory at all beam bearing locations to prevent rotation and ensure load transfer.
- 6. Evolution LVL beams are manufactured without camber. Therefore, in addition to complying with the deflection limits of the applicable building code, long-term deflection due to creep under sustained loads must be evaluated during the design phase.
- 7. All 1.5" and 1.75" wide LVL members with nominal depths of 16", 18", and 24" are designed for use in multiple-member assemblies only. They are not intended for single-piece use.
- 8. To size a member for a span not explicitly listed in the tables, use the capacities designated for the next larger span shown.
- 9. For continuous beam systems with multiple spans, the shortest span must be at least 40% of the length of the adjacent longer span.
- 10. Bearing lengths are calculated based on a maximum allowable bearing stress of 500 psi for 2.1E Grade Evolution LVL. Bearing stresses cannot be increased for short-duration load cases. Bearing length must be increased if the supporting member's actual allowable bearing stress is less than 500 psi.

ROOF BEAM SIZING

- 1. To size a beam for use in a roof, it is necessary to check both live load and total load. When no live load is shown, total load will control. Spans shown are measured center-to-center of bearing.
- 2. Check local code for other deflection criteria.
- 3. Roof must have positive slope to prevent ponding.
- 4. Tables will accommodate beam slopes to a maximum of 2:12.