ALLOWABLE STRESS DESIGN VALUES FOR WET USE	
Grade	3200 F_b-2.3E-PTI (UC3B)
Modulus of Elasticity[4], E (X10⁶ psi)	1.6
Bending Stress[1], F_b(psi)	1984
Shear F_v (psi)	195
Compression Stress Perpendicular to Grain, $F_{c\perp}$ (psi)	450

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. $F_{c\perp}$ 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: $\Delta = \frac{270wL^4}{Ebd^3} + \frac{28.8wL^2}{}$

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

3200F_b-2.3E-PTI (UC3B) EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR WET 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)	689	1520	2464	3774	3955	5316	5525	5844	7795	9847	12101	20020
Allowable Shear (lbs.)	682	1072	1414	1804	1852	2194	2242	2316	2730	3120	3510	4680
Moment of Inertia (in⁴)	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

3200F_b-2.3E-PTI (UC3B) EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR WET 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)	804	1773	2875	4403	4614	6202	6446	6818	9094	11488	14118	23357
Allowable Shear (lbs.)	796	1251	1649	2104	2161	2559	2616	2702	3185	3640	4095	5460
Moment of Inertia (in⁴)	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

3200F_b-2.3E-PTI (UC3B) EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR WET 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)	1608	3546	5750	8807	9228	12405	12891	13636	18188	22976	28236	46713
Allowable Shear (lbs.)	1592	2502	3299	4209	4322	5119	5232	5403	6370	7280	8190	10920
Moment of Inertia (in⁴)	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

3200F_b-2.3E-PTI (UC3B) EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR WET 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)	/	5319	8625	13210	13841	18607	19337	20454	27283	34465	42354	70070
Allowable Shear (lbs.)	/	3754	4948	6313	6484	7678	7849	8105	9555	10920	12285	16380
Moment of Inertia (in⁴)	/	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

3200F_b-2.3E-PTI (UC3B) EVOLUTION LVL ALLOWABLE DESIGN VALUES FOR WET 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)	/	/	11500	17614	18455	24810	25782	27272	36377	45953	56472	93427
Allowable Shear (lbs.)	/	/	6598	8418	8645	10238	10465	10806	12740	14560	16380	21840
Moment of Inertia (in⁴)	/	/	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.

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF SNOW 115%
3200F$_b$-2.3E-PTI (UC3B)

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)	81	298										
	TL (L/180)	106	358	498	682	708	904	935	983	1316	1835	2549	2926
	Bearing	1.5/3.5	1.8/4.5	2.5/6.2	3.4/8.5	3.6/8.8	4.5/11.3	4.7/11.7	4.9/12.3	6.6/16.4	9.1/22.8	12.7/31.6	14.6/36.3
7	LL (L/240)	51	192										
	TL (L/180)	67	254	412	557	576	722	744	779	999	1263	1643	2507
	Bearing	1.5/3.5	1.5/3.7	2.4/6.0	3.3/8.1	3.4/8.4	4.2/10.5	4.4/10.8	4.6/11.3	5.8/14.5	7.4/18.3	9.6/23.8	14.6/36.3
8	LL (L/240)	35	131	289									
	TL (L/180)	45	172	333	471	486	603	620	647	814	998	1225	2192
	Bearing	1.5/3.5	1.5/3.5	2.3/5.6	3.2/7.9	3.3/8.1	4.0/10.0	4.2/10.3	4.3/10.8	5.4/13.5	6.7/16.6	8.2/20.3	14.6/36.3
9	LL (L/240)		93	206									
	TL (L/180)		121	263	403	421	518	532	554	689	832	997	1831
	Bearing		1.5/3.5	2.0/5.0	3.1/7.6	3.2/7.9	3.9/9.7	4.0/10.0	4.2/10.4	5.2/12.9	6.3/15.6	7.5/18.7	13.7/34.2
10	LL (L/240)		68	152	306	330							
	TL (L/180)		88	200	326	342	454	467	485	598	715	847	1391
	Bearing		1.5/3.5	1.7/4.2	2.8/6.8	2.9/7.2	3.8/9.5	3.9/9.8	4.1/10.1	5.0/12.5	6.0/14.9	7.1/17.6	11.6/28.9
11	LL (L/240)		51	116	233	252							
	TL (L/180)		66	151	269	282	379	394	417	529	628	737	1155
	Bearing		1.5/3.5	1.5/3.5	2.5/6.2	2.6/6.5	3.5/8.7	3.7/9.1	3.9/9.6	4.9/12.2	5.8/14.4	6.8/16.9	10.6/26.4
12	LL (L/240)		40	90	182	196							
	TL (L/180)		51	116	225	236	318	330	350	467	560	654	995
	Bearing		1.5/3.5	1.5/3.5	2.3/5.7	2.4/6.0	3.2/8.0	3.4/8.3	3.6/8.8	4.7/11.7	5.7/14.1	6.6/16.4	10.0/24.9
13	LL (L/240)			71	144	156	253	270	296				
	TL (L/180)			91	188	200	270	281	297	397	502	588	877
	Bearing			1.5/3.5	2.1/5.2	2.2/5.5	3.0/7.4	3.1/7.7	3.3/8.1	4.4/10.8	5.5/13.7	6.4/16.0	9.5/23.8
14	LL (L/240)			57	116	126	205	218	239				
	TL (L/180)			73	151	164	232	241	255	342	432	532	785
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	2.8/6.9	2.9/7.1	3.1/7.6	4.1/10.1	5.1/12.7	6.3/15.6	9.2/23.0
15	LL (L/240)			47	95	103	168	179	196				
	TL (L/180)			59	123	133	202	210	222	297	376	462	712
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.6/6.4	2.7/6.7	2.9/7.1	3.8/9.4	4.8/11.9	5.9/14.6	9.0/22.3
16	LL (L/240)			38	79	85	139	149	163				
	TL (L/180)			48	101	109	177	184	194	260	329	405	651
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.4/6.0	2.5/6.3	2.7/6.6	3.6/8.8	4.5/11.1	5.5/13.7	8.8/21.8
17	LL (L/240)				66	71	117	125	137	220			
	TL (L/180)				84	91	151	161	172	230	291	358	595
	Bearing				1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.5/6.2	3.3/8.3	4.2/10.5	5.2/12.9	8.5/21.2
18	LL (L/240)				56	60	99	106	116	187			
	TL (L/180)				70	76	127	136	149	204	259	319	530
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.2/7.8	4.0/9.9	4.9/12.1	8.1/20.1
19	LL (L/240)				48	51	84	90	99	160			
	TL (L/180)				59	64	108	115	127	183	231	285	474
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.0/7.4	3.8/9.4	4.6/11.5	7.6/19.0
20	LL (L/240)				41	44	73	78	85	138	202		
	TL (L/180)				50	55	92	98	108	164	208	257	427
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	2.9/7.1	3.6/8.9	4.4/10.9	7.3/18.1
21	LL (L/240)					38	63	67	74	119	176		
	TL (L/180)					47	79	85	93	148	188	232	386
	Bearing					1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.7/6.7	3.4/8.5	4.2/10.4	6.9/17.2
22	LL (L/240)						55	59	64	104	154		
	TL (L/180)						68	73	81	133	171	211	351
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.3/8.1	4.0/9.9	6.6/16.4
23	LL (L/240)						48	51	57	92	135	190	
	TL (L/180)						59	64	70	116	156	192	320
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.1/7.7	3.8/9.5	6.3/15.7
24	LL (L/240)						42	45	50	81	119	168	
	TL (L/180)						52	55	61	102	142	176	293
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.0/7.4	3.7/9.1	6.1/15.1
25	LL (L/240)							40	44	72	106	149	
	TL (L/180)							49	54	90	131	161	270
	Bearing							1.5/3.5	1.5/3.5	2.0/5.0	2.9/7.1	3.5/8.8	5.8/14.5
26	LL (L/240)								39	64	95	133	
	TL (L/180)								47	79	119	149	248
	Bearing								1.5/3.5	1.9/4.6	2.7/6.8	3.4/8.4	5.6/13.9
27	LL (L/240)									57	85	119	
	TL (L/180)									70	106	137	230
	Bearing									1.7/4.3	2.6/6.3	3.3/8.1	5.4/13.4
28	LL (L/240)									51	76	107	
	TL (L/180)									62	95	127	213
	Bearing									1.6/4.0	2.4/5.9	3.2/7.8	5.2/12.9
29	LL (L/240)									46	69	97	
	TL (L/180)									56	85	118	198
	Bearing									1.5/3.7	2.2/5.5	3.1/7.6	5.0/12.5
30	LL (L/240)									42	62	88	
	TL (L/180)									50	76	109	184
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	4.9/12.1
31	LL (L/240)										56	80	
	TL (L/180)										68	99	172
	Bearing										2.0/4.9	2.8/6.8	4.7/11.7
32	LL (L/240)										51	73	
	TL (L/180)										62	89	160
	Bearing										1.9/4.6	2.6/6.4	4.6/11.3

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

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF SNOW 115%
3200F$_b$-2.3E-PTI (UC3B)

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)	94	348										
	TL (L/180)	124	417	581	796	826	1054	1090	1147	1536	2140	2973	3414
	Bearing	1.5/3.5	1.8/4.5	2.5/6.2	3.4/8.5	3.6/8.8	4.5/11.3	4.7/11.7	4.9/12.3	6.6/16.4	9.1/22.8	12.7/31.6	14.6/36.3
7	LL (L/240)	60	224										
	TL (L/180)	78	296	481	649	672	842	868	909	1166	1473	1917	2925
	Bearing	1.5/3.5	1.5/3.7	2.4/6.0	3.3/8.1	3.4/8.4	4.2/10.5	4.4/10.8	4.6/11.3	5.8/14.5	7.4/18.3	9.6/23.8	14.6/36.3
8	LL (L/240)	40	152	337									
	TL (L/180)	52	200	389	549	567	703	724	755	949	1165	1429	2558
	Bearing	1.5/3.5	1.5/3.5	2.3/5.6	3.2/7.9	3.3/8.1	4.0/10.0	4.2/10.3	4.3/10.8	5.4/13.5	6.7/16.6	8.2/20.3	14.6/36.3
9	LL (L/240)		108	241									
	TL (L/180)		141	307	470	491	604	621	647	804	971	1164	2136
	Bearing		1.5/3.5	2.0/5.0	3.1/7.6	3.2/7.9	3.9/9.7	4.0/10.0	4.2/10.4	5.2/12.9	6.3/15.6	7.5/18.7	13.7/34.2
10	LL (L/240)		79	178	357	385							
	TL (L/180)		103	233	380	398	530	544	566	698	834	988	1623
	Bearing		1.5/3.5	1.7/4.2	2.8/6.8	2.9/7.2	3.8/9.5	3.9/9.8	4.1/10.1	5.0/12.5	6.0/14.9	7.1/17.6	11.6/28.9
11	LL (L/240)		60	135	272	294							
	TL (L/180)		77	176	313	328	442	460	486	617	733	860	1347
	Bearing		1.5/3.5	1.5/3.5	2.5/6.2	2.6/6.5	3.5/8.7	3.7/9.1	3.9/9.6	4.9/12.2	5.8/14.4	6.8/16.9	10.6/26.4
12	LL (L/240)		46	105	212	229							
	TL (L/180)		59	136	263	275	371	385	408	545	654	763	1161
	Bearing		1.5/3.5	1.5/3.5	2.3/5.7	2.4/6.0	3.2/8.0	3.4/8.3	3.6/8.8	4.7/11.7	5.7/14.1	6.6/16.4	10.0/24.9
13	LL (L/240)		37	83	168	182	296	315	345				
	TL (L/180)		46	107	220	234	315	328	347	463	586	686	1023
	Bearing		1.5/3.5	1.5/3.5	2.1/5.2	2.2/5.5	3.0/7.4	3.1/7.7	3.3/8.1	4.4/10.8	5.5/13.7	6.4/16.0	9.5/23.8
14	LL (L/240)			67	136	147	239	255	279				
	TL (L/180)			85	176	191	271	282	298	398	504	620	916
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	2.8/6.9	2.9/7.1	3.1/7.6	4.1/10.1	5.1/12.7	6.3/15.6	9.2/23.0
15	LL (L/240)			54	111	120	196	209	229				
	TL (L/180)			69	143	155	235	245	259	346	438	539	830
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.6/6.4	2.7/6.7	2.9/7.1	3.8/9.4	4.8/11.9	5.9/14.6	9.0/22.3
16	LL (L/240)			45	92	99	163	173	190				
	TL (L/180)			56	118	128	206	214	227	303	384	473	760
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.4/6.0	2.5/6.3	2.7/6.6	3.6/8.8	4.5/11.1	5.5/13.7	8.8/21.8
17	LL (L/240)			37	77	83	136	145	160	257			
	TL (L/180)			46	98	106	176	188	200	268	339	418	694
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.5/6.2	3.3/8.3	4.2/10.5	5.2/12.9	8.5/21.2
18	LL (L/240)				65	70	115	123	135	218			
	TL (L/180)				82	89	148	158	174	238	302	372	618
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.2/7.8	4.0/9.9	4.9/12.1	8.1/20.1
19	LL (L/240)				55	60	99	105	115	186			
	TL (L/180)				69	75	126	134	148	213	270	333	553
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.0/7.4	3.8/9.4	4.6/11.5	7.6/19.0
20	LL (L/240)				48	52	85	90	99	161	236		
	TL (L/180)				59	64	107	115	127	192	243	299	498
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	2.9/7.1	3.6/8.9	4.4/10.9	7.3/18.1
21	LL (L/240)				41	45	73	78	86	139	205		
	TL (L/180)				50	55	92	99	109	173	220	271	451
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.7/6.7	3.4/8.5	4.2/10.4	6.9/17.2
22	LL (L/240)					39	64	68	75	122	179		
	TL (L/180)					47	80	85	94	155	199	246	410
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.3/8.1	4.0/9.9	6.6/16.4
23	LL (L/240)						56	60	66	107	158	222	
	TL (L/180)						69	74	82	135	182	224	374
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.1/7.7	3.8/9.5	6.3/15.7
24	LL (L/240)						50	53	58	94	139	196	
	TL (L/180)						60	65	72	119	166	205	342
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.0/7.4	3.7/9.1	6.1/15.1
25	LL (L/240)						44	47	52	84	124	174	
	TL (L/180)						53	57	63	105	153	188	315
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	2.9/7.1	3.5/8.8	5.8/14.5
26	LL (L/240)							42	46	75	110	156	
	TL (L/180)							50	55	92	139	173	290
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.4/8.4	5.6/13.9
27	LL (L/240)								41	67	99	139	
	TL (L/180)								49	82	124	160	268
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.3/8.1	5.4/13.4
28	LL (L/240)									60	89	125	
	TL (L/180)									73	110	148	248
	Bearing									1.6/4.0	2.4/5.9	3.2/7.8	5.2/12.9
29	LL (L/240)									54	80	113	
	TL (L/180)									65	99	138	231
	Bearing									1.5/3.7	2.2/5.5	3.1/7.6	5.0/12.5
30	LL (L/240)									49	73	102	
	TL (L/180)									58	89	128	215
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	4.9/12.1
31	LL (L/240)									44	66	93	
	TL (L/180)									52	80	115	200
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	4.7/11.7
32	LL (L/240)									40	60	85	
	TL (L/180)									47	72	104	187
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.6/11.3

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

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF SNOW 115%
3200F_b-2.3E-PTI (UC3B)

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)	189	696										
	TL (L/180)	248	834	1162	1592	1651	2108	2181	2294	3071	4281	5947	6828
	Bearing	1.5/3.5	1.8/4.5	2.5/6.2	3.4/8.5	3.6/8.8	4.5/11.3	4.7/11.7	4.9/12.3	6.6/16.4	9.1/22.8	12.7/31.6	14.6/36.3
7	LL (L/240)	120	448										
	TL (L/180)	156	592	962	1299	1344	1684	1736	1817	2331	2947	3834	5849
	Bearing	1.5/3.5	1.5/3.7	2.4/6.0	3.3/8.1	3.4/8.4	4.2/10.5	4.4/10.8	4.6/11.3	5.8/14.5	7.4/18.3	9.6/23.8	14.6/36.3
8	LL (L/240)	81	305	674									
	TL (L/180)	104	401	778	1098	1135	1406	1447	1510	1899	2329	2857	5115
	Bearing	1.5/3.5	1.5/3.5	2.3/5.6	3.2/7.9	3.3/8.1	4.0/10.0	4.2/10.3	4.3/10.8	5.4/13.5	6.7/16.6	8.2/20.3	14.6/36.3
9	LL (L/240)		216	482									
	TL (L/180)		283	613	941	982	1208	1242	1294	1607	1941	2327	4273
	Bearing		1.5/3.5	2.0/5.0	3.1/7.6	3.2/7.9	3.9/9.7	4.0/10.0	4.2/10.4	5.2/12.9	6.3/15.6	7.5/18.7	13.7/34.2
10	LL (L/240)		159	356	715	770							
	TL (L/180)		206	467	760	797	1060	1089	1132	1395	1669	1975	3246
	Bearing		1.5/3.5	1.7/4.2	2.8/6.8	2.9/7.2	3.8/9.5	3.9/9.8	4.1/10.1	5.0/12.5	6.0/14.9	7.1/17.6	11.6/28.9
11	LL (L/240)		120	270	545	588							
	TL (L/180)		154	352	627	657	885	920	973	1233	1466	1720	2694
	Bearing		1.5/3.5	1.5/3.5	2.5/6.2	2.6/6.5	3.5/8.7	3.7/9.1	3.9/9.6	4.9/12.2	5.8/14.4	6.8/16.9	10.6/26.4
12	LL (L/240)		93	209	424	458							
	TL (L/180)		118	272	525	550	742	771	816	1090	1307	1525	2321
	Bearing		1.5/3.5	1.5/3.5	2.3/5.7	2.4/6.0	3.2/8.0	3.4/8.3	3.6/8.8	4.7/11.7	5.7/14.1	6.6/16.4	10.0/24.9
13	LL (L/240)		73	165	337	364	591	629	690				
	TL (L/180)		92	213	440	468	630	655	693	927	1172	1371	2046
	Bearing		1.5/3.5	1.5/3.5	2.1/5.2	2.2/5.5	3.0/7.4	3.1/7.7	3.3/8.1	4.4/10.8	5.5/13.7	6.4/16.0	9.5/23.8
14	LL (L/240)			133	272	293	478	509	558				
	TL (L/180)			170	353	382	542	563	596	797	1008	1241	1832
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	2.8/6.9	2.9/7.1	3.1/7.6	4.1/10.1	5.1/12.7	6.3/15.6	9.2/23.0
15	LL (L/240)			109	222	240	392	418	458				
	TL (L/180)			137	287	310	471	489	518	692	876	1079	1661
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.6/6.4	2.7/6.7	2.9/7.1	3.8/9.4	4.8/11.9	5.9/14.6	9.0/22.3
16	LL (L/240)			90	184	199	325	347	380				
	TL (L/180)			112	236	255	412	429	454	607	768	946	1519
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.4/6.0	2.5/6.3	2.7/6.6	3.6/8.8	4.5/11.1	5.5/13.7	8.8/21.8
17	LL (L/240)			75	154	166	273	291	319	513			
	TL (L/180)			93	196	212	352	376	400	536	679	836	1389
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.5/6.2	3.3/8.3	4.2/10.5	5.2/12.9	8.5/21.2
18	LL (L/240)				130	141	231	246	270	435			
	TL (L/180)				164	178	297	317	348	477	604	744	1236
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.2/7.8	4.0/9.9	4.9/12.1	8.1/20.1
19	LL (L/240)				111	120	197	210	231	373			
	TL (L/180)				139	150	252	269	296	426	540	665	1107
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.0/7.4	3.8/9.4	4.6/11.5	7.6/19.0
20	LL (L/240)				95	103	170	181	199	321	472		
	TL (L/180)				118	128	215	230	253	383	486	599	996
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	2.9/7.1	3.6/8.9	4.4/10.9	7.3/18.1
21	LL (L/240)				82	89	147	157	172	279	410		
	TL (L/180)				101	109	185	197	218	346	439	541	902
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.7/6.7	3.4/8.5	4.2/10.4	6.9/17.2
22	LL (L/240)					78	128	137	150	243	359		
	TL (L/180)					94	160	171	188	310	399	492	819
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.3/8.1	4.0/9.9	6.6/16.4
23	LL (L/240)						112	120	132	214	315	443	
	TL (L/180)						139	148	164	271	363	448	748
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.1/7.7	3.8/9.5	6.3/15.7
24	LL (L/240)						99	106	116	189	279	392	
	TL (L/180)						121	129	143	237	332	410	685
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.0/7.4	3.7/9.1	6.1/15.1
25	LL (L/240)						88	94	103	167	247	348	
	TL (L/180)						106	113	125	209	305	377	629
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	2.9/7.1	3.5/8.8	5.8/14.5
26	LL (L/240)							84	92	149	221	311	
	TL (L/180)							100	110	185	278	347	580
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.4/8.4	5.6/13.9
27	LL (L/240)								82	134	198	279	
	TL (L/180)								98	164	247	320	536
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.3/8.1	5.4/13.4
28	LL (L/240)									120	178	251	
	TL (L/180)									146	221	297	497
	Bearing									1.6/4.0	2.4/5.9	3.2/7.8	5.2/12.9
29	LL (L/240)									108	160	226	
	TL (L/180)									130	198	275	461
	Bearing									1.5/3.7	2.2/5.5	3.1/7.6	5.0/12.5
30	LL (L/240)									98	145	205	
	TL (L/180)									116	177	255	429
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	4.9/12.1
31	LL (L/240)									89	132	186	
	TL (L/180)									104	159	230	401
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	4.7/11.7
32	LL (L/240)									81	120	170	
	TL (L/180)									94	144	208	374
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.6/11.3

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF SNOW 115%
3200F_b-2.3E-PTI (UC3B)

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)		1045										
	TL (L/180)		1251	1743	2388	2477	3162	3271	3441	4607	6421	8920	10242
	Bearing		1.8/4.5	2.5/6.2	3.4/8.5	3.6/8.8	4.5/11.3	4.7/11.7	4.9/12.3	6.6/16.4	9.1/22.8	12.7/31.6	14.6/36.3
7	LL (L/240)		673										
	TL (L/180)		888	1443	1948	2016	2526	2605	2726	3497	4420	5750	8774
	Bearing		1.5/3.7	2.4/6.0	3.3/8.1	3.4/8.4	4.2/10.5	4.4/10.8	4.6/11.3	5.8/14.5	7.4/18.3	9.6/23.8	14.6/36.3
8	LL (L/240)		457	1011									
	TL (L/180)		601	1167	1647	1702	2109	2171	2265	2848	3494	4286	7673
	Bearing		1.5/3.5	2.3/5.6	3.2/7.9	3.3/8.1	4.0/10.0	4.2/10.3	4.3/10.8	5.4/13.5	6.7/16.6	8.2/20.3	14.6/36.3
9	LL (L/240)		324	722									
	TL (L/180)		424	920	1411	1473	1812	1863	1941	2411	2912	3491	6409
	Bearing		1.5/3.5	2.0/5.0	3.1/7.6	3.2/7.9	3.9/9.7	4.0/10.0	4.2/10.4	5.2/12.9	6.3/15.6	7.5/18.7	13.7/34.2
10	LL (L/240)		238	533	1072	1156							
	TL (L/180)		309	700	1141	1195	1590	1633	1698	2093	2503	2963	4869
	Bearing		1.5/3.5	1.7/4.2	2.8/6.8	2.9/7.2	3.8/9.5	3.9/9.8	4.1/10.1	5.0/12.5	6.0/14.9	7.1/17.6	11.6/28.9
11	LL (L/240)		180	404	817	882							
	TL (L/180)		232	528	940	985	1327	1379	1459	1850	2198	2580	4041
	Bearing		1.5/3.5	1.5/3.5	2.5/6.2	2.6/6.5	3.5/8.7	3.7/9.1	3.9/9.6	4.9/12.2	5.8/14.4	6.8/16.9	10.6/26.4
12	LL (L/240)		139	314	637	687							
	TL (L/180)		177	407	788	826	1112	1156	1223	1635	1961	2288	3482
	Bearing		1.5/3.5	1.5/3.5	2.3/5.7	2.4/6.0	3.2/8.0	3.4/8.3	3.6/8.8	4.7/11.7	5.7/14.1	6.6/16.4	10.0/24.9
13	LL (L/240)		110	248	505	546	887	944	1034				
	TL (L/180)		138	320	659	701	945	983	1040	1390	1758	2057	3069
	Bearing		1.5/3.5	1.5/3.5	2.1/5.2	2.2/5.5	3.0/7.4	3.1/7.7	3.3/8.1	4.4/10.8	5.5/13.7	6.4/16.0	9.5/23.8
14	LL (L/240)			200	407	440	717	764	838				
	TL (L/180)			255	529	572	813	845	894	1195	1513	1861	2749
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	2.8/6.9	2.9/7.1	3.1/7.6	4.1/10.1	5.1/12.7	6.3/15.6	9.2/23.0
15	LL (L/240)			163	333	360	588	627	687				
	TL (L/180)			206	430	466	706	734	777	1039	1315	1618	2491
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.6/6.4	2.7/6.7	2.9/7.1	3.8/9.4	4.8/11.9	5.9/14.6	9.0/22.3
16	LL (L/240)			135	276	298	488	520	571				
	TL (L/180)			168	354	383	618	643	680	910	1152	1419	2279
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.4/6.0	2.5/6.3	2.7/6.6	3.6/8.8	4.5/11.1	5.5/13.7	8.8/21.8
17	LL (L/240)			112	231	250	409	436	479	770			
	TL (L/180)			139	294	318	529	564	601	804	1018	1254	2083
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.5/6.2	3.3/8.3	4.2/10.5	5.2/12.9	8.5/21.2
18	LL (L/240)				195	211	346	369	405	653			
	TL (L/180)				246	267	445	475	523	715	905	1115	1854
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.2/7.8	4.0/9.9	4.9/12.1	8.1/20.1
19	LL (L/240)				166	180	296	315	346	559			
	TL (L/180)				208	226	377	403	444	639	810	998	1660
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.0/7.4	3.8/9.4	4.6/11.5	7.6/19.0
20	LL (L/240)				143	155	254	271	298	482	708		
	TL (L/180)				177	192	322	344	380	575	729	898	1495
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	2.9/7.1	3.6/8.9	4.4/10.9	7.3/18.1
21	LL (L/240)				124	134	220	235	258	418	615		
	TL (L/180)				151	164	277	296	327	520	659	812	1352
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.7/6.7	3.4/8.5	4.2/10.4	6.9/17.2
22	LL (L/240)					117	192	205	225	365	538		
	TL (L/180)					141	239	256	283	466	598	738	1229
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.3/8.1	4.0/9.9	6.6/16.4
23	LL (L/240)						169	180	198	321	473	665	
	TL (L/180)						208	222	246	406	545	673	1121
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.1/7.7	3.8/9.5	6.3/15.7
24	LL (L/240)						149	159	174	283	418	588	
	TL (L/180)						181	194	215	356	499	615	1027
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.0/7.4	3.7/9.1	6.1/15.1
25	LL (L/240)						132	141	155	251	371	523	
	TL (L/180)						159	170	188	314	458	565	944
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	2.9/7.1	3.5/8.8	5.8/14.5
26	LL (L/240)							125	138	224	331	467	
	TL (L/180)							150	166	277	417	520	870
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.4/8.4	5.6/13.9
27	LL (L/240)								123	200	296	418	
	TL (L/180)								146	246	371	481	804
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.3/8.1	5.4/13.4
28	LL (L/240)									180	266	376	
	TL (L/180)									219	331	445	745
	Bearing									1.6/4.0	2.4/5.9	3.2/7.8	5.2/12.9
29	LL (L/240)									162	240	339	
	TL (L/180)									195	296	413	692
	Bearing									1.5/3.7	2.2/5.5	3.1/7.6	5.0/12.5
30	LL (L/240)									147	218	307	
	TL (L/180)									175	266	383	644
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	4.9/12.1
31	LL (L/240)									133	198	279	
	TL (L/180)									156	239	345	601
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	4.7/11.7
32	LL (L/240)									121	180	254	
	TL (L/180)									141	216	312	562
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.6/11.3

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF SNOW 115%
3200F_b-2.3E-PTI (UC3B)

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)			2324	3184	3303	4216	4362	4589	6142	8561	11894	13656
	Bearing			2.5/6.2	3.4/8.5	3.6/8.8	4.5/11.3	4.7/11.7	4.9/12.3	6.6/16.4	9.1/22.8	12.7/31.6	14.6/36.3
7	LL (L/240)												
	TL (L/180)			1925	2598	2688	3368	3473	3634	4663	5893	7667	11698
	Bearing			2.4/6.0	3.3/8.1	3.4/8.4	4.2/10.5	4.4/10.8	4.6/11.3	5.8/14.5	7.4/18.3	9.6/23.8	14.6/36.3
8	LL (L/240)			1348									
	TL (L/180)			1556	2196	2269	2812	2894	3020	3797	4659	5715	10230
	Bearing			2.3/5.6	3.2/7.9	3.3/8.1	4.0/10.0	4.2/10.3	4.3/10.8	5.4/13.5	6.7/16.6	8.2/20.3	14.6/36.3
9	LL (L/240)			963									
	TL (L/180)			1226	1882	1964	2416	2484	2588	3214	3882	4654	8545
	Bearing			2.0/5.0	3.1/7.6	3.2/7.9	3.9/9.7	4.0/10.0	4.2/10.4	5.2/12.9	6.3/15.6	7.5/18.7	13.7/34.2
10	LL (L/240)			711	1429	1541							
	TL (L/180)			933	1521	1594	2119	2177	2265	2790	3338	3951	6492
	Bearing			1.7/4.2	2.8/6.8	2.9/7.2	3.8/9.5	3.9/9.8	4.1/10.1	5.0/12.5	6.0/14.9	7.1/17.6	11.6/28.9
11	LL (L/240)			539	1089	1176							
	TL (L/180)			704	1254	1314	1769	1839	1946	2467	2931	3440	5388
	Bearing			1.5/3.5	2.5/6.2	2.6/6.5	3.5/8.7	3.7/9.1	3.9/9.6	4.9/12.2	5.8/14.4	6.8/16.9	10.6/26.4
12	LL (L/240)			418	849	916							
	TL (L/180)			543	1050	1101	1483	1542	1631	2180	2614	3051	4642
	Bearing			1.5/3.5	2.3/5.7	2.4/6.0	3.2/8.0	3.4/8.3	3.6/8.8	4.7/11.7	5.7/14.1	6.6/16.4	10.0/24.9
13	LL (L/240)			331	673	727	1182	1259	1379				
	TL (L/180)			426	879	935	1260	1310	1386	1853	2344	2742	4092
	Bearing			1.5/3.5	2.1/5.2	2.2/5.5	3.0/7.4	3.1/7.7	3.3/8.1	4.4/10.8	5.5/13.7	6.4/16.0	9.5/23.8
14	LL (L/240)			266	543	587	957	1019	1117				
	TL (L/180)			340	705	763	1084	1126	1192	1594	2017	2482	3665
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	2.8/6.9	2.9/7.1	3.1/7.6	4.1/10.1	5.1/12.7	6.3/15.6	9.2/23.0
15	LL (L/240)			217	444	480	784	836	916				
	TL (L/180)			275	573	621	941	978	1035	1385	1753	2157	3322
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.6/6.4	2.7/6.7	2.9/7.1	3.8/9.4	4.8/11.9	5.9/14.6	9.0/22.3
16	LL (L/240)			179	368	397	651	693	761				
	TL (L/180)			225	472	511	824	857	907	1214	1537	1892	3039
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.4/6.0	2.5/6.3	2.7/6.6	3.6/8.8	4.5/11.1	5.5/13.7	8.8/21.8
17	LL (L/240)			150	308	333	546	582	638	1026			
	TL (L/180)			185	392	425	705	752	801	1072	1357	1672	2777
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.5/6.2	3.3/8.3	4.2/10.5	5.2/12.9	8.5/21.2
18	LL (L/240)				260	281	462	492	541	871			
	TL (L/180)				328	356	593	633	697	953	1207	1487	2472
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.2/7.8	4.0/9.9	4.9/12.1	8.1/20.1
19	LL (L/240)				222	240	394	420	462	745			
	TL (L/180)				277	301	503	537	592	852	1080	1331	2213
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.0/7.4	3.8/9.4	4.6/11.5	7.6/19.0
20	LL (L/240)				191	206	339	362	397	642	944		
	TL (L/180)				235	256	430	459	506	767	972	1198	1993
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	2.9/7.1	3.6/8.9	4.4/10.9	7.3/18.1
21	LL (L/240)				165	179	294	314	345	557	821		
	TL (L/180)				201	219	369	395	435	693	878	1083	1803
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.7/6.7	3.4/8.5	4.2/10.4	6.9/17.2
22	LL (L/240)					156	256	273	301	487	717		
	TL (L/180)					188	319	341	377	621	798	983	1639
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.3/8.1	4.0/9.9	6.6/16.4
23	LL (L/240)						225	240	264	427	631	887	
	TL (L/180)						277	297	328	542	727	897	1495
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.1/7.7	3.8/9.5	6.3/15.7
24	LL (L/240)						198	212	233	377	557	784	
	TL (L/180)						242	259	286	475	665	821	1369
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.0/7.4	3.7/9.1	6.1/15.1
25	LL (L/240)						176	188	206	335	495	697	
	TL (L/180)						212	227	251	418	610	753	1258
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	2.9/7.1	3.5/8.8	5.8/14.5
26	LL (L/240)							167	184	298	441	622	
	TL (L/180)							199	221	370	556	694	1159
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.4/8.4	5.6/13.9
27	LL (L/240)								164	267	395	557	
	TL (L/180)								195	328	495	641	1072
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.3/8.1	5.4/13.4
28	LL (L/240)									240	355	501	
	TL (L/180)									292	441	593	993
	Bearing									1.6/4.0	2.4/5.9	3.2/7.8	5.2/12.9
29	LL (L/240)									216	321	453	
	TL (L/180)									260	395	551	923
	Bearing									1.5/3.7	2.2/5.5	3.1/7.6	5.0/12.5
30	LL (L/240)									196	290	410	
	TL (L/180)									233	355	510	859
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	4.9/12.1
31	LL (L/240)									178	263	372	
	TL (L/180)									209	319	460	801
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	4.7/11.7
32	LL (L/240)									162	240	339	
	TL (L/180)									187	288	416	749
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.6/11.3

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF NON-SNOW 125%
3200F$_b$-2.3E-PTI (UC3B)

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)	81	298										
	TL (L/180)	106	391	547	753	781	1005	1041	1098	1504	2216	2771	3126
	Bearing	1.5/3.5	2.0/4.9	2.8/6.8	3.8/9.4	3.9/9.7	5.0/12.5	5.2/13.0	5.5/13.7	7.5/18.7	11.0/27.5	13.8/34.4	15.5/38.8
7	LL (L/240)	51	192	421									
	TL (L/180)	67	254	452	612	634	797	823	862	1117	1436	1984	2678
	Bearing	1.5/3.5	1.5/3.7	2.7/6.6	3.6/8.9	3.7/9.2	4.7/11.6	4.8/12.0	5.0/12.5	6.5/16.2	8.4/20.8	11.5/28.7	15.5/38.8
8	LL (L/240)	35	131	289									
	TL (L/180)	45	172	363	516	534	663	683	713	902	1116	1389	2342
	Bearing	1.5/3.5	1.5/3.5	2.5/6.1	3.5/8.6	3.6/8.9	4.4/11.0	4.6/11.4	4.8/11.9	6.0/15.0	7.4/18.5	9.2/23.0	15.5/38.8
9	LL (L/240)		93	206	412	444							
	TL (L/180)		121	272	439	460	569	585	610	760	923	1115	2081
	Bearing		1.5/3.5	2.1/5.1	3.3/8.2	3.5/8.6	4.3/10.7	4.4/11.0	4.6/11.4	5.7/14.2	6.9/17.3	8.4/20.8	15.5/38.8
10	LL (L/240)		68	152	306	330							
	TL (L/180)		88	200	355	372	498	512	533	658	790	940	1604
	Bearing		1.5/3.5	1.7/4.2	3.0/7.4	3.1/7.8	4.2/10.4	4.3/10.7	4.5/11.1	5.5/13.7	6.6/16.5	7.8/19.5	13.3/33.3
11	LL (L/240)		51	116	233	252	406						
	TL (L/180)		66	151	292	306	413	429	454	581	692	815	1303
	Bearing		1.5/3.5	1.5/3.5	2.7/6.8	2.9/7.1	3.8/9.5	4.0/9.9	4.2/10.4	5.4/13.3	6.4/15.9	7.5/18.7	11.9/29.8
12	LL (L/240)		40	90	182	196	318	338	370				
	TL (L/180)		51	116	238	257	346	360	380	508	616	721	1112
	Bearing		1.5/3.5	1.5/3.5	2.4/6.0	2.6/6.5	3.5/8.7	3.6/9.0	3.9/9.6	5.1/12.7	6.2/15.4	7.2/18.0	11.1/27.8
13	LL (L/240)			71	144	156	253	270	296				
	TL (L/180)			91	188	204	294	306	323	432	547	647	975
	Bearing			1.5/3.5	2.1/5.2	2.3/5.6	3.2/8.0	3.4/8.4	3.6/8.8	4.7/11.8	6.0/14.9	7.1/17.6	10.6/26.4
14	LL (L/240)			57	116	126	205	218	239				
	TL (L/180)			73	151	164	253	263	278	372	470	579	870
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	3.0/7.5	3.1/7.8	3.3/8.2	4.4/10.9	5.5/13.8	6.8/16.9	10.2/25.4
15	LL (L/240)			47	95	103	168	179	196	314			
	TL (L/180)			59	123	133	219	228	242	323	409	503	787
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.8/7.0	2.9/7.2	3.1/7.7	4.1/10.2	5.2/12.9	6.4/15.8	9.9/24.7
16	LL (L/240)			38	79	85	139	149	163	262			
	TL (L/180)			48	101	109	181	193	212	283	359	441	718
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.5/6.2	2.7/6.6	2.9/7.2	3.9/9.6	4.9/12.1	6.0/14.8	9.6/24.0
17	LL (L/240)				66	71	117	125	137	220			
	TL (L/180)				84	91	151	161	177	250	317	390	648
	Bearing				1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.6/6.4	3.6/9.0	4.6/11.4	5.6/14.0	9.3/23.1
18	LL (L/240)				56	60	99	106	116	187	273		
	TL (L/180)				70	76	127	136	149	223	282	347	577
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.4/8.5	4.3/10.7	5.3/13.2	8.7/21.8
19	LL (L/240)				48	51	84	90	99	160	234		
	TL (L/180)				59	64	108	115	127	199	252	311	516
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.3/8.1	4.1/10.2	5.0/12.5	8.3/20.6
20	LL (L/240)				41	44	73	78	85	138	202		
	TL (L/180)				50	55	92	98	108	177	227	280	465
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	3.1/7.6	3.9/9.7	4.8/11.9	7.9/19.6
21	LL (L/240)					38	63	67	74	119	176	247	
	TL (L/180)					47	79	85	93	153	205	253	421
	Bearing					1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.8/6.9	3.7/9.2	4.6/11.3	7.5/18.7
22	LL (L/240)						55	59	64	104	154	216	
	TL (L/180)						68	73	81	133	186	230	383
	Bearing						1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.5/8.8	4.4/10.8	7.2/17.8
23	LL (L/240)						48	51	57	92	135	190	
	TL (L/180)						59	64	70	116	170	210	349
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.4/8.4	4.2/10.3	6.9/17.1
24	LL (L/240)						42	45	50	81	119	168	
	TL (L/180)						52	55	61	102	152	192	320
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.2/7.9	4.0/9.9	6.6/16.4
25	LL (L/240)							40	44	72	106	149	
	TL (L/180)							49	54	90	134	176	294
	Bearing							1.5/3.5	1.5/3.5	2.0/5.0	3.0/7.3	3.8/9.5	6.3/15.7
26	LL (L/240)								39	64	95	133	
	TL (L/180)								47	79	119	162	271
	Bearing								1.5/3.5	1.9/4.6	2.7/6.8	3.7/9.1	6.1/15.1
27	LL (L/240)									57	85	119	
	TL (L/180)									70	106	150	251
	Bearing									1.7/4.3	2.6/6.3	3.6/8.8	5.8/14.5
28	LL (L/240)									51	76	107	
	TL (L/180)									62	95	135	232
	Bearing									1.6/4.0	2.4/5.9	3.4/8.3	5.6/14.0
29	LL (L/240)									46	69	97	
	TL (L/180)									56	85	122	216
	Bearing									1.5/3.7	2.2/5.5	3.1/7.8	5.4/13.5
30	LL (L/240)									42	62	88	
	TL (L/180)									50	76	109	201
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	5.3/13.1
31	LL (L/240)										56	80	184
	TL (L/180)										68	99	188
	Bearing										2.0/4.9	2.8/6.8	5.1/12.7
32	LL (L/240)										51	73	168
	TL (L/180)										62	89	175
	Bearing										1.9/4.6	2.6/6.4	4.9/12.3

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

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF NON-SNOW 125%
3200F_b-2.3E-PTI (UC3B)

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)	94	348										
	TL (L/180)	124	456	638	878	912	1172	1215	1281	1755	2585	3233	3647
	Bearing	1.5/3.5	2.0/4.9	2.8/6.8	3.8/9.4	3.9/9.7	5.0/12.5	5.2/13.0	5.5/13.7	7.5/18.7	11.0/27.5	13.8/34.4	15.5/38.8
7	LL (L/240)	60	224	491									
	TL (L/180)	78	296	527	714	739	930	960	1006	1303	1676	2314	3124
	Bearing	1.5/3.5	1.5/3.7	2.7/6.6	3.6/8.9	3.7/9.2	4.7/11.6	4.8/12.0	5.0/12.5	6.5/16.2	8.4/20.8	11.5/28.7	15.5/38.8
8	LL (L/240)	40	152	337									
	TL (L/180)	52	200	423	602	623	774	797	832	1052	1302	1620	2732
	Bearing	1.5/3.5	1.5/3.5	2.5/6.1	3.5/8.6	3.6/8.9	4.4/11.0	4.6/11.4	4.8/11.9	6.0/15.0	7.4/18.5	9.2/23.0	15.5/38.8
9	LL (L/240)		108	241	481	518							
	TL (L/180)		141	317	512	536	664	682	711	887	1077	1301	2427
	Bearing		1.5/3.5	2.1/5.1	3.3/8.2	3.5/8.6	4.3/10.7	4.4/11.0	4.6/11.4	5.7/14.2	6.9/17.3	8.4/20.8	15.5/38.8
10	LL (L/240)		79	178	357	385							
	TL (L/180)		103	233	414	434	581	597	621	768	922	1096	1871
	Bearing		1.5/3.5	1.7/4.2	3.0/7.4	3.1/7.8	4.2/10.4	4.3/10.7	4.5/11.1	5.5/13.7	6.6/16.5	7.8/19.5	13.3/33.3
11	LL (L/240)		60	135	272	294	474						
	TL (L/180)		77	176	341	357	481	500	529	678	807	951	1520
	Bearing		1.5/3.5	1.5/3.5	2.7/6.8	2.9/7.1	3.8/9.5	4.0/9.9	4.2/10.4	5.4/13.3	6.4/15.9	7.5/18.7	11.9/29.8
12	LL (L/240)		46	105	212	229	371	395	432				
	TL (L/180)		59	136	278	300	404	419	444	593	719	841	1298
	Bearing		1.5/3.5	1.5/3.5	2.4/6.0	2.6/6.5	3.5/8.7	3.6/9.0	3.9/9.6	5.1/12.7	6.2/15.4	7.2/18.0	11.1/27.8
13	LL (L/240)		37	83	168	182	296	315	345				
	TL (L/180)		46	107	220	238	343	357	377	504	638	755	1138
	Bearing		1.5/3.5	1.5/3.5	2.1/5.2	2.3/5.6	3.2/8.0	3.4/8.4	3.6/8.8	4.7/11.8	6.0/14.9	7.1/17.6	10.6/26.4
14	LL (L/240)			67	136	147	239	255	279				
	TL (L/180)			85	176	191	295	307	324	434	549	675	1015
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	3.0/7.5	3.1/7.8	3.3/8.2	4.4/10.9	5.5/13.8	6.8/16.9	10.2/25.4
15	LL (L/240)			54	111	120	196	209	229	366			
	TL (L/180)			69	143	155	256	266	282	377	477	587	918
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.8/7.0	2.9/7.2	3.1/7.7	4.1/10.2	5.2/12.9	6.4/15.8	9.9/24.7
16	LL (L/240)			45	92	99	163	173	190	305			
	TL (L/180)			56	118	128	211	225	247	330	418	515	838
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.5/6.2	2.7/6.6	2.9/7.2	3.9/9.6	4.9/12.1	6.0/14.8	9.6/24.0
17	LL (L/240)			37	77	83	136	145	160	257			
	TL (L/180)			46	98	106	176	188	207	292	370	455	756
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.6/6.4	3.6/9.0	4.6/11.4	5.6/14.0	9.3/23.1
18	LL (L/240)				65	70	115	123	135	218	319		
	TL (L/180)				82	89	148	158	174	260	329	405	673
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.4/8.5	4.3/10.7	5.3/13.2	8.7/21.8
19	LL (L/240)				55	60	99	105	115	186	273		
	TL (L/180)				69	75	126	134	148	232	294	362	603
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.3/8.1	4.1/10.2	5.0/12.5	8.3/20.6
20	LL (L/240)				48	52	85	90	99	161	236		
	TL (L/180)				59	64	107	115	127	207	265	326	543
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	3.1/7.6	3.9/9.7	4.8/11.9	7.9/19.6
21	LL (L/240)				41	45	73	78	86	139	205	288	
	TL (L/180)				50	55	92	99	109	179	239	295	491
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.8/6.9	3.7/9.2	4.6/11.3	7.5/18.7
22	LL (L/240)					39	64	68	75	122	179	252	
	TL (L/180)					47	80	85	94	155	217	268	446
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.5/8.8	4.4/10.8	7.2/17.8
23	LL (L/240)						56	60	66	107	158	222	
	TL (L/180)						69	74	82	135	198	244	407
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.4/8.4	4.2/10.3	6.9/17.1
24	LL (L/240)						50	53	58	94	139	196	
	TL (L/180)						60	65	72	119	178	224	373
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.2/7.9	4.0/9.9	6.6/16.4
25	LL (L/240)						44	47	52	84	124	174	
	TL (L/180)						53	57	63	105	157	206	343
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	3.0/7.3	3.8/9.5	6.3/15.7
26	LL (L/240)							42	46	75	110	156	
	TL (L/180)							50	55	92	139	189	316
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.7/9.1	6.1/15.1
27	LL (L/240)								41	67	99	139	
	TL (L/180)								49	82	124	175	292
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.6/8.8	5.8/14.5
28	LL (L/240)									60	89	125	
	TL (L/180)									73	110	158	271
	Bearing									1.6/4.0	2.4/5.9	3.4/8.3	5.6/14.0
29	LL (L/240)									54	80	113	
	TL (L/180)									65	99	142	252
	Bearing									1.5/3.7	2.2/5.5	3.1/7.8	5.4/13.5
30	LL (L/240)									49	73	102	
	TL (L/180)									58	89	128	234
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	5.3/13.1
31	LL (L/240)									44	66	93	215
	TL (L/180)									52	80	115	219
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	5.1/12.7
32	LL (L/240)									40	60	85	196
	TL (L/180)									47	72	104	205
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.9/12.3

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

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF NON-SNOW 125%
3200F_b-2.3E-PTI (UC3B)

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)	189	696										
	TL (L/180)	248	913	1275	1757	1823	2345	2429	2561	3509	5171	6466	7294
	Bearing	1.5/3.5	2.0/4.9	2.8/6.8	3.8/9.4	3.9/9.7	5.0/12.5	5.2/13.0	5.5/13.7	7.5/18.7	11.0/27.5	13.8/34.4	15.5/38.8
7	LL (L/240)	120	448	982									
	TL (L/180)	156	592	1054	1428	1478	1860	1920	2011	2605	3351	4629	6249
	Bearing	1.5/3.5	1.5/3.7	2.7/6.6	3.6/8.9	3.7/9.2	4.7/11.6	4.8/12.0	5.0/12.5	6.5/16.2	8.4/20.8	11.5/28.7	15.5/38.8
8	LL (L/240)	81	305	674									
	TL (L/180)	104	401	846	1205	1245	1548	1594	1665	2105	2603	3240	5465
	Bearing	1.5/3.5	1.5/3.5	2.5/6.1	3.5/8.6	3.6/8.9	4.4/11.0	4.6/11.4	4.8/11.9	6.0/15.0	7.4/18.5	9.2/23.0	15.5/38.8
9	LL (L/240)		216	482	961	1036							
	TL (L/180)		283	635	1024	1073	1327	1365	1423	1774	2154	2601	4855
	Bearing		1.5/3.5	2.1/5.1	3.3/8.2	3.5/8.6	4.3/10.7	4.4/11.0	4.6/11.4	5.7/14.2	6.9/17.3	8.4/20.8	15.5/38.8
10	LL (L/240)		159	356	715	770							
	TL (L/180)		206	467	827	867	1162	1194	1243	1536	1844	2193	3742
	Bearing		1.5/3.5	1.7/4.2	3.0/7.4	3.1/7.8	4.2/10.4	4.3/10.7	4.5/11.1	5.5/13.7	6.6/16.5	7.8/19.5	13.3/33.3
11	LL (L/240)		120	270	545	588	948						
	TL (L/180)		154	352	682	715	963	1001	1059	1355	1615	1902	3040
	Bearing		1.5/3.5	1.5/3.5	2.7/6.8	2.9/7.1	3.8/9.5	4.0/9.9	4.2/10.4	5.4/13.3	6.4/15.9	7.5/18.7	11.9/29.8
12	LL (L/240)		93	209	424	458	742	790	864				
	TL (L/180)		118	272	556	599	807	839	888	1186	1438	1682	2595
	Bearing		1.5/3.5	1.5/3.5	2.4/6.0	2.6/6.5	3.5/8.7	3.6/9.0	3.9/9.6	5.1/12.7	6.2/15.4	7.2/18.0	11.1/27.8
13	LL (L/240)		73	165	337	364	591	629	690				
	TL (L/180)		92	213	440	475	686	713	755	1008	1275	1509	2275
	Bearing		1.5/3.5	1.5/3.5	2.1/5.2	2.3/5.6	3.2/8.0	3.4/8.4	3.6/8.8	4.7/11.8	6.0/14.9	7.1/17.6	10.6/26.4
14	LL (L/240)			133	272	293	478	509	558				
	TL (L/180)			170	353	382	590	613	649	867	1098	1350	2031
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	3.0/7.5	3.1/7.8	3.3/8.2	4.4/10.9	5.5/13.8	6.8/16.9	10.2/25.4
15	LL (L/240)			109	222	240	392	418	458	733			
	TL (L/180)			137	287	310	511	533	564	754	954	1174	1836
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.8/7.0	2.9/7.2	3.1/7.7	4.1/10.2	5.2/12.9	6.4/15.8	9.9/24.7
16	LL (L/240)			90	184	199	325	347	380	610			
	TL (L/180)			112	236	255	422	451	494	661	837	1030	1676
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.5/6.2	2.7/6.6	2.9/7.2	3.9/9.6	4.9/12.1	6.0/14.8	9.6/24.0
17	LL (L/240)			75	154	166	273	291	319	513			
	TL (L/180)			93	196	212	352	376	414	584	739	910	1511
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.6/6.4	3.6/9.0	4.6/11.4	5.6/14.0	9.3/23.1
18	LL (L/240)				130	141	231	246	270	435	638		
	TL (L/180)				164	178	297	317	348	519	658	810	1345
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.4/8.5	4.3/10.7	5.3/13.2	8.7/21.8
19	LL (L/240)				111	120	197	210	231	373	547		
	TL (L/180)				139	150	252	269	296	465	589	725	1205
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.3/8.1	4.1/10.2	5.0/12.5	8.3/20.6
20	LL (L/240)				95	103	170	181	199	321	472		
	TL (L/180)				118	128	215	230	253	414	530	652	1085
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	3.1/7.6	3.9/9.7	4.8/11.9	7.9/19.6
21	LL (L/240)				82	89	147	157	172	279	410	575	
	TL (L/180)				101	109	185	197	218	357	479	590	982
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.8/6.9	3.7/9.2	4.6/11.3	7.5/18.7
22	LL (L/240)					78	128	137	150	243	359	504	
	TL (L/180)					94	160	171	188	310	435	536	893
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.5/8.8	4.4/10.8	7.2/17.8
23	LL (L/240)						112	120	132	214	315	443	
	TL (L/180)						139	148	164	271	396	489	815
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.4/8.4	4.2/10.3	6.9/17.1
24	LL (L/240)						99	106	116	189	279	392	
	TL (L/180)						121	129	143	237	355	448	746
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.2/7.9	4.0/9.9	6.6/16.4
25	LL (L/240)						88	94	103	167	247	348	
	TL (L/180)						106	113	125	209	314	411	686
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	3.0/7.3	3.8/9.5	6.3/15.7
26	LL (L/240)							84	92	149	221	311	
	TL (L/180)							100	110	185	278	379	632
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.7/9.1	6.1/15.1
27	LL (L/240)								82	134	198	279	
	TL (L/180)								98	164	247	350	585
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.6/8.8	5.8/14.5
28	LL (L/240)									120	178	251	
	TL (L/180)									146	221	316	542
	Bearing									1.6/4.0	2.4/5.9	3.4/8.3	5.6/14.0
29	LL (L/240)									108	160	226	
	TL (L/180)									130	198	284	503
	Bearing									1.5/3.7	2.2/5.5	3.1/7.8	5.4/13.5
30	LL (L/240)									98	145	205	
	TL (L/180)									116	177	255	469
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	5.3/13.1
31	LL (L/240)									89	132	186	430
	TL (L/180)									104	159	230	438
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	5.1/12.7
32	LL (L/240)									81	120	170	392
	TL (L/180)									94	144	208	409
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.9/12.3

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF NON-SNOW 125%
3200F_b-2.3E-PTI (UC3B)

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)		1045										
	TL (L/180)		1369	1913	2635	2735	3517	3644	3842	5264	7756	9698	10941
	Bearing		2.0/4.9	2.8/6.8	3.8/9.4	3.9/9.7	5.0/12.5	5.2/13.0	5.5/13.7	7.5/18.7	11.0/27.5	13.8/34.4	15.5/38.8
7	LL (L/240)		673	1473									
	TL (L/180)		888	1581	2142	2218	2791	2880	3017	3908	5027	6943	9373
	Bearing		1.5/3.7	2.7/6.6	3.6/8.9	3.7/9.2	4.7/11.6	4.8/12.0	5.0/12.5	6.5/16.2	8.4/20.8	11.5/28.7	15.5/38.8
8	LL (L/240)		457	1011									
	TL (L/180)		601	1269	1807	1868	2322	2391	2497	3157	3905	4860	8197
	Bearing		1.5/3.5	2.5/6.1	3.5/8.6	3.6/8.9	4.4/11.0	4.6/11.4	4.8/11.9	6.0/15.0	7.4/18.5	9.2/23.0	15.5/38.8
9	LL (L/240)		324	722	1442	1553							
	TL (L/180)		424	952	1535	1609	1991	2047	2134	2661	3230	3902	7282
	Bearing		1.5/3.5	2.1/5.1	3.3/8.2	3.5/8.6	4.3/10.7	4.4/11.0	4.6/11.4	5.7/14.2	6.9/17.3	8.4/20.8	15.5/38.8
10	LL (L/240)		238	533	1072	1156							
	TL (L/180)		309	700	1241	1301	1744	1791	1864	2304	2766	3289	5613
	Bearing		1.5/3.5	1.7/4.2	3.0/7.4	3.1/7.8	4.2/10.4	4.3/10.7	4.5/11.1	5.5/13.7	6.6/16.5	7.8/19.5	13.3/33.3
11	LL (L/240)		180	404	817	882	1422						
	TL (L/180)		232	528	1023	1072	1444	1501	1588	2033	2422	2853	4560
	Bearing		1.5/3.5	1.5/3.5	2.7/6.8	2.9/7.1	3.8/9.5	4.0/9.9	4.2/10.4	5.4/13.3	6.4/15.9	7.5/18.7	11.9/29.8
12	LL (L/240)		139	314	637	687	1113	1185	1297				
	TL (L/180)		177	407	835	899	1211	1258	1331	1779	2157	2524	3893
	Bearing		1.5/3.5	1.5/3.5	2.4/6.0	2.6/6.5	3.5/8.7	3.6/9.0	3.9/9.6	5.1/12.7	6.2/15.4	7.2/18.0	11.1/27.8
13	LL (L/240)		110	248	505	546	887	944	1034				
	TL (L/180)		138	320	659	713	1029	1070	1132	1512	1913	2264	3413
	Bearing		1.5/3.5	1.5/3.5	2.1/5.2	2.3/5.6	3.2/8.0	3.4/8.4	3.6/8.8	4.7/11.8	6.0/14.9	7.1/17.6	10.6/26.4
14	LL (L/240)			200	407	440	717	764	838				
	TL (L/180)			255	529	572	885	920	973	1301	1646	2026	3046
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	3.0/7.5	3.1/7.8	3.3/8.2	4.4/10.9	5.5/13.8	6.8/16.9	10.2/25.4
15	LL (L/240)			163	333	360	588	627	687	1099			
	TL (L/180)			206	430	466	767	799	846	1131	1431	1761	2754
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.8/7.0	2.9/7.2	3.1/7.7	4.1/10.2	5.2/12.9	6.4/15.8	9.9/24.7
16	LL (L/240)			135	276	298	488	520	571	915			
	TL (L/180)			168	354	383	634	676	741	991	1255	1544	2515
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.5/6.2	2.7/6.6	2.9/7.2	3.9/9.6	4.9/12.1	6.0/14.8	9.6/24.0
17	LL (L/240)			112	231	250	409	436	479	770			
	TL (L/180)			139	294	318	529	564	620	876	1109	1365	2267
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.6/6.4	3.6/9.0	4.6/11.4	5.6/14.0	9.3/23.1
18	LL (L/240)				195	211	346	369	405	653	957		
	TL (L/180)				246	267	445	475	523	779	986	1215	2018
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.4/8.5	4.3/10.7	5.3/13.2	8.7/21.8
19	LL (L/240)				166	180	296	315	346	559	820		
	TL (L/180)				208	226	377	403	444	697	883	1087	1808
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.3/8.1	4.1/10.2	5.0/12.5	8.3/20.6
20	LL (L/240)				143	155	254	271	298	482	708		
	TL (L/180)				177	192	322	344	380	621	794	979	1628
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	3.1/7.6	3.9/9.7	4.8/11.9	7.9/19.6
21	LL (L/240)				124	134	220	235	258	418	615	863	
	TL (L/180)				151	164	277	296	327	536	718	885	1473
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.8/6.9	3.7/9.2	4.6/11.3	7.5/18.7
22	LL (L/240)					117	192	205	225	365	538	755	
	TL (L/180)					141	239	256	283	466	652	804	1339
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.5/8.8	4.4/10.8	7.2/17.8
23	LL (L/240)						169	180	198	321	473	665	
	TL (L/180)						208	222	246	406	595	733	1222
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.4/8.4	4.2/10.3	6.9/17.1
24	LL (L/240)						149	159	174	283	418	588	
	TL (L/180)						181	194	215	356	533	671	1119
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.2/7.9	4.0/9.9	6.6/16.4
25	LL (L/240)						132	141	155	251	371	523	
	TL (L/180)						159	170	188	314	471	617	1029
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	3.0/7.3	3.8/9.5	6.3/15.7
26	LL (L/240)							125	138	224	331	467	
	TL (L/180)							150	166	277	417	568	948
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.7/9.1	6.1/15.1
27	LL (L/240)								123	200	296	418	
	TL (L/180)								146	246	371	525	877
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.6/8.8	5.8/14.5
28	LL (L/240)									180	266	376	
	TL (L/180)									219	331	474	813
	Bearing									1.6/4.0	2.4/5.9	3.4/8.3	5.6/14.0
29	LL (L/240)									162	240	339	
	TL (L/180)									195	296	425	755
	Bearing									1.5/3.7	2.2/5.5	3.1/7.8	5.4/13.5
30	LL (L/240)									147	218	307	
	TL (L/180)									175	266	383	703
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	5.3/13.1
31	LL (L/240)									133	198	279	645
	TL (L/180)									156	239	345	656
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	5.1/12.7
32	LL (L/240)									121	180	254	588
	TL (L/180)									141	216	312	614
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.9/12.3

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

ALLOWABLE UNIFORM LOADS (POUNDS PER LINEAL FOOT)

ROOF NON-SNOW 125%
3200F_b-2.3E-PTI (UC3B)

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)			2550	3513	3646	4690	4858	5123	7018	10342	12931	14589
	Bearing			2.8/6.8	3.8/9.4	3.9/9.7	5.0/12.5	5.2/13.0	5.5/13.7	7.5/18.7	11.0/27.5	13.8/34.4	15.5/38.8
7	LL (L/240)			1964									
	TL (L/180)			2108	2856	2957	3721	3840	4023	5210	6702	9258	12498
	Bearing			2.7/6.6	3.6/8.9	3.7/9.2	4.7/11.6	4.8/12.0	5.0/12.5	6.5/16.2	8.4/20.8	11.5/28.7	15.5/38.8
8	LL (L/240)			1348									
	TL (L/180)			1692	2409	2491	3096	3188	3329	4209	5206	6480	10929
	Bearing			2.5/6.1	3.5/8.6	3.6/8.9	4.4/11.0	4.6/11.4	4.8/11.9	6.0/15.0	7.4/18.5	9.2/23.0	15.5/38.8
9	LL (L/240)			963	1923	2071							
	TL (L/180)			1270	2047	2145	2654	2730	2845	3548	4307	5202	9710
	Bearing			2.1/5.1	3.3/8.2	3.5/8.6	4.3/10.7	4.4/11.0	4.6/11.4	5.7/14.2	6.9/17.3	8.4/20.8	15.5/38.8
10	LL (L/240)			711	1429	1541							
	TL (L/180)			933	1655	1734	2325	2389	2486	3072	3688	4386	7484
	Bearing			1.7/4.2	3.0/7.4	3.1/7.8	4.2/10.4	4.3/10.7	4.5/11.1	5.5/13.7	6.6/16.5	7.8/19.5	13.3/33.3
11	LL (L/240)			539	1089	1176	1896						
	TL (L/180)			704	1364	1430	1925	2001	2117	2711	3230	3805	6080
	Bearing			1.5/3.5	2.7/6.8	2.9/7.1	3.8/9.5	4.0/9.9	4.2/10.4	5.4/13.3	6.4/15.9	7.5/18.7	11.9/29.8
12	LL (L/240)			418	849	916	1484	1579	1729				
	TL (L/180)			543	1113	1198	1614	1678	1775	2372	2876	3365	5190
	Bearing			1.5/3.5	2.4/6.0	2.6/6.5	3.5/8.7	3.6/9.0	3.9/9.6	5.1/12.7	6.2/15.4	7.2/18.0	11.1/27.8
13	LL (L/240)			331	673	727	1182	1259	1379				
	TL (L/180)			426	879	951	1372	1426	1509	2017	2551	3019	4551
	Bearing			1.5/3.5	2.1/5.2	2.3/5.6	3.2/8.0	3.4/8.4	3.6/8.8	4.7/11.8	6.0/14.9	7.1/17.6	10.6/26.4
14	LL (L/240)			266	543	587	957	1019	1117				
	TL (L/180)			340	705	763	1180	1226	1298	1735	2195	2701	4061
	Bearing			1.5/3.5	1.8/4.5	2.0/4.9	3.0/7.5	3.1/7.8	3.3/8.2	4.4/10.9	5.5/13.8	6.8/16.9	10.2/25.4
15	LL (L/240)			217	444	480	784	836	916	1466			
	TL (L/180)			275	573	621	1023	1065	1128	1508	1908	2348	3672
	Bearing			1.5/3.5	1.6/4.0	1.7/4.3	2.8/7.0	2.9/7.2	3.1/7.7	4.1/10.2	5.2/12.9	6.4/15.8	9.9/24.7
16	LL (L/240)			179	368	397	651	693	761	1220			
	TL (L/180)			225	472	511	845	901	988	1322	1673	2059	3353
	Bearing			1.5/3.5	1.5/3.5	1.5/3.8	2.5/6.2	2.7/6.6	2.9/7.2	3.9/9.6	4.9/12.1	6.0/14.8	9.6/24.0
17	LL (L/240)			150	308	333	546	582	638	1026			
	TL (L/180)			185	392	425	705	752	827	1168	1478	1820	3023
	Bearing			1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.5	2.4/5.9	2.6/6.4	3.6/9.0	4.6/11.4	5.6/14.0	9.3/23.1
18	LL (L/240)				260	281	462	492	541	871	1276		
	TL (L/180)				328	356	593	633	697	1038	1315	1619	2691
	Bearing				1.5/3.5	1.5/3.5	2.0/4.9	2.1/5.3	2.3/5.8	3.4/8.5	4.3/10.7	5.3/13.2	8.7/21.8
19	LL (L/240)				222	240	394	420	462	745	1094		
	TL (L/180)				277	301	503	537	592	929	1177	1450	2410
	Bearing				1.5/3.5	1.5/3.5	1.8/4.5	1.9/4.7	2.1/5.2	3.3/8.1	4.1/10.2	5.0/12.5	8.3/20.6
20	LL (L/240)				191	206	339	362	397	642	944		
	TL (L/180)				235	256	430	459	506	828	1059	1305	2170
	Bearing				1.5/3.5	1.5/3.5	1.6/4.0	1.8/4.3	1.9/4.7	3.1/7.6	3.9/9.7	4.8/11.9	7.9/19.6
21	LL (L/240)				165	179	294	314	345	557	821	1151	
	TL (L/180)				201	219	369	395	435	715	958	1180	1964
	Bearing				1.5/3.5	1.5/3.5	1.5/3.7	1.6/3.9	1.8/4.3	2.8/6.9	3.7/9.2	4.6/11.3	7.5/18.7
22	LL (L/240)					156	256	273	301	487	717	1007	
	TL (L/180)					188	319	341	377	621	870	1072	1785
	Bearing					1.5/3.5	1.5/3.5	1.5/3.6	1.6/3.9	2.6/6.3	3.5/8.8	4.4/10.8	7.2/17.8
23	LL (L/240)						225	240	264	427	631	887	
	TL (L/180)						277	297	328	542	793	978	1629
	Bearing						1.5/3.5	1.5/3.5	1.5/3.6	2.4/5.8	3.4/8.4	4.2/10.3	6.9/17.1
24	LL (L/240)						198	212	233	377	557	784	
	TL (L/180)						242	259	286	475	711	895	1492
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.2/5.4	3.2/7.9	4.0/9.9	6.6/16.4
25	LL (L/240)						176	188	206	335	495	697	
	TL (L/180)						212	227	251	418	628	822	1372
	Bearing						1.5/3.5	1.5/3.5	1.5/3.5	2.0/5.0	3.0/7.3	3.8/9.5	6.3/15.7
26	LL (L/240)							167	184	298	441	622	
	TL (L/180)							199	221	370	556	757	1265
	Bearing							1.5/3.5	1.5/3.5	1.9/4.6	2.7/6.8	3.7/9.1	6.1/15.1
27	LL (L/240)								164	267	395	557	
	TL (L/180)								195	328	495	700	1169
	Bearing								1.5/3.5	1.7/4.3	2.6/6.3	3.6/8.8	5.8/14.5
28	LL (L/240)									240	355	501	
	TL (L/180)									292	441	632	1084
	Bearing									1.6/4.0	2.4/5.9	3.4/8.3	5.6/14.0
29	LL (L/240)									216	321	453	
	TL (L/180)									260	395	567	1007
	Bearing									1.5/3.7	2.2/5.5	3.1/7.8	5.4/13.5
30	LL (L/240)									196	290	410	
	TL (L/180)									233	355	510	938
	Bearing									1.5/3.5	2.1/5.2	2.9/7.3	5.3/13.1
31	LL (L/240)									178	263	372	859
	TL (L/180)									209	319	460	875
	Bearing									1.5/3.5	2.0/4.9	2.8/6.8	5.1/12.7
32	LL (L/240)									162	240	339	784
	TL (L/180)									187	288	416	818
	Bearing									1.5/3.5	1.9/4.6	2.6/6.4	4.9/12.3

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

LVL SPAN TABLES 2.3E UC3B

EVOLUTION®

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 wet-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 450 psi for 2.3E 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 450 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.