Roseburg

1-Ply, 1.75" 1.6E true RigidLam LVL @ 100% Floor (PLF) L/360 LL L/240 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
6	LL	127	244	528	-	-	-	-	-					
	TL	188	364	588	793	820	1022	1099	1385					
	BRG	1.5 / 3	1.5 / 3	1.8 / 4.4	2.4 / 5.9	2.5 / 6.1	3.1 / 7.7	3.3 / 8.2	4.1 / 10.4					
8	LL	55	107	237	468	503	-	-	-					
	TL	80	158	352	557	575	706	755	931					
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	2.3 / 5.8	2.8 / 7.1	3 / 7.6	3.7 / 9.3					
10	LL		56	125	251	270	434	503	-					
	TL		81	184	372	401	539	574	701					
	BRG		1.5 / 3	1.5 / 3	1.9 / 4.7	2 / 5	2.7 / 6.8	2.9 / 7.2	3.5 / 8.8					
12	LL			73	149	161	260	303	479					
	TL			107	219	237	383	424	561					
	BRG			1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.6 / 6.4	3.4 / 8.5					
14	LL			47	95	103	168	196	312					
	TL			67	139	150	247	289	423					
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	2 / 5.1	3 / 7.5					
16	LL				64	70	114	133	214					
	TL				93	100	166	195	315					
	BRG				1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2.6 / 6.4					
18	LL				46	49	81	95	153					
	TL				64	70	117	137	223					
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	2 / 5.1					
20	LL					36	60	70	113					
	TL					50	84	99	163					
	BRG					1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2					
22	LL						45	53	85					
	TL						63	74	122					
	BRG						1.5 / 3	1.5 / 3	1.5 / 3.5					
24	LL							41	66					
	TL							56	93					
	BRG							1.5 / 3	1.5 / 3					
26	LL								52					
	TL								72					
	BRG								1.5 / 3					
28	LL								42					
	TL								57					
	BRG								1.5 / 3					
30	LL													
	TL													
	BRG													
32	LL													
	TL													
	BRG													
34	LL													
	TL													
	BRG													
36	LL													
	TL													
	BRG													
38	LL													
	TL													
	BRG													
40	LL													
	TL													
	BRG													
42	LL													
	TL													
	BRG													
44	LL													
	TL													
	BRG													
46	LL													
	TL													
	BRG													
48	LL													
	TL													
	BRG													
50	LL													
	TL													
	BRG													
52	LL													
	TL													
	BRG													
54	LL													
	TL													
	BRG													

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

2-Ply, 1.75" 1.6E true RigidLam LVL @ 100% Floor (PLF) L/360 LL L/240 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
6	LL	254	489	1055	-	-	-	-	-	-	-	-	-	-
	TL	377	728	1177	1586	1640	2043	2198	2770	3385	4091	4911	5873	7019
	BRG	1.5 / 3	1.5 / 3	1.8 / 4.4	2.4 / 5.9	2.5 / 6.1	3.1 / 7.7	3.3 / 8.2	4.1 / 10.4	5.1 / 12.7	6.1 / 15.3	7.3 / 18.4	8.8 / 22	10.5 / 26.2
8	LL	110	214	473	935	1006	-	-	-	-	-	-	-	-
	TL	161	316	703	1115	1150	1412	1510	1863	2226	2624	3063	3547	4086
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	2.3 / 5.8	2.8 / 7.1	3 / 7.6	3.7 / 9.3	4.5 / 11.1	5.2 / 13.1	6.1 / 15.3	7.1 / 17.7	8.2 / 20.4
10	LL	57	111	249	501	541	867	1006	-	-	-	-	-	-
	TL	81	162	368	744	803	1077	1148	1402	1657	1930	2223	2538	2878
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2 / 5	2.7 / 6.8	2.9 / 7.2	3.5 / 8.8	4.2 / 10.4	4.8 / 12.1	5.6 / 13.9	6.4 / 15.9	7.2 / 18
12	LL		65	147	298	322	521	607	959	-	-	-	-	-
	TL		93	214	439	474	765	848	1122	1318	1524	1743	1974	2219
	BRG		1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.6 / 6.4	3.4 / 8.5	4 / 9.9	4.6 / 11.5	5.2 / 13.1	5.9 / 14.9	6.7 / 16.7
14	LL		41	93	191	206	336	392	625	906	1249	-	-	-
	TL		57	134	278	301	494	577	846	1088	1259	1432	1614	1804
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	2 / 5.1	3 / 7.5	3.8 / 9.6	4.4 / 11.1	5 / 12.6	5.7 / 14.2	6.3 / 15.9
16	LL			63	129	139	228	267	428	625	867	1157	-	-
	TL			88	185	201	333	390	630	830	1037	1215	1364	1519
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2.6 / 6.4	3.4 / 8.4	4.2 / 10.5	4.9 / 12.2	5.5 / 13.7	6.1 / 15.3
18	LL			44	91	99	162	190	306	448	625	838	1089	-
	TL			60	129	140	233	274	446	653	816	996	1180	1311
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	2 / 5.1	3 / 7.5	3.7 / 9.3	4.5 / 11.3	5.4 / 13.4	6 / 14.9
20	LL				67	72	119	139	225	331	464	625	815	1036
	TL				92	100	169	199	326	483	658	803	962	1134
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.5 / 6.2	3.3 / 8.4	4.1 / 10.2	4.9 / 12.2	5.7 / 14.4
22	LL				50	55	90	105	171	252	353	477	625	796
	TL				68	74	125	148	244	364	514	661	792	934
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.1 / 5.2	2.9 / 7.2	3.7 / 9.3	4.4 / 11.1	5.2 / 13
24	LL				39	42	70	82	132	196	275	372	489	625
	TL				50	55	95	112	186	279	397	541	662	781
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.4	2.5 / 6.2	3.3 / 8.3	4.1 / 10.2	4.8 / 12
26	LL						55	64	105	155	218	296	389	498
	TL						73	86	145	218	312	427	562	663
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.3	2.9 / 7.2	3.8 / 9.4	4.4 / 11
28	LL						44	52	84	125	176	239	315	404
	TL						56	67	114	173	248	341	453	569
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.8 / 4.6	2.5 / 6.2	3.3 / 8.2	4.1 / 10.3
30	LL							42	69	102	144	196	258	331
	TL							53	91	139	200	276	368	476
	BRG							1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4	2.2 / 5.5	2.9 / 7.2	3.7 / 9.3
32	LL								57	84	119	162	214	275
	TL								73	112	163	226	302	392
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.5	1.9 / 4.8	2.6 / 6.4	3.3 / 8.2
34	LL								47	70	100	136	179	231
	TL								59	92	134	186	250	325
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.3	2.3 / 5.7	2.9 / 7.3
36	LL									59	84	115	152	196
	TL									75	111	155	208	272
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5.1	2.6 / 6.6
38	LL									51	72	98	130	167
	TL									62	92	129	175	230
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
40	LL									44	62	84	111	144
	TL									51	77	109	148	195
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.1 / 5.4
42	LL										53	73	97	125
	TL										64	92	126	166
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 4.9
44	LL										47	64	84	109
	TL										54	78	107	142
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.5
46	LL											56	74	95
	TL											66	91	122
	BRG											1.5 / 3	1.5 / 3.2	1.6 / 4.1
48	LL											49	65	84
	TL											56	78	105
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.8
50	LL												58	75
	TL												67	91
	BRG												1.5 / 3	1.5 / 3.5
52	LL												51	66
	TL												58	79
	BRG												1.5 / 3	1.5 / 3.2
54	LL													59
	TL													68
	BRG													1.5 / 3

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

3-Ply, 1.75" 1.6E true RigidLam LVL @ 100% Floor (PLF) L/360 LL L/240 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
10	LL	85	167	374	752	811	1301	1510	-	-	-	-	-	-
	TL	122	243	552	1116	1204	1616	1723	2102	2485	2894	3334	3807	4317
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2 / 5	2.7 / 6.8	2.9 / 7.2	3.5 / 8.8	4.2 / 10.4	4.8 / 12.1	5.6 / 13.9	6.4 / 15.9	7.2 / 18
12	LL	50	98	220	447	482	781	910	1438	-	-	-	-	-
	TL	69	139	321	658	711	1148	1271	1684	1977	2286	2614	2961	3329
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.6 / 6.4	3.4 / 8.5	4 / 9.9	4.6 / 11.5	5.2 / 13.1	5.9 / 14.9	6.7 / 16.7
14	LL		62	140	286	309	503	588	937	1359	1874	-	-	-
	TL		86	201	417	451	740	866	1269	1633	1888	2148	2420	2706
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	2 / 5.1	3 / 7.5	3.8 / 9.6	4.4 / 11.1	5 / 12.6	5.7 / 14.2	6.3 / 15.9
16	LL		42	94	193	209	342	400	642	937	1301	1736	-	-
	TL		55	132	278	301	499	585	945	1245	1555	1822	2045	2279
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2.6 / 6.4	3.4 / 8.4	4.2 / 10.5	4.9 / 12.2	5.5 / 13.7	6.1 / 15.3
18	LL			67	137	148	243	285	458	672	937	1257	1633	-
	TL			90	193	210	350	411	669	979	1224	1494	1770	1966
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	2 / 5.1	3 / 7.5	3.7 / 9.3	4.5 / 11.3	5.4 / 13.4	6 / 14.9
20	LL			49	100	109	179	209	338	497	696	937	1223	1553
	TL			64	138	150	253	298	489	725	987	1205	1443	1702
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.5 / 6.2	3.3 / 8.4	4.1 / 10.2	4.9 / 12.2	5.7 / 14.4
22	LL				76	82	135	158	256	378	530	716	937	1195
	TL				101	110	188	222	366	545	772	991	1188	1401
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.1 / 5.2	2.9 / 7.2	3.7 / 9.3	4.4 / 11.1	5.2 / 13
24	LL				58	63	104	122	199	293	413	559	733	937
	TL				76	82	142	168	280	419	595	812	994	1172
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.4	2.5 / 6.2	3.3 / 8.3	4.1 / 10.2	4.8 / 12
26	LL				46	50	82	97	157	232	327	444	584	748
	TL				57	62	109	129	217	327	467	640	842	994
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.3	2.9 / 7.2	3.8 / 9.4	4.4 / 11
28	LL						66	78	126	187	264	358	472	606
	TL						84	101	171	259	372	511	679	853
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.8 / 4.6	2.5 / 6.2	3.3 / 8.2	4.1 / 10.3
30	LL						54	63	103	153	216	293	387	497
	TL						66	79	136	208	300	414	551	714
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4	2.2 / 5.5	2.9 / 7.2	3.7 / 9.3
32	LL						44	52	85	126	179	243	321	413
	TL						52	63	109	168	244	338	452	588
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.9 / 4.8	2.6 / 6.4	3.3 / 8.2
34	LL								71	106	149	204	269	346
	TL								88	137	200	279	375	488
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.3	2.3 / 5.7	2.9 / 7.3
36	LL								60	89	126	172	228	293
	TL								72	113	166	232	313	409
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5.1	2.6 / 6.6
38	LL								51	76	108	147	194	251
	TL								58	93	138	194	263	344
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
40	LL									65	93	126	167	216
	TL									77	115	163	222	292
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.1 / 5.4
42	LL									56	80	109	145	187
	TL									64	96	138	188	249
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 4.9
44	LL									49	70	95	126	163
	TL									53	81	117	161	213
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.5
46	LL										61	84	111	143
	TL										68	99	137	183
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 4.1
48	LL										54	74	98	126
	TL										57	84	118	158
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8
50	LL											65	87	112
	TL											72	101	136
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.5
52	LL											58	77	100
	TL											61	87	118
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.2
54	LL											52	69	89
	TL											52	74	102
	BRG											1.5 / 3	1.5 / 3	1.5 / 3
56	LL												62	80
	TL												64	89
	BRG												1.5 / 3	1.5 / 3
58	LL												56	72
	TL												55	77
	BRG												1.5 / 3	1.5 / 3

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

4-Ply, 1.75" 1.6E true RigidLam LVL @ 100% Floor (PLF) L/360 LL L/240 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
10	LL	113	223	499	1003	1081	1735	2013	-	-	-	-	-	-
	TL	163	325	736	1488	1605	2154	2297	2803	3313	3859	4445	5075	5756
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2 / 5	2.7 / 6.8	2.9 / 7.2	3.5 / 8.8	4.2 / 10.4	4.8 / 12.1	5.6 / 13.9	6.4 / 15.9	7.2 / 18
12	LL	66	130	294	596	643	1042	1213	1917	-	-	-	-	-
	TL	91	186	428	877	948	1531	1695	2245	2636	3049	3485	3947	4438
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.6 / 6.4	3.4 / 8.5	4 / 9.9	4.6 / 11.5	5.2 / 13.1	5.9 / 14.9	6.7 / 16.7
14	LL	42	82	187	381	412	671	784	1249	1812	2498	-	-	-
	TL	55	114	267	555	601	987	1155	1692	2177	2517	2864	3227	3608
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	2 / 5.1	3 / 7.5	3.8 / 9.6	4.4 / 11.1	5 / 12.6	5.7 / 14.2	6.3 / 15.9
16	LL		55	126	258	279	457	534	856	1249	1735	2315	-	-
	TL		74	176	371	402	665	780	1260	1660	2074	2429	2727	3038
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.6 / 4	2.6 / 6.4	3.4 / 8.4	4.2 / 10.5	4.9 / 12.2	5.5 / 13.7	6.1 / 15.3
18	LL			89	183	197	324	379	611	896	1249	1676	2178	-
	TL			121	258	279	466	548	892	1306	1632	1992	2360	2622
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	2 / 5.1	3 / 7.5	3.7 / 9.3	4.5 / 11.3	5.4 / 13.4	6 / 14.9
20	LL			65	134	145	238	279	451	663	928	1249	1630	2071
	TL			85	184	200	337	398	652	966	1316	1607	1924	2269
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.5 / 6.2	3.3 / 8.4	4.1 / 10.2	4.9 / 12.2	5.7 / 14.4
22	LL			49	101	109	180	211	342	503	707	955	1249	1593
	TL			61	135	147	250	296	488	727	1029	1322	1584	1868
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.1 / 5.2	2.9 / 7.2	3.7 / 9.3	4.4 / 11.1	5.2 / 13
24	LL				78	84	139	163	265	391	550	745	977	1249
	TL				101	110	189	224	373	559	794	1082	1325	1563
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.4	2.5 / 6.2	3.3 / 8.3	4.1 / 10.2	4.8 / 12
26	LL				61	67	110	129	209	310	436	592	778	997
	TL				76	83	145	173	290	437	623	853	1123	1325
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.3	2.9 / 7.2	3.8 / 9.4	4.4 / 11
28	LL				49	53	88	103	168	249	352	478	629	807
	TL				58	63	113	134	228	346	496	682	905	1137
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.8 / 4.6	2.5 / 6.2	3.3 / 8.2	4.1 / 10.3
30	LL						72	84	137	204	288	391	516	663
	TL						88	106	182	277	400	552	735	952
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 4	2.2 / 5.5	2.9 / 7.2	3.7 / 9.3
32	LL						59	70	113	168	238	324	428	550
	TL						69	84	146	225	326	451	603	783
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.9 / 4.8	2.6 / 6.4	3.3 / 8.2
34	LL						50	58	95	141	199	271	359	462
	TL						55	66	118	183	267	372	499	651
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.3	2.3 / 5.7	2.9 / 7.3
36	LL							49	80	119	168	230	303	391
	TL							53	96	150	221	309	417	545
	BRG							1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5.1	2.6 / 6.6
38	LL								68	101	144	196	259	334
	TL								78	124	184	259	350	459
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
40	LL								59	87	123	168	223	288
	TL								63	103	154	218	296	389
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.1 / 5.4
42	LL								51	75	107	146	193	249
	TL								51	85	129	184	251	332
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 4.9
44	LL									66	93	127	168	217
	TL									70	108	156	214	284
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.5
46	LL									57	82	111	148	191
	TL									58	91	132	183	244
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.6 / 4.1
48	LL										72	98	130	168
	TL										76	112	157	211
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8
50	LL										64	87	115	149
	TL										64	96	135	182
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5
52	LL										57	77	103	133
	TL										53	81	116	157
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2
54	LL											69	92	119
	TL											69	99	136
	BRG											1.5 / 3	1.5 / 3	1.5 / 3
56	LL											62	82	107
	TL											58	85	118
	BRG											1.5 / 3	1.5 / 3	1.5 / 3
58	LL												74	96
	TL												73	102
	BRG												1.5 / 3	1.5 / 3

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

1-Ply, 1.75" 1.6E true RigidLam LVL @ 115% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
6	LL	190	367	-	-	-	-	-	-					
	TL	252	464	677	912	944	1176	1265	1593					
	BRG	1.5 / 3	1.5 / 3.5	2 / 5.1	2.7 / 6.8	2.8 / 7.1	3.5 / 8.8	3.8 / 9.5	4.8 / 11.9					
8	LL	82	160	355	-	-	-	-	-					
	TL	108	211	437	642	662	812	869	1072					
	BRG	1.5 / 3	1.5 / 3	1.7 / 4.4	2.6 / 6.4	2.6 / 6.6	3.2 / 8.1	3.5 / 8.7	4.3 / 10.7					
10	LL	43	84	187	376	406	-	-	-					
	TL	55	109	246	441	463	620	661	807					
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.2 / 5.5	2.3 / 5.8	3.1 / 7.8	3.3 / 8.3	4 / 10.1					
12	LL		49	110	223	241	391	455	-					
	TL		63	144	294	317	441	488	646					
	BRG		1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.7 / 6.6	2.9 / 7.4	3.9 / 9.7					
14	LL			70	143	154	252	294	469					
	TL			90	186	202	323	357	487					
	BRG			1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.7	2.5 / 6.3	3.4 / 8.6					
16	LL			47	97	105	171	200	321					
	TL			60	125	135	223	262	372					
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3 / 7.5					
18	LL				68	74	122	142	229					
	TL				87	95	157	185	292					
	BRG				1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.7					
20	LL				50	54	89	105	169					
	TL				63	68	114	134	219					
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6					
22	LL					41	67	79	128					
	TL					50	85	100	165					
	BRG					1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7					
24	LL						52	61	99					
	TL						65	76	126					
	BRG						1.5 / 3	1.5 / 3	1.6 / 3.9					
26	LL							48	79					
	TL							59	99					
	BRG							1.5 / 3	1.5 / 3.4					
28	LL								63					
	TL								78					
	BRG								1.5 / 3					
30	LL								52					
	TL								63					
	BRG								1.5 / 3					
32	LL								43					
	TL								51					
	BRG								1.5 / 3					
34	LL													
	TL													
	BRG													
36	LL													
	TL													
	BRG													
38	LL													
	TL													
	BRG													
40	LL													
	TL													
	BRG													
42	LL													
	TL													
	BRG													
44	LL													
	TL													
	BRG													
46	LL													
	TL													
	BRG													
48	LL													
	TL													
	BRG													
50	LL													
	TL													
	BRG													
52	LL													
	TL													
	BRG													
54	LL													
	TL													
	BRG													

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

2-Ply, 1.75" 1.6E true RigidLam LVL @ 115% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
6	LL	380	733	-	-	-	-	-	-	-	-	-	-	-
	TL	503	927	1354	1825	1887	2351	2529	3187	3894	4707	5650	6757	8075
	BRG	1.5 / 3	1.5 / 3.5	2 / 5.1	2.7 / 6.8	2.8 / 7.1	3.5 / 8.8	3.8 / 9.5	4.8 / 11.9	5.8 / 14.6	7 / 17.6	8.4 / 21.1	10.1 / 25.3	12.1 / 30.2
8	LL	164	321	710	-	-	-	-	-	-	-	-	-	-
	TL	215	423	874	1283	1324	1625	1738	2144	2562	3020	3525	4082	4702
	BRG	1.5 / 3	1.5 / 3	1.7 / 4.4	2.6 / 6.4	2.6 / 6.6	3.2 / 8.1	3.5 / 8.7	4.3 / 10.7	5.1 / 12.8	6 / 15.1	7 / 17.6	8.2 / 20.4	9.4 / 23.5
10	LL	85	167	374	752	811	-	-	-	-	-	-	-	-
	TL	110	218	493	881	927	1240	1322	1614	1907	2221	2559	2921	3313
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.2 / 5.5	2.3 / 5.8	3.1 / 7.8	3.3 / 8.3	4 / 10.1	4.8 / 11.9	5.6 / 13.9	6.4 / 16	7.3 / 18.3	8.3 / 20.7
12	LL	50	98	220	447	482	781	910	-	-	-	-	-	-
	TL	62	125	287	587	635	882	976	1293	1518	1755	2007	2273	2555
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.7 / 6.6	2.9 / 7.4	3.9 / 9.7	4.6 / 11.4	5.3 / 13.2	6 / 15.1	6.8 / 17.1	7.7 / 19.2
14	LL		62	140	286	309	503	588	937	-	-	-	-	-
	TL		78	180	373	403	645	715	975	1254	1450	1649	1858	2078
	BRG		1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.7	2.5 / 6.3	3.4 / 8.6	4.4 / 11	5.1 / 12.7	5.8 / 14.5	6.5 / 16.3	7.3 / 18.3
16	LL		42	94	193	209	342	400	642	937	-	-	-	-
	TL		51	120	250	271	447	524	743	957	1195	1399	1571	1750
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3 / 7.5	3.9 / 9.6	4.8 / 12	5.6 / 14.1	6.3 / 15.8	7 / 17.6
18	LL			67	137	148	243	285	458	672	937	-	-	-
	TL			82	174	189	314	369	585	753	941	1148	1360	1511
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.7	3.4 / 8.6	4.3 / 10.7	5.2 / 13	6.2 / 15.4	6.8 / 17.1
20	LL			49	100	109	179	209	338	497	696	-	-	-
	TL			59	126	136	228	269	438	607	759	927	1109	1308
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	3.1 / 7.7	3.8 / 9.6	4.7 / 11.7	5.6 / 14	6.6 / 16.5
22	LL				76	82	135	158	256	378	530	716	-	-
	TL				93	101	170	201	329	489	625	763	914	1077
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 6.9	3.5 / 8.7	4.3 / 10.7	5.1 / 12.7	6 / 15
24	LL				58	63	104	122	199	293	413	559	733	-
	TL				70	76	129	153	253	377	522	638	765	902
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2.3 / 5.8	3.2 / 8	3.9 / 9.8	4.7 / 11.7	5.5 / 13.8
26	LL				46	50	82	97	157	232	327	444	584	748
	TL				53	58	100	118	197	296	421	541	649	765
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 5	2.8 / 7	3.6 / 9	4.3 / 10.8	5.1 / 12.7
28	LL						66	78	126	187	264	358	472	606
	TL						78	93	156	235	336	460	557	657
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.3	2.4 / 6.1	3.3 / 8.3	4 / 10	4.7 / 11.8
30	LL						54	63	103	153	216	293	387	497
	TL						62	74	125	190	272	374	482	570
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.4	2.9 / 7.3	3.7 / 9.3	4.4 / 11
32	LL							52	85	126	179	243	321	413
	TL							59	101	154	222	307	408	498
	BRG							1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.7	2.6 / 6.4	3.4 / 8.5	4.1 / 10.3
34	LL								71	106	149	204	269	346
	TL								83	127	183	254	339	439
	BRG								1.5 / 3	1.5 / 3	1.7 / 4.2	2.3 / 5.7	3 / 7.6	3.9 / 9.7
36	LL								60	89	126	172	228	293
	TL								68	105	153	212	284	370
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.1	2.7 / 6.8	3.5 / 8.7
38	LL								51	76	108	147	194	251
	TL								56	87	128	178	240	313
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.6	2.4 / 6.1	3.2 / 7.9
40	LL									65	93	126	167	216
	TL									73	108	151	204	267
	BRG									1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.2 / 5.5	2.9 / 7.1
42	LL									56	80	109	145	187
	TL									61	91	128	174	228
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5	2.6 / 6.5
44	LL									49	70	95	126	163
	TL									52	77	110	149	196
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
46	LL										61	84	111	143
	TL										66	94	128	170
	BRG										1.5 / 3	1.5 / 3.2	1.7 / 4.2	2.2 / 5.5
48	LL										54	74	98	126
	TL										56	81	111	147
	BRG										1.5 / 3	1.5 / 3	1.6 / 3.9	2 / 5
50	LL											65	87	112
	TL											70	96	128
	BRG											1.5 / 3	1.5 / 3.6	1.9 / 4.6
52	LL											58	77	100
	TL											60	83	112
	BRG											1.5 / 3	1.5 / 3.3	1.7 / 4.3
54	LL											52	69	89
	TL											52	73	98
	BRG											1.5 / 3	1.5 / 3.1	1.6 / 4

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

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This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

3-Ply, 1.75" 1.6E true RigidLam LVL @ 115% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
10	LL	128	251	561	1128	1217	-	-	-	-	-	-	-	-
	TL	164	327	739	1322	1390	1860	1983	2420	2861	3332	3838	4382	4969
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.2 / 5.5	2.3 / 5.8	3.1 / 7.8	3.3 / 8.3	4 / 10.1	4.8 / 11.9	5.6 / 13.9	6.4 / 16	7.3 / 18.3	8.3 / 20.7
12	LL	74	146	330	670	723	1172	1365	-	-	-	-	-	-
	TL	93	188	431	881	952	1323	1464	1939	2277	2633	3010	3409	3833
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.7 / 6.6	2.9 / 7.4	3.9 / 9.7	4.6 / 11.4	5.3 / 13.2	6 / 15.1	6.8 / 17.1	7.7 / 19.2
14	LL	47	93	210	429	463	755	882	1406	-	-	-	-	-
	TL	57	117	271	559	605	968	1072	1462	1881	2175	2474	2788	3117
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.7	2.5 / 6.3	3.4 / 8.6	4.4 / 11	5.1 / 12.7	5.8 / 14.5	6.5 / 16.3	7.3 / 18.3
16	LL		62	142	290	314	514	601	963	1406	-	-	-	-
	TL		76	179	375	406	670	785	1115	1435	1792	2099	2357	2625
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3 / 7.5	3.9 / 9.6	4.8 / 12	5.6 / 14.1	6.3 / 15.8	7 / 17.6
18	LL		44	100	205	222	365	427	688	1008	1406	-	-	-
	TL		51	124	262	284	471	554	877	1129	1411	1722	2040	2266
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.7	3.4 / 8.6	4.3 / 10.7	5.2 / 13	6.2 / 15.4	6.8 / 17.1
20	LL			73	150	163	268	314	507	746	1044	-	-	-
	TL			88	188	205	342	403	658	911	1139	1390	1664	1962
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	3.1 / 7.7	3.8 / 9.6	4.7 / 11.7	5.6 / 14	6.6 / 16.5
22	LL			55	113	123	202	237	384	566	795	1074	-	-
	TL			64	139	151	255	301	494	734	937	1144	1370	1616
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 6.9	3.5 / 8.7	4.3 / 10.7	5.1 / 12.7	6 / 15
24	LL				88	95	157	184	298	440	619	838	1100	-
	TL				105	114	194	229	379	566	783	957	1147	1353
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2.3 / 5.8	3.2 / 8	3.9 / 9.8	4.7 / 11.7	5.5 / 13.8
26	LL				69	75	124	145	236	348	491	666	876	1122
	TL				80	87	150	178	296	444	631	812	973	1148
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 5	2.8 / 7	3.6 / 9	4.3 / 10.8	5.1 / 12.7
28	LL				55	60	99	116	189	280	396	538	708	908
	TL				62	68	117	140	234	353	504	691	835	985
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.3	2.4 / 6.1	3.3 / 8.3	4 / 10	4.7 / 11.8
30	LL					49	81	95	155	229	324	440	580	746
	TL					53	93	111	188	284	408	560	724	854
	BRG					1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.4	2.9 / 7.3	3.7 / 9.3	4.4 / 11
32	LL						67	78	128	189	268	365	481	619
	TL						74	89	152	232	333	460	613	747
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.7	2.6 / 6.4	3.4 / 8.5	4.1 / 10.3
34	LL						56	65	107	158	224	305	403	520
	TL						60	72	124	190	275	381	509	658
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.3 / 5.7	3 / 7.6	3.9 / 9.7
36	LL							55	90	134	189	258	341	440
	TL							58	102	157	229	318	426	555
	BRG							1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.1	2.7 / 6.8	3.5 / 8.7
38	LL								77	114	161	220	291	376
	TL								84	131	192	267	360	470
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.6	2.4 / 6.1	3.2 / 7.9
40	LL								66	98	139	189	251	324
	TL								69	110	161	226	305	400
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.2 / 5.5	2.9 / 7.1
42	LL								57	85	120	164	217	280
	TL								58	92	137	192	261	342
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5	2.6 / 6.5
44	LL									74	105	143	189	245
	TL									77	116	164	224	295
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
46	LL									65	92	125	166	215
	TL									65	99	141	193	255
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.2	2.2 / 5.5
48	LL									57	81	110	146	189
	TL									55	84	121	166	221
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2 / 5
50	LL										72	98	130	168
	TL										72	104	144	192
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.6
52	LL										64	87	116	150
	TL										61	90	125	168
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 4.3
54	LL										57	78	103	134
	TL										52	78	109	147
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 4
56	LL											70	93	120
	TL											67	95	129
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.7
58	LL											63	84	108
	TL											58	83	113
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.5

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

4-Ply, 1.75" 1.6E true RigidLam LVL @ 115% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
10	LL	170	334	748	1504	1622	-	-	-	-	-	-	-	-
	TL	219	436	985	1763	1853	2481	2644	3227	3814	4443	5117	5843	6625
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.2 / 5.5	2.3 / 5.8	3.1 / 7.8	3.3 / 8.3	4 / 10.1	4.8 / 11.9	5.6 / 13.9	6.4 / 16	7.3 / 18.3	8.3 / 20.7
12	LL	99	195	440	893	965	1563	1820	-	-	-	-	-	-
	TL	124	251	574	1175	1270	1763	1953	2585	3035	3511	4013	4545	5110
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.7 / 6.6	2.9 / 7.4	3.9 / 9.7	4.6 / 11.4	5.3 / 13.2	6 / 15.1	6.8 / 17.1	7.7 / 19.2
14	LL	63	124	280	572	618	1007	1176	1874	-	-	-	-	-
	TL	76	155	361	746	807	1290	1429	1950	2508	2900	3299	3717	4156
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.7	2.5 / 6.3	3.4 / 8.6	4.4 / 11	5.1 / 12.7	5.8 / 14.5	6.5 / 16.3	7.3 / 18.3
16	LL		83	189	387	418	685	801	1285	1874	-	-	-	-
	TL		101	239	500	541	893	1047	1487	1913	2390	2799	3142	3500
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3 / 7.5	3.9 / 9.6	4.8 / 12	5.6 / 14.1	6.3 / 15.8	7 / 17.6
18	LL		59	133	274	296	486	569	917	1343	1874	-	-	-
	TL		68	165	349	378	628	738	1170	1506	1882	2296	2720	3021
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.7	3.4 / 8.6	4.3 / 10.7	5.2 / 13	6.2 / 15.4	6.8 / 17.1
20	LL			97	201	217	357	418	676	994	1392	-	-	-
	TL			117	251	273	456	537	877	1215	1518	1853	2219	2615
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	3.1 / 7.7	3.8 / 9.6	4.7 / 11.7	5.6 / 14	6.6 / 16.5
22	LL			73	151	164	270	316	512	755	1060	1432	-	-
	TL			85	186	202	340	401	659	979	1249	1525	1827	2154
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 6.9	3.5 / 8.7	4.3 / 10.7	5.1 / 12.7	6 / 15
24	LL			57	117	127	209	245	397	587	825	1117	1466	-
	TL			63	140	152	259	306	505	754	1045	1276	1529	1803
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2.3 / 5.8	3.2 / 8	3.9 / 9.8	4.7 / 11.7	5.5 / 13.8
26	LL				92	100	165	193	314	465	655	888	1167	1495
	TL				107	116	200	237	394	591	841	1082	1297	1530
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 5	2.8 / 7	3.6 / 9	4.3 / 10.8	5.1 / 12.7
28	LL				74	80	132	155	253	374	528	717	944	1211
	TL				82	90	157	186	312	471	672	921	1113	1314
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.3	2.4 / 6.1	3.3 / 8.3	4 / 10	4.7 / 11.8
30	LL				60	65	108	127	206	305	431	587	774	994
	TL				64	70	124	148	250	379	544	747	965	1139
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.4	2.9 / 7.3	3.7 / 9.3	4.4 / 11
32	LL				50	54	89	104	170	253	357	486	642	825
	TL				50	55	99	118	202	309	445	613	817	996
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.7	2.6 / 6.4	3.4 / 8.5	4.1 / 10.3
34	LL						74	87	142	211	299	407	538	693
	TL						79	96	165	254	367	508	679	878
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.3 / 5.7	3 / 7.6	3.9 / 9.7
36	LL						63	74	120	178	253	344	455	587
	TL						64	77	136	210	305	424	568	740
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.1	2.7 / 6.8	3.5 / 8.7
38	LL						53	63	102	152	215	294	389	501
	TL						51	63	112	175	256	357	480	626
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.6	2.4 / 6.1	3.2 / 7.9
40	LL							54	88	131	185	253	334	431
	TL							51	93	146	215	302	407	533
	BRG							1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.2 / 5.5	2.9 / 7.1
42	LL								76	113	160	219	290	374
	TL								77	123	182	257	348	457
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5	2.6 / 6.5
44	LL								66	98	140	191	253	326
	TL								64	103	155	219	298	393
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
46	LL								58	86	122	167	221	286
	TL								53	87	132	188	257	340
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.2	2.2 / 5.5
48	LL									76	108	147	195	253
	TL									73	112	161	222	295
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2 / 5
50	LL									67	95	131	173	224
	TL									62	96	139	192	256
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.6
52	LL									60	85	116	154	199
	TL									52	82	120	167	224
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 4.3
54	LL										76	104	138	178
	TL										70	103	145	196
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 4
56	LL										68	93	124	160
	TL										59	89	126	172
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.7
58	LL										61	84	111	144
	TL										50	77	110	150
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

1-Ply, 1.75" 1.6E true RigidLam LVL @ 125% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
6	LL	190	367	-	-	-	-	-	-					
	TL	252	486	736	992	1026	1278	1375	1733					
	BRG	1.5 / 3	1.5 / 3.6	2.2 / 5.5	3 / 7.4	3.1 / 7.7	3.8 / 9.6	4.1 / 10.3	5.2 / 13					
8	LL	82	160	355	-	-	-	-	-					
	TL	108	211	470	698	720	884	945	1166					
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 7	2.9 / 7.2	3.5 / 8.8	3.8 / 9.4	4.7 / 11.6					
10	LL	43	84	187	376	406	650	-	-					
	TL	55	109	246	479	504	674	719	877					
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.4 / 6	2.5 / 6.3	3.4 / 8.4	3.6 / 9	4.4 / 11					
12	LL		49	110	223	241	391	455	-					
	TL		63	144	294	317	480	531	703					
	BRG		1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.9 / 7.2	3.2 / 8	4.2 / 10.6					
14	LL			70	143	154	252	294	469					
	TL			90	186	202	331	387	530					
	BRG			1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.7 / 6.8	3.7 / 9.3					
16	LL			47	97	105	171	200	321					
	TL			60	125	135	223	262	405					
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3.3 / 8.2					
18	LL				68	74	122	142	229					
	TL				87	95	157	185	299					
	BRG				1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.8					
20	LL				50	54	89	105	169					
	TL				63	68	114	134	219					
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6					
22	LL					41	67	79	128					
	TL					50	85	100	165					
	BRG					1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7					
24	LL						52	61	99					
	TL						65	76	126					
	BRG						1.5 / 3	1.5 / 3	1.6 / 3.9					
26	LL							48	79					
	TL							59	99					
	BRG							1.5 / 3	1.5 / 3.4					
28	LL								63					
	TL								78					
	BRG								1.5 / 3					
30	LL								52					
	TL								63					
	BRG								1.5 / 3					
32	LL								43					
	TL								51					
	BRG								1.5 / 3					
34	LL													
	TL													
	BRG													
36	LL													
	TL													
	BRG													
38	LL													
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54	LL													
	TL													
	BRG													

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

See Roseburg EWP Design Guide for information regarding the connection of multiple-ply members and installation guidelines.

Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

2-Ply, 1.75" 1.6E true RigidLam LVL @ 125% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
6	LL	380	733	-	-	-	-	-	-	-	-	-	-	-
	TL	503	973	1472	1984	2052	2557	2750	3465	4234	5118	6143	7346	8779
	BRG	1.5 / 3	1.5 / 3.6	2.2 / 5.5	3 / 7.4	3.1 / 7.7	3.8 / 9.6	4.1 / 10.3	5.2 / 13	6.3 / 15.8	7.7 / 19.1	9.2 / 23	11 / 27.4	13.1 / 32.8
8	LL	164	321	710	-	-	-	-	-	-	-	-	-	-
	TL	215	423	940	1395	1440	1767	1890	2331	2786	3284	3833	4439	5112
	BRG	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 7	2.9 / 7.2	3.5 / 8.8	3.8 / 9.4	4.7 / 11.6	5.6 / 13.9	6.6 / 16.4	7.7 / 19.1	8.9 / 22.2	10.2 / 25.5
10	LL	85	167	374	752	811	1301	-	-	-	-	-	-	-
	TL	110	218	493	959	1008	1349	1438	1755	2074	2416	2783	3177	3603
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.4 / 6	2.5 / 6.3	3.4 / 8.4	3.6 / 9	4.4 / 11	5.2 / 13	6 / 15.1	7 / 17.4	7.9 / 19.9	9 / 22.5
12	LL	50	98	220	447	482	781	910	-	-	-	-	-	-
	TL	62	125	287	587	635	959	1062	1406	1651	1909	2183	2472	2779
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.9 / 7.2	3.2 / 8	4.2 / 10.6	5 / 12.4	5.7 / 14.3	6.6 / 16.4	7.4 / 18.6	8.3 / 20.9
14	LL		62	140	286	309	503	588	937	1359	-	-	-	-
	TL		78	180	373	403	661	773	1061	1364	1577	1794	2022	2260
	BRG		1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.7 / 6.8	3.7 / 9.3	4.8 / 12	5.5 / 13.9	6.3 / 15.8	7.1 / 17.7	7.9 / 19.8
16	LL		42	94	193	209	342	400	642	937	-	-	-	-
	TL		51	120	250	271	447	524	809	1041	1300	1523	1709	1904
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3.3 / 8.2	4.2 / 10.5	5.2 / 13.1	6.1 / 15.3	6.9 / 17.2	7.7 / 19.1
18	LL			67	137	148	243	285	458	672	937	-	-	-
	TL			82	174	189	314	369	599	820	1024	1249	1480	1644
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.8	3.7 / 9.3	4.6 / 11.6	5.7 / 14.2	6.7 / 16.8	7.4 / 18.6
20	LL			49	100	109	179	209	338	497	696	937	-	-
	TL			59	126	136	228	269	438	649	826	1009	1208	1423
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	3.3 / 8.2	4.2 / 10.5	5.1 / 12.7	6.1 / 15.2	7.2 / 17.9
22	LL				76	82	135	158	256	378	530	716	937	-
	TL				93	101	170	201	329	489	680	831	995	1173
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 6.9	3.8 / 9.5	4.6 / 11.6	5.5 / 13.9	6.5 / 16.3
24	LL				58	63	104	122	199	293	413	559	733	937
	TL				70	76	129	153	253	377	535	695	833	982
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2.3 / 5.8	3.3 / 8.2	4.2 / 10.6	5.1 / 12.7	6 / 15
26	LL				46	50	82	97	157	232	327	444	584	748
	TL				53	58	100	118	197	296	421	575	707	834
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 5	2.8 / 7	3.8 / 9.6	4.7 / 11.7	5.5 / 13.8
28	LL						66	78	126	187	264	358	472	606
	TL						78	93	156	235	336	460	607	716
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.3	2.4 / 6.1	3.3 / 8.3	4.4 / 10.9	5.1 / 12.8
30	LL						54	63	103	153	216	293	387	497
	TL						62	74	125	190	272	374	496	621
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.4	2.9 / 7.3	3.8 / 9.6	4.8 / 12
32	LL							52	85	126	179	243	321	413
	TL							59	101	154	222	307	408	529
	BRG							1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.7	2.6 / 6.4	3.4 / 8.5	4.4 / 10.9
34	LL								71	106	149	204	269	346
	TL								83	127	183	254	339	441
	BRG								1.5 / 3	1.5 / 3	1.7 / 4.2	2.3 / 5.7	3 / 7.6	3.9 / 9.8
36	LL								60	89	126	172	228	293
	TL								68	105	153	212	284	370
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.1	2.7 / 6.8	3.5 / 8.7
38	LL								51	76	108	147	194	251
	TL								56	87	128	178	240	313
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.6	2.4 / 6.1	3.2 / 7.9
40	LL									65	93	126	167	216
	TL									73	108	151	204	267
	BRG									1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.2 / 5.5	2.9 / 7.1
42	LL									56	80	109	145	187
	TL									61	91	128	174	228
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5	2.6 / 6.5
44	LL									49	70	95	126	163
	TL									52	77	110	149	196
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
46	LL										61	84	111	143
	TL										66	94	128	170
	BRG										1.5 / 3	1.5 / 3.2	1.7 / 4.2	2.2 / 5.5
48	LL										54	74	98	126
	TL										56	81	111	147
	BRG										1.5 / 3	1.5 / 3	1.6 / 3.9	2 / 5
50	LL											65	87	112
	TL											70	96	128
	BRG											1.5 / 3	1.5 / 3.6	1.9 / 4.6
52	LL											58	77	100
	TL											60	83	112
	BRG											1.5 / 3	1.5 / 3.3	1.7 / 4.3
54	LL											52	69	89
	TL											52	73	98
	BRG											1.5 / 3	1.5 / 3.1	1.6 / 4

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

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Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

3-Ply, 1.75" 1.6E true RigidLam LVL @ 125% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
10	LL	128	251	561	1128	1217	1951	-	-	-	-	-	-	-
	TL	164	327	739	1438	1512	2023	2157	2632	3111	3624	4174	4765	5404
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.4 / 6	2.5 / 6.3	3.4 / 8.4	3.6 / 9	4.4 / 11	5.2 / 13	6 / 15.1	7 / 17.4	7.9 / 19.9	9 / 22.5
12	LL	74	146	330	670	723	1172	1365	-	-	-	-	-	-
	TL	93	188	431	881	952	1439	1593	2109	2476	2864	3274	3708	4169
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.9 / 7.2	3.2 / 8	4.2 / 10.6	5 / 12.4	5.7 / 14.3	6.6 / 16.4	7.4 / 18.6	8.3 / 20.9
14	LL	47	93	210	429	463	755	882	1406	2038	-	-	-	-
	TL	57	117	271	559	605	992	1160	1591	2046	2366	2691	3033	3391
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.7 / 6.8	3.7 / 9.3	4.8 / 12	5.5 / 13.9	6.3 / 15.8	7.1 / 17.7	7.9 / 19.8
16	LL		62	142	290	314	514	601	963	1406	-	-	-	-
	TL		76	179	375	406	670	785	1214	1562	1950	2284	2564	2856
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3.3 / 8.2	4.2 / 10.5	5.2 / 13.1	6.1 / 15.3	6.9 / 17.2	7.7 / 19.1
18	LL		44	100	205	222	365	427	688	1008	1406	-	-	-
	TL		51	124	262	284	471	554	898	1230	1536	1874	2220	2466
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.8	3.7 / 9.3	4.6 / 11.6	5.7 / 14.2	6.7 / 16.8	7.4 / 18.6
20	LL			73	150	163	268	314	507	746	1044	1406	-	-
	TL			88	188	205	342	403	658	973	1240	1513	1811	2135
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	3.3 / 8.2	4.2 / 10.5	5.1 / 12.7	6.1 / 15.2	7.2 / 17.9
22	LL			55	113	123	202	237	384	566	795	1074	1406	-
	TL			64	139	151	255	301	494	734	1020	1246	1492	1759
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 6.9	3.8 / 9.5	4.6 / 11.6	5.5 / 13.9	6.5 / 16.3
24	LL				88	95	157	184	298	440	619	838	1100	1406
	TL				105	114	194	229	379	566	802	1043	1249	1473
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2.3 / 5.8	3.3 / 8.2	4.2 / 10.6	5.1 / 12.7	6 / 15
26	LL				69	75	124	145	236	348	491	666	876	1122
	TL				80	87	150	178	296	444	631	862	1060	1250
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 5	2.8 / 7	3.8 / 9.6	4.7 / 11.7	5.5 / 13.8
28	LL				55	60	99	116	189	280	396	538	708	908
	TL				62	68	117	140	234	353	504	691	910	1074
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.3	2.4 / 6.1	3.3 / 8.3	4.4 / 10.9	5.1 / 12.8
30	LL					49	81	95	155	229	324	440	580	746
	TL					53	93	111	188	284	408	560	745	931
	BRG					1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.4	2.9 / 7.3	3.8 / 9.6	4.8 / 12
32	LL						67	78	128	189	268	365	481	619
	TL						74	89	152	232	333	460	613	794
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.7	2.6 / 6.4	3.4 / 8.5	4.4 / 10.9
34	LL						56	65	107	158	224	305	403	520
	TL						60	72	124	190	275	381	509	661
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.3 / 5.7	3 / 7.6	3.9 / 9.8
36	LL							55	90	134	189	258	341	440
	TL							58	102	157	229	318	426	555
	BRG							1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.1	2.7 / 6.8	3.5 / 8.7
38	LL								77	114	161	220	291	376
	TL								84	131	192	267	360	470
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.6	2.4 / 6.1	3.2 / 7.9
40	LL								66	98	139	189	251	324
	TL								69	110	161	226	305	400
	BRG								1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.2 / 5.5	2.9 / 7.1
42	LL								57	85	120	164	217	280
	TL								58	92	137	192	261	342
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5	2.6 / 6.5
44	LL									74	105	143	189	245
	TL									77	116	164	224	295
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
46	LL									65	92	125	166	215
	TL									65	99	141	193	255
	BRG									1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.2	2.2 / 5.5
48	LL									57	81	110	146	189
	TL									55	84	121	166	221
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2 / 5
50	LL										72	98	130	168
	TL										72	104	144	192
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.6
52	LL										64	87	116	150
	TL										61	90	125	168
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 4.3
54	LL										57	78	103	134
	TL										52	78	109	147
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 4
56	LL											70	93	120
	TL											67	95	129
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.7
58	LL											63	84	108
	TL											58	83	113
	BRG											1.5 / 3	1.5 / 3	1.5 / 3.5

The PLF load values in this table are based upon the LVL member having lateral bracing at 24" o.c. or less along its entire length.

1-3/4" LVL members 16" and deeper must be a minimum of 2 plies unless designed by a design professional for a specific application.

Loads shown can be applied to the beam in addition to its own weight. See Roseburg EWP Design Guide for restrictions on side-loaded members.

This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

BRG = End / Interior = Required bearing length (inches), based on bearing stress of 575 psi.

Longer bearing lengths will be required if bearing surface has an allowable bearing stress of less than 575 psi.

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Allowable loads shown for multiple ply LVL members are also applicable to factory glued LVL beams with the same thickness as the combined multiple plies.

Nov. 2020

Roseburg

4-Ply, 1.75" 1.6E true RigidLam LVL @ 125% Roof (PLF) L/240 LL L/180 TL Douglas-fir

ALLOWABLE UNIFORM LOAD - POUNDS PER LINEAL FOOT (Allowable Stress Design)

Span (ft)	Depth	4.375"	5.5"	7.25"	9.25"	9.5"	11.25"	11.875"	14"	16"	18"	20"	22"	24"
10	LL	170	334	748	1504	1622	2602	-	-	-	-	-	-	-
	TL	219	436	985	1917	2016	2698	2876	3510	4148	4832	5565	6354	7205
	BRG	1.5 / 3	1.5 / 3	1.5 / 3.1	2.4 / 6	2.5 / 6.3	3.4 / 8.4	3.6 / 9	4.4 / 11	5.2 / 13	6 / 15.1	7 / 17.4	7.9 / 19.9	9 / 22.5
12	LL	99	195	440	893	965	1563	1820	-	-	-	-	-	-
	TL	124	251	574	1175	1270	1918	2124	2812	3302	3819	4365	4944	5558
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.4	1.9 / 4.8	2.9 / 7.2	3.2 / 8	4.2 / 10.6	5 / 12.4	5.7 / 14.3	6.6 / 16.4	7.4 / 18.6	8.3 / 20.9
14	LL	63	124	280	572	618	1007	1176	1874	2717	-	-	-	-
	TL	76	155	361	746	807	1323	1547	2121	2728	3155	3589	4043	4521
	BRG	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.5 / 3.6	2.3 / 5.8	2.7 / 6.8	3.7 / 9.3	4.8 / 12	5.5 / 13.9	6.3 / 15.8	7.1 / 17.7	7.9 / 19.8
16	LL		83	189	387	418	685	801	1285	1874	-	-	-	-
	TL		101	239	500	541	893	1047	1618	2082	2600	3045	3419	3808
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.8 / 4.5	2.1 / 5.3	3.3 / 8.2	4.2 / 10.5	5.2 / 13.1	6.1 / 15.3	6.9 / 17.2	7.7 / 19.1
18	LL		59	133	274	296	486	569	917	1343	1874	-	-	-
	TL		68	165	349	378	628	738	1198	1639	2048	2499	2960	3288
	BRG		1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.7 / 4.2	2.7 / 6.8	3.7 / 9.3	4.6 / 11.6	5.7 / 14.2	6.7 / 16.8	7.4 / 18.6
20	LL			97	201	217	357	418	676	994	1392	1874	-	-
	TL			117	251	273	456	537	877	1297	1653	2017	2415	2847
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	2.2 / 5.6	3.3 / 8.2	4.2 / 10.5	5.1 / 12.7	6.1 / 15.2	7.2 / 17.9
22	LL			73	151	164	270	316	512	755	1060	1432	1874	-
	TL			85	186	202	340	401	659	979	1360	1661	1989	2345
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.9 / 4.7	2.8 / 6.9	3.8 / 9.5	4.6 / 11.6	5.5 / 13.9	6.5 / 16.3
24	LL			57	117	127	209	245	397	587	825	1117	1466	1874
	TL			63	140	152	259	306	505	754	1069	1390	1665	1964
	BRG			1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2.3 / 5.8	3.3 / 8.2	4.2 / 10.6	5.1 / 12.7	6 / 15
26	LL				92	100	165	193	314	465	655	888	1167	1495
	TL				107	116	200	237	394	591	841	1149	1413	1667
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	2 / 5	2.8 / 7	3.8 / 9.6	4.7 / 11.7	5.5 / 13.8
28	LL				74	80	132	155	253	374	528	717	944	1211
	TL				82	90	157	186	312	471	672	921	1213	1432
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.3	2.4 / 6.1	3.3 / 8.3	4.4 / 10.9	5.1 / 12.8
30	LL				60	65	108	127	206	305	431	587	774	994
	TL				64	70	124	148	250	379	544	747	993	1242
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.4	2.9 / 7.3	3.8 / 9.6	4.8 / 12
32	LL				50	54	89	104	170	253	357	486	642	825
	TL				50	55	99	118	202	309	445	613	817	1059
	BRG				1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.9 / 4.7	2.6 / 6.4	3.4 / 8.5	4.4 / 10.9
34	LL						74	87	142	211	299	407	538	693
	TL						79	96	165	254	367	508	679	882
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.7 / 4.2	2.3 / 5.7	3 / 7.6	3.9 / 9.8
36	LL						63	74	120	178	253	344	455	587
	TL						64	77	136	210	305	424	568	740
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2.1 / 5.1	2.7 / 6.8	3.5 / 8.7
38	LL						53	63	102	152	215	294	389	501
	TL						51	63	112	175	256	357	480	626
	BRG						1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.4	1.8 / 4.6	2.4 / 6.1	3.2 / 7.9
40	LL							54	88	131	185	253	334	431
	TL							51	93	146	215	302	407	533
	BRG							1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.1	1.7 / 4.2	2.2 / 5.5	2.9 / 7.1
42	LL								76	113	160	219	290	374
	TL								77	123	182	257	348	457
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.8	2 / 5	2.6 / 6.5
44	LL								66	98	140	191	253	326
	TL								64	103	155	219	298	393
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5	1.8 / 4.6	2.4 / 5.9
46	LL								58	86	122	167	221	286
	TL								53	87	132	188	257	340
	BRG								1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.2	1.7 / 4.2	2.2 / 5.5
48	LL									76	108	147	195	253
	TL									73	112	161	222	295
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.6 / 3.9	2 / 5
50	LL									67	95	131	173	224
	TL									62	96	139	192	256
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.6	1.9 / 4.6
52	LL									60	85	116	154	199
	TL									52	82	120	167	224
	BRG									1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.3	1.7 / 4.3
54	LL										76	104	138	178
	TL										70	103	145	196
	BRG										1.5 / 3	1.5 / 3	1.5 / 3.1	1.6 / 4
56	LL										68	93	124	160
	TL										59	89	126	172
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.7
58	LL										61	84	111	144
	TL										50	77	110	150
	BRG										1.5 / 3	1.5 / 3	1.5 / 3	1.5 / 3.5

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This table may be used for either simple or multiple spans. Span is centerline of bearing to centerline of bearing.

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Nov. 2020