



BROADSPAN®

MANUFACTURED BY  Georgia-Pacific

LVL User's Guide

Technical data for
LVL beam and header
applications in residential
floor and roof systems



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Product Line

You've probably been building with traditional sawn lumber beams and headers for as long as you've been building. Through advances in technology and design, Broadspan® laminated veneer lumber (LVL) has become an excellent alternative to traditional sawn lumber. Broadspan LVL is a strong, stiff, consistent and predictable building material that can support heavy loads and meet longer span requirements than most conventional lumber.

Broadspan LVL is provided with a Lifetime Limited Warranty. See manufacturer's warranty for terms, conditions and limitations, available at www.broadspanewp.com or by calling 877-822-4585.

Broadspan 2.0E-3100F_b LVL

- 1¾" and 3½" thick in I-Joist and lumber compatible depths to 24" deep

Broadspan 1.9E-2750F_b LVL

- 1¾" thick in I-Joist and lumber compatible depths to 24" deep



FiberGuard™ Sealant

Broadspan LVL is coated on faces, edges and at bundle ends with a modified acrylic emulsion film containing a proprietary blend of waxes, acrylic latex, and pigment. It is designed to reduce the moisture and vapor absorption rate and reduce the damage that an unprotected product may endure. The sealer includes a UV inhibitor that slows the rate of color change caused by the sun's ultraviolet rays. The sealer helps to reduce cupping, twisting,

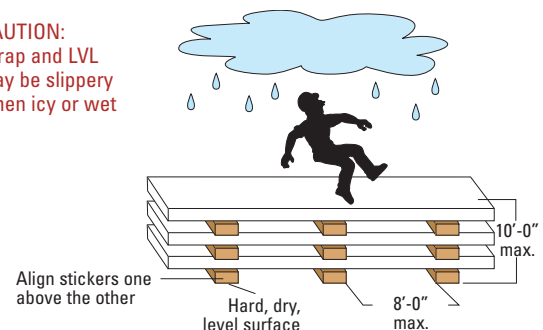
warping, bowing, swelling, splitting, and water absorption when compared to an unprotected product. While the sealer does not make the product water- or weather-proof and should not be expected to provide long-term wood preservation, it does improve protection from the elements during the short-term, incidental exposure cycles common during construction.

Storage, Handling and Installation

You're purchasing a premium Broadspan® product - protect your investment! Proper product care minimizes problems. Failure to follow good procedures for storage, handling and installation could result in unsatisfactory performance and unsafe structures. When handling Broadspan products use personal protective equipment for eyes, hands and feet.

- Broadspan LVL should be stored and handled lying flat and protected from the weather (sun and precipitation). Keep covered until installed.
- Keep the LVL above ground to minimize the absorption of ground moisture and allow air circulation.
- Re-cover unused products with bundle wrap. Repair damage to bundle wrap with tape, more bundle wrap, plastic or weatherproof covering.
- Broadspan LVL is only to be used in covered, dry use conditions only (moisture content less than 16%). When in contact with concrete or masonry, protect LVL per code.
- Broadspan LVL is produced without camber so either edge can be used as the top (edgewise orientation).
- Nails installed in the narrow face of the LVL must be spaced no closer than 3" (8d), 4" (10-12d, 16d sinker) and 8" (16d).
- Do not ship or install any damaged LVL.
- Deeper LVL depths have a greater potential for cupping and damage from improper storage and handling.
- Except for cutting to length, LVL shall not be cut, drilled or notched, except as shown in this guide. Heel cuts may be possible. Contact your Broadspan representative.
- 1¾" plies that are deeper than 14" require multiple plies, or must be full-depth blocked or restrained full-depth on both sides of the ply at intervals not exceeding 24" o.c.
- Lateral support of LVL compression edge is required at intervals not exceeding 24" o.c. and at bearing locations.
- Do not splice LVL like dimension lumber. LVL ends must butt over a support that provides the bearing required at each end of the LVL.
- Fasteners, hangers or connectors for LVL framing either from or into preservative or fire-retardant treated wood must be hot-dip galvanized, or stainless steel, as required by code and the type of treatment.
- Treating Broadspan LVL is not recommended, voids the warranty and could present a safety and performance concern.

CAUTION:
Wrap and LVL
may be slippery
when icy or wet



NOTE: These are general recommendations and in some cases, additional precautions may be required.



BROADSPAN[®]

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LVL User's Guide

2.0E-3100F_b LVL



Design Properties

1 3/4" Broadspan® 2.0E-3100F_B LVL Allowable Design Values

Design Property	Depth								
	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16" ⁽⁶⁾	18" ⁽⁶⁾	24" ⁽⁶⁾
Moment (ft.-lbs.)	4280	6710	7049	9631	10642	14422	18454	22936	39010
Shear (lbs.)	2453	3130	3214	3806	4018	4737	5413	6090	8120
Moment of Inertia (in ⁴)	56	115	125	208	244	400	597	851	2016
Weight (lbs./lin. ft.)	3.4	4.4	4.5	5.3	5.6	6.6	7.6	8.5	11.4

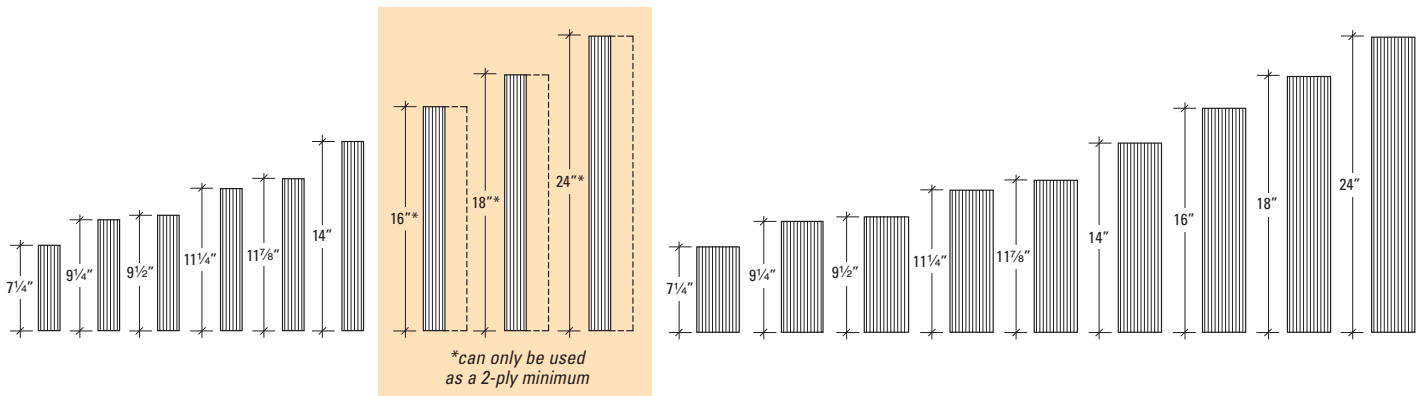
- For multiple plies, multiply table values by the number of plies.
- Lateral support of LVL compression edge is required at intervals of 24" o.c. or closer.
- Lateral restraint of LVL is required at bearing locations.
- Values are based on 100% load duration.
- Weight shown is for design. Shipping weights are heavier.
- All plies deeper than 14" require multiple plies, or must be full-depth blocked or full-depth restrained at intervals not exceeding 24" o.c.

3 1/2" Broadspan 2.0E-3100F_B LVL Allowable Design Values

Design Property	Depth								
	7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16"	18"	24"
Moment (ft.-lbs.)	8560	13420	14098	19262	21284	28844	36908	45872	78020
Shear (lbs.)	4906	6259	6428	7613	8035	9473	10827	12180	16240
Moment of Inertia (in ⁴)	112	230	250	416	488	800	1194	1702	4032
Weight (lbs./lin. ft.)	6.9	8.8	9.0	10.7	11.3	13.3	15.2	17.1	22.8

- For multiple plies, multiply table values by the number of plies.
- Lateral support of LVL compression edge is required at intervals of 24" o.c. or closer.
- Lateral restraint of LVL is required at bearing locations.
- Values are based on 100% load duration.
- Weight shown is for design. Shipping weights are heavier.

1 3/4" and 3 1/2" Broadspan 2.0E-3100F_B LVL Available Sizes



Referenced dimensions are nominal and are used for design purposes.

Broadspan 2.0E-3100F_B LVL Allowable Design Stresses

Modulus of Elasticity	$E = 2.0 \times 10^6$ psi
Bending Stress	$F_b = 3100$ psi
Shear (joist)	$F_v = 290$ psi
Compression Perpendicular to Grain (joist)	$F_{c\perp} = 750$ psi
Compression Parallel to Grain	$F_{c\parallel} = 3000$ psi

NOTES

- F_b based on 12" depths. For other depths, multiply by $(12/d)^{1.65}$. For depths less than 3 1/2", use $d=3 1/2"$.
- Design stresses are based on 100% load duration.
- $F_{c\perp}$ and E shall not be increased for duration of load.

General Notes for Allowable Uniform Load Tables

General notes apply to tables on pages 7-9.

1. Tables are for one-ply 1 3/4" thick LVL. For multiple plies, multiply table values by the number of plies. A single 3 1/2" thick ply can be substituted for any two 1 3/4" thick plies. Minimum bearing lengths shown for one-ply 1 3/4" will be the same for multiple plies. See pages 27-28 for multiple-ply connection 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 weight.
3. Tables are based on uniform loads and the most restrictive of simple or continuous spans (measured center-to-center of bearings) under dry-use conditions (moisture content less than 16%). Refer to Broadspan sizing software for other loads or span conditions.
4. Lateral support of beam compression edge(s) is required at intervals not exceeding 24" o.c. and at bearing locations.
5. Broadspan LVL beams are made without camber; therefore, in addition to complying with the deflection limits of the applicable building code, other deflection considerations, such as long term deflection under sustained loads must be evaluated.
6. 1 3/4" thick LVL deeper than 14" must only be used in multiple-ply members.
7. To size a member for a span not shown, use capacities for the next larger span shown.
8. For multiple span LVL, end spans must be at least 40% of the adjacent span.
9. Bearing lengths are based on 750 psi bearing stress. Bearing stresses cannot be increased for duration of load. **Bearing length may need to be increased if support member's allowable bearing stress is less.**

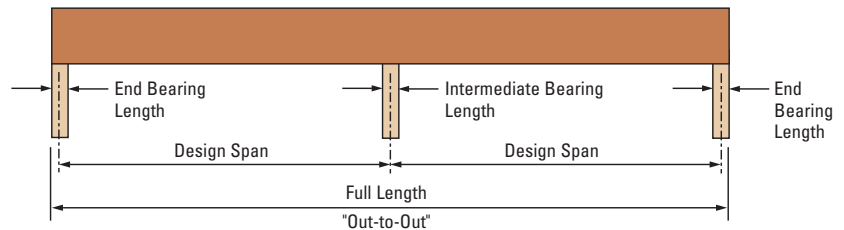
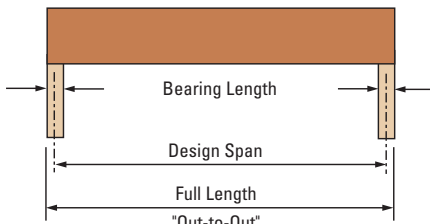
FLOOR BEAM SIZING:

- To size a beam for use in a floor, it is necessary to check both live load and total load. Make sure the selected beam capacity meets or exceeds the applied loads (both live and total). When no live load is shown, total load will control. Spans shown are measured center-to-center of bearing.
- Check local code for other deflection criteria.
- For deflection limits of L/480 multiply loads shown in live load row by 0.75. The allowable load remains the same. Verify beam capacity meets or exceeds.

ROOF BEAM SIZING:

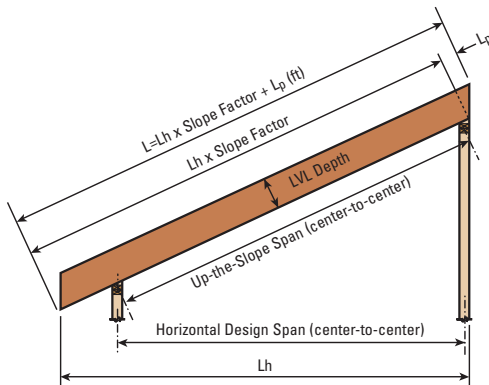
- To size a beam for use in a roof, it is necessary to check both live load and total load. When no live load is shown, total load will control. Spans shown are measured center-to-center of bearing.
- Check local code for other deflection criteria.
- Roof must have positive slope to prevent ponding.
- Tables will accommodate beam slopes to a maximum of 2:12. For greater slopes, use the up-the-slope span (see diagram below) instead of horizontal span.

Span Details



Up-the-Slope Spans and Cutting Lengths for Sloped Roofs

Use for tables on pages 8 and 9 when slope exceeds 2:12



Slope	Slope in 12	Slope Factor	Framing Member Depth (in.)					
			9.5	11.875	14	16	18	24
			Amount to Increase Length for Plumb Cut, L _p (feet)					
2 1/2 in 12	2.5	1.021	0.165	0.206	0.243	0.278	0.313	0.417
3 in 12	3	1.031	0.198	0.247	0.292	0.333	0.375	0.500
3 1/2 in 12	3.5	1.042	0.231	0.289	0.340	0.389	0.438	0.583
4 in 12	4	1.054	0.264	0.330	0.389	0.444	0.500	0.667
4 1/2 in 12	4.5	1.068	0.297	0.371	0.438	0.500	0.563	0.750
5 in 12	5	1.083	0.330	0.412	0.486	0.556	0.625	0.833
6 in 12	6	1.118	0.396	0.495	0.583	0.667	0.750	1.000
7 in 12	7	1.158	0.462	0.577	0.681	0.778	0.875	1.167
8 in 12	8	1.202	0.528	0.660	0.778	0.889	1.000	1.333
9 in 12	9	1.250	0.594	0.742	0.875	1.000	1.125	1.500
10 in 12	10	1.302	0.660	0.825	0.972	1.111	1.250	1.667
11 in 12	11	1.357	0.726	0.907	1.069	1.222	1.375	1.833
12 in 12	12	1.414	0.792	0.990	1.167	1.333	1.500	2.000

When using the allowable uniform load tables for roof LVL with slopes greater than 2" per foot, use the up-the-slope span for the tables on pages 8-9.

EXAMPLE:

10/12 slope and 18'-0" horizontal design span, with 2'-0" overhang (horizontal) one end, 2x4 walls.
 Up-the-slope span: 18' x 1.302 = 23.44' - use 24' member span column to check load capacity in tables.
 Overall length: L_h = 2' - 3"/12 (minimum required bearing both ends) + 3.5"/12 + 18' + 3.5"/12 = 20.333'
 If a 14" LVL will be used, L_p = 0.972'
 L = (20.333' x 1.302) + 0.972' = 27.446' = 27'-5 3/8"

2.0E-3100F_b Allowable Uniform Loads (PLF) – 100%

Floor – LL (L/360), TL (L/240) (See page 6 for General Notes)

Span (ft)	Condition	1 3/4" WIDTH								
		7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16"	18"	24"
6	LL	762								
	TL	776	1046	1082	1348	1450	1827	2232	2698	4629
	BRG	1.8 / 4.4	2.4 / 6.0	2.5 / 6.2	3.1 / 7.7	3.3 / 8.3	4.2 / 10.4	5.1 / 12.8	6.2 / 15.4	10.6 / 26.4
7	LL	480								
	TL	647	864	892	1102	1181	1470	1772	2110	3408
	BRG	1.7 / 4.3	2.3 / 5.8	2.4 / 5.9	2.9 / 7.3	3.1 / 7.9	3.9 / 9.8	4.7 / 11.8	5.6 / 14.1	9.1 / 22.7
8	LL	322	668	724						
	TL	479	736	759	932	996	1229	1469	1731	2695
	BRG	1.5 / 3.6	2.2 / 5.6	2.3 / 5.8	2.8 / 7.1	3.0 / 7.6	3.7 / 9.4	4.5 / 11.2	5.3 / 13.2	8.2 / 20.5
9	LL	226	469	508						
	TL	335	640	660	807	861	1056	1254	1468	2229
	BRG	1.5 / 3.5	2.2 / 5.5	2.3 / 5.7	2.8 / 6.9	3.0 / 7.4	3.6 / 9.0	4.3 / 10.7	5.0 / 12.6	7.6 / 19.1
10	LL	165	342	370	615	724				
	TL	244	509	551	711	758	925	1093	1274	1899
	BRG	1.5 / 3.5	1.9 / 4.8	2.1 / 5.2	2.7 / 6.8	2.9 / 7.2	3.5 / 8.8	4.2 / 10.4	4.9 / 12.1	7.2 / 18.1
11	LL	124	257	278	462	544				
	TL	182	381	413	631	677	823	969	1124	1654
	BRG	1.5 / 3.5	1.6 / 4.0	1.7 / 4.3	2.6 / 6.6	2.8 / 7.1	3.4 / 8.6	4.1 / 10.2	4.7 / 11.8	6.9 / 17.3
12	LL	95	198	214	356	419	686			
	TL	140	292	317	529	586	741	870	1006	1465
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.6	2.4 / 6.0	2.7 / 6.7	3.4 / 8.5	4.0 / 9.9	4.6 / 11.5	6.7 / 16.7
13	LL	75	156	169	280	329	540			
	TL	109	229	248	415	488	674	789	911	1314
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.1 / 5.1	2.4 / 6.0	3.3 / 8.3	3.9 / 9.8	4.5 / 11.3	6.5 / 16.3
14	LL	60	125	135	224	264	432	645		
	TL	87	183	198	331	390	582	722	831	1192
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.8 / 4.4	2.1 / 5.2	3.1 / 7.8	3.9 / 9.6	4.4 / 11.1	6.4 / 15.9
15	LL		101	110	182	214	351	524	747	
	TL		148	160	268	316	506	649	765	1090
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.8	1.8 / 4.5	2.9 / 7.2	3.7 / 9.3	4.4 / 10.9	6.2 / 15.6
16	LL		83	90	150	177	289	432	615	
	TL		121	131	220	259	428	569	708	1004
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.6 / 4.0	2.6 / 6.5	3.5 / 8.7	4.3 / 10.8	6.1 / 15.3
17	LL		70	75	125	147	241	360	513	
	TL		100	109	183	215	355	503	626	930
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.3 / 5.8	3.3 / 8.1	4.1 / 10.1	6.0 / 15.1
18	LL		59	64	105	124	203	303	432	
	TL		84	91	153	180	298	448	558	866
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.0 / 5.1	3.1 / 7.7	3.8 / 9.6	5.9 / 14.9
19	LL			54	90	105	173	258	367	
	TL			77	129	153	253	379	500	811
	BRG			1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.8 / 4.6	2.7 / 6.9	3.6 / 9.0	5.9 / 14.7
20	LL				77	90	148	221	315	747
	TL				110	130	216	324	450	762
	BRG				1.5 / 3.5	1.5 / 3.5	1.6 / 4.1	2.5 / 6.2	3.4 / 8.6	5.8 / 14.5
21	LL				66	78	128	191	272	645
	TL				94	112	185	279	400	696
	BRG				1.5 / 3.5	1.5 / 3.5	1.5 / 3.7	2.2 / 5.6	3.2 / 8.0	5.6 / 13.9
22	LL				58	68	111	166	237	561
	TL				81	96	160	242	346	633
	BRG				1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.0 / 5.1	2.9 / 7.3	5.3 / 13.3
23	LL					59	97	145	207	491
	TL					84	140	211	302	579
	BRG					1.5 / 3.5	1.5 / 3.5	1.8 / 4.6	2.6 / 6.6	5.1 / 12.7
24	LL						86	128	182	432
	TL						122	184	265	530
	BRG						1.5 / 3.5	1.7 / 4.2	2.4 / 6.1	4.8 / 12.1
25	LL						76	113	161	382
	TL						107	162	233	488
	BRG						1.5 / 3.5	1.5 / 3.9	2.2 / 5.6	4.6 / 11.6
26	LL						67	101	143	340
	TL						95	143	207	450
	BRG						1.5 / 3.5	1.5 / 3.6	2.0 / 5.1	4.5 / 11.1
28	LL						54	81	115	272
	TL						74	113	164	387
	BRG						1.5 / 3.5	1.5 / 3.5	1.7 / 4.4	4.1 / 10.3
30	LL							66	93	221
	TL							91	131	320
	BRG							1.5 / 3.5	1.5 / 3.8	3.7 / 9.2
32	LL							54	77	182
	TL							73	107	262
	BRG							1.5 / 3.5	1.5 / 3.5	3.2 / 8.0

BRG = Minimum End / Intermediate Bearing Length (inches)

* 1 3/4" thick LVL deeper than 14" must only be used in multiple-ply members.

2.0E–3100F_b Allowable Uniform Loads (PLF) – 115%

Roof Snow – LL (L/240), TL (L/180) (See page 6 for General Notes)

Span (ft)	Condition	1 3/4" WIDTH								
		7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16"*	18"*	24"*
6	LL									
	TL	893	1204	1245	1551	1668	2102	2568	3104	5325
	BRG	2.0 / 5.1	2.8 / 6.9	2.8 / 7.1	3.5 / 8.9	3.8 / 9.5	4.8 / 12.0	5.9 / 14.7	7.1 / 17.7	12.2 / 30.4
7	LL	720								
	TL	745	994	1027	1268	1359	1691	2039	2427	3920
	BRG	2.0 / 5.0	2.7 / 6.6	2.7 / 6.8	3.4 / 8.5	3.6 / 9.1	4.5 / 11.3	5.4 / 13.6	6.5 / 16.2	10.5 / 26.1
8	LL	482								
	TL	612	847	874	1072	1146	1414	1690	1992	3101
	BRG	1.9 / 4.7	2.6 / 6.5	2.7 / 6.7	3.3 / 8.2	3.5 / 8.7	4.3 / 10.8	5.2 / 12.9	6.1 / 15.2	9.5 / 23.6
9	LL	339	704							
	TL	448	737	760	928	991	1215	1443	1689	2565
	BRG	1.5 / 3.8	2.5 / 6.3	2.6 / 6.5	3.2 / 8.0	3.4 / 8.5	4.2 / 10.4	4.9 / 12.4	5.8 / 14.5	8.8 / 22.0
10	LL	247	513	556						
	TL	326	613	644	819	873	1065	1259	1466	2186
	BRG	1.5 / 3.5	2.3 / 5.8	2.5 / 6.1	3.1 / 7.8	3.3 / 8.3	4.1 / 10.1	4.8 / 12.0	5.6 / 14.0	8.3 / 20.8
11	LL	186	385	418	693					
	TL	244	506	531	727	779	948	1116	1294	1904
	BRG	1.5 / 3.5	2.1 / 5.3	2.2 / 5.6	3.0 / 7.6	3.3 / 8.2	4.0 / 9.9	4.7 / 11.7	5.4 / 13.6	8.0 / 19.9
12	LL	143	297	322	534	628				
	TL	187	391	424	610	674	853	1002	1159	1686
	BRG	1.5 / 3.5	1.8 / 4.5	1.9 / 4.8	2.8 / 7.0	3.1 / 7.7	3.9 / 9.8	4.6 / 11.5	5.3 / 13.2	7.7 / 19.3
13	LL	112	233	253	420	494				
	TL	146	307	333	519	574	776	909	1049	1513
	BRG	1.5 / 3.5	1.5 / 3.8	1.6 / 4.1	2.6 / 6.4	2.8 / 7.1	3.8 / 9.6	4.5 / 11.3	5.2 / 13.0	7.5 / 18.7
14	LL	90	187	203	336	396	648			
	TL	117	245	266	443	494	670	832	957	1372
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.4 / 5.9	2.6 / 6.6	3.6 / 8.9	4.4 / 11.1	5.1 / 12.8	7.3 / 18.3
15	LL		152	165	273	322	527			
	TL		198	215	359	423	583	747	881	1255
	BRG		1.5 / 3.5	1.5 / 3.5	2.1 / 5.1	2.4 / 6.0	3.3 / 8.3	4.3 / 10.7	5.0 / 12.6	7.2 / 17.9
16	LL		125	136	225	265	434	648		
	TL		163	176	295	348	512	656	815	1156
	BRG		1.5 / 3.5	1.5 / 3.5	1.8 / 4.5	2.1 / 5.3	3.1 / 7.8	4.0 / 10.0	5.0 / 12.4	7.0 / 17.6
17	LL		104	113	188	221	362	540		
	TL		135	146	245	289	452	580	722	1071
	BRG		1.5 / 3.5	1.5 / 3.5	1.6 / 4.0	1.9 / 4.7	2.9 / 7.3	3.8 / 9.4	4.7 / 11.7	6.9 / 17.3
18	LL		88	95	158	186	305	455		
	TL		113	123	206	243	400	516	643	998
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.7 / 4.2	2.7 / 6.9	3.5 / 8.9	4.4 / 11.0	6.8 / 17.1
19	LL			81	135	158	259	387	551	
	TL			104	174	205	339	463	576	934
	BRG			1.5 / 3.5	1.5 / 3.5	1.5 / 3.7	2.5 / 6.1	3.3 / 8.4	4.2 / 10.4	6.8 / 16.9
20	LL				115	136	222	332	473	
	TL				148	175	290	417	519	878
	BRG				1.5 / 3.5	1.5 / 3.5	2.2 / 5.5	3.2 / 7.9	4.0 / 9.9	6.7 / 16.7
21	LL				100	117	192	287	408	
	TL				128	151	249	375	470	802
	BRG				1.5 / 3.5	1.5 / 3.5	2.0 / 5.0	3.0 / 7.5	3.8 / 9.4	6.4 / 16.0
22	LL				87	102	167	249	355	
	TL				110	130	216	325	427	730
	BRG				1.5 / 3.5	1.5 / 3.5	1.8 / 4.5	2.7 / 6.8	3.6 / 9.0	6.1 / 15.3
23	LL				89	146	218	311		
	TL				113	188	283	390	511	667
	BRG				1.5 / 3.5	1.6 / 4.1	2.5 / 6.2	3.4 / 8.6	4.4 / 11.0	6.8 / 17.1
24	LL				129	192	273			
	TL				165	248	356	473	612	
	BRG				1.5 / 3.8	2.3 / 5.7	3.3 / 8.1	4.3 / 10.7	5.4 / 13.6	8.0 / 19.9
25	LL				114	170	242			
	TL				145	219	314	417	543	802
	BRG				1.5 / 3.5	2.1 / 5.2	3.0 / 7.5	3.9 / 9.8	5.0 / 12.6	7.2 / 17.9
26	LL				101	151	215	299	408	
	TL				128	194	278	387	500	730
	BRG				1.5 / 3.5	1.9 / 4.8	2.8 / 6.9	3.7 / 9.3	4.7 / 11.7	6.9 / 17.3
28	LL				81	121	172	242	325	
	TL				101	154	221	299	390	511
	BRG				1.5 / 3.5	1.6 / 4.1	2.4 / 5.9	3.3 / 8.1	4.2 / 10.4	6.8 / 17.1
30	LL					98	140	199	273	
	TL					124	178	256	332	473
	BRG					1.5 / 3.5	2.0 / 5.1	2.9 / 7.3	3.8 / 9.4	5.0 / 12.6
32	LL					81	115	166	225	
	TL					100	145	204	273	390
	BRG					1.5 / 3.5	1.8 / 4.4	2.7 / 6.8	3.6 / 9.0	5.4 / 13.6

BRG = Minimum End / Intermediate Bearing Length (inches)

* 1 3/4" thick LVL deeper than 14" must only be used in multiple-ply members.

2.0E-3100F_b Allowable Uniform Loads (PLF) – 125%

Roof Non-Snow – LL (L/240), TL (L/180) (See page 6 for General Notes)

Span (ft)	Condition	1 3/4" WIDTH								
		7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16"*	18"*	24"*
6	LL									
	TL	971	1309	1354	1686	1814	2285	2792	3375	5789
	BRG	2.2 / 5.5	3.0 / 7.5	3.1 / 7.7	3.9 / 9.6	4.1 / 10.4	5.2 / 13.1	6.4 / 16.0	7.7 / 19.3	13.2 / 33.1
7	LL	720								
	TL	810	1081	1117	1379	1478	1839	2217	2639	4262
	BRG	2.2 / 5.4	2.9 / 7.2	3.0 / 7.4	3.7 / 9.2	3.9 / 9.9	4.9 / 12.3	5.9 / 14.8	7.0 / 17.6	11.4 / 28.4
8	LL	482								
	TL	640	921	950	1166	1247	1538	1838	2166	3372
	BRG	1.9 / 4.9	2.8 / 7.0	2.9 / 7.2	3.6 / 8.9	3.8 / 9.5	4.7 / 11.7	5.6 / 14.0	6.6 / 16.5	10.3 / 25.7
9	LL	339	704	762						
	TL	448	802	827	1010	1078	1321	1569	1837	2789
	BRG	1.5 / 3.8	2.7 / 6.9	2.8 / 7.1	3.5 / 8.7	3.7 / 9.2	4.5 / 11.3	5.4 / 13.4	6.3 / 15.7	9.6 / 23.9
10	LL	247	513	556						
	TL	326	667	700	890	949	1158	1369	1594	2377
	BRG	1.5 / 3.5	2.5 / 6.3	2.7 / 6.7	3.4 / 8.5	3.6 / 9.0	4.4 / 11.0	5.2 / 13.0	6.1 / 15.2	9.1 / 22.6
11	LL	186	385	418	693	815				
	TL	244	509	552	791	848	1031	1213	1408	2071
	BRG	1.5 / 3.5	2.1 / 5.3	2.3 / 5.8	3.3 / 8.3	3.6 / 8.9	4.3 / 10.8	5.1 / 12.7	5.9 / 14.7	8.7 / 21.7
12	LL	143	297	322	534	628				
	TL	187	391	424	664	733	928	1090	1260	1834
	BRG	1.5 / 3.5	1.8 / 4.5	1.9 / 4.8	3.0 / 7.6	3.4 / 8.4	4.2 / 10.6	5.0 / 12.5	5.8 / 14.4	8.4 / 21.0
13	LL	112	233	253	420	494	810			
	TL	146	307	333	555	624	844	989	1141	1646
	BRG	1.5 / 3.5	1.5 / 3.8	1.6 / 4.1	2.7 / 6.9	3.1 / 7.7	4.2 / 10.5	4.9 / 12.2	5.6 / 14.1	8.2 / 20.4
14	LL	90	187	203	336	396	648			
	TL	117	245	266	443	522	729	905	1041	1492
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.4 / 5.9	2.8 / 7.0	3.9 / 9.7	4.8 / 12.1	5.6 / 13.9	8.0 / 19.9
15	LL		152	165	273	322	527	787		
	TL		198	215	359	423	634	813	958	1365
	BRG		1.5 / 3.5	1.5 / 3.5	2.1 / 5.1	2.4 / 6.0	3.6 / 9.1	4.6 / 11.6	5.5 / 13.7	7.8 / 19.5
16	LL		125	136	225	265	434	648		
	TL		163	176	295	348	557	713	887	1257
	BRG		1.5 / 3.5	1.5 / 3.5	1.8 / 4.5	2.1 / 5.3	3.4 / 8.5	4.3 / 10.9	5.4 / 13.5	7.7 / 19.2
17	LL		104	113	188	221	362	540	769	
	TL		135	146	245	289	476	631	785	1165
	BRG		1.5 / 3.5	1.5 / 3.5	1.6 / 4.0	1.9 / 4.7	3.1 / 7.7	4.1 / 10.2	5.1 / 12.7	7.5 / 18.9
18	LL		88	95	158	186	305	455	648	
	TL		113	123	206	243	400	562	699	1086
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.7 / 4.2	2.7 / 6.9	3.9 / 9.6	4.8 / 12.0	7.4 / 18.6
19	LL			81	135	158	259	387	551	
	TL			104	174	205	339	504	627	1016
	BRG			1.5 / 3.5	1.5 / 3.5	1.5 / 3.7	2.5 / 6.1	3.6 / 9.1	4.5 / 11.3	7.4 / 18.4
20	LL				115	136	222	332	473	
	TL				148	175	290	435	565	955
	BRG				1.5 / 3.5	1.5 / 3.5	2.2 / 5.5	3.3 / 8.3	4.3 / 10.8	7.3 / 18.2
21	LL				100	117	192	287	408	
	TL				128	151	249	375	512	873
	BRG				1.5 / 3.5	1.5 / 3.5	2.0 / 5.0	3.0 / 7.5	4.1 / 10.2	7.0 / 17.5
22	LL				87	102	167	249	355	
	TL				110	130	216	325	465	795
	BRG				1.5 / 3.5	1.5 / 3.5	1.8 / 4.5	2.7 / 6.8	3.9 / 9.7	6.7 / 16.6
23	LL				89	146	218	311		
	TL				113	188	283	406	726	
	BRG				1.5 / 3.5	1.6 / 4.1	2.5 / 6.2	3.6 / 8.9	6.4 / 15.9	
24	LL				129	192	273	648		
	TL				165	248	356	666		
	BRG				1.5 / 3.8	2.3 / 5.7	3.3 / 8.1	6.1 / 15.2		
25	LL				114	170	242	573		
	TL				145	219	314	613		
	BRG				1.5 / 3.5	2.1 / 5.2	3.0 / 7.5	5.8 / 14.6		
26	LL				101	151	215	510		
	TL				128	194	278	566		
	BRG				1.5 / 3.5	1.9 / 4.8	2.8 / 6.9	5.6 / 14.0		
28	LL				81	121	172	408		
	TL				101	154	221	486		
	BRG				1.5 / 3.5	1.6 / 4.1	2.4 / 5.9	5.2 / 13.0		
30	LL						98	140	332	
	TL						124	178	422	
	BRG						1.5 / 3.5	2.0 / 5.1	4.8 / 12.1	
32	LL						81	115	273	
	TL						100	145	353	
	BRG						1.5 / 3.5	1.8 / 4.4	4.3 / 10.8	

BRG = Minimum End / Intermediate Bearing Length (inches)

* 1 3/4" thick LVL deeper than 14" must only be used in multiple-ply members.

2.0E-3100F_b Beam Selection

GENERAL NOTES

General notes apply to tables on pages 10-14.

1. Values shown are applicable to Broadspan LVL used in covered, dry use condition only (moisture content less than 16%).
2. Lateral support of LVL compression edge is required at intervals not exceeding 24" o.c. and at bearing locations.
3. Broadspan LVL beams are made without camber; therefore, in addition to complying with the deflection limits of the applicable building code, other deflection considerations, such as long term deflection under sustained loads must be evaluated.
4. Roof surface must slope a minimum of 1/4" in 12 or as required for drainage.
5. Tables are based on uniform loads and the most restrictive of simple

or continuous spans (measured center-to-center of bearing), all spans being equal in length.

6. Tables include most restrictive case of roof truss or roof framing with 0' to 2' maximum overhang.
7. Roof beam deflection criteria are L/240 live load and L/180 total load.
8. Floor beam deflection criteria are L/360 live load and L/240 total load.
9. Headers supporting floor and roof include an 80 plf wall load.
10. Roof live and dead loads shown are applied vertically to the horizontal projection of the roof.
11. Some sizes may not be available in your region. Contact your local Broadspan dealer for availability.

Floor Beams – One Story – LL (L/360), TL (L/240)

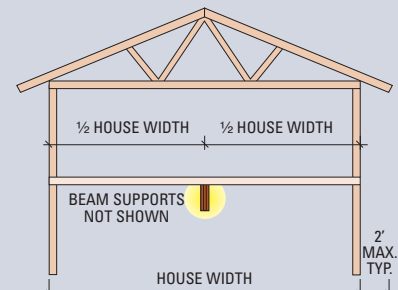
Floor Load (PSF)	House Width	Column Spacing (Maximum Beam Span)							
		6'- 0"	7'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"
40LL + 10DL	24'	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"
					5 1/4" x 7 1/4"		5 1/4" x 9 1/2"	5 1/4" x 11 1/4"	5 1/4" x 14"
	28'	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/2"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"
				5 1/4" x 7 1/4"		5 1/4" x 9 1/4"		5 1/4" x 11 7/8"	5 1/4" x 14"
	32'	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 11 7/8"	3 1/2" x 14"	3 1/2" x 16"
				5 1/4" x 7 1/4"		5 1/4" x 9 1/4"	5 1/4" x 11 1/4"		5 1/4" x 14"
	36'	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"	3 1/2" x 18"
				5 1/4" x 7 1/4"		5 1/4" x 9 1/4"	5 1/4" x 11 1/4"	5 1/4" x 14"	5 1/4" x 16"
	40'	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/2"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"	3 1/2" x 18"
			5 1/4" x 7 1/4"		5 1/4" x 9 1/4"	5 1/4" x 9 1/4"	5 1/4" x 11 1/4"	5 1/4" x 14"	5 1/4" x 16"
	44'	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"	3 1/2" x 18"
			5 1/4" x 7 1/4"		5 1/4" x 9 1/4"	5 1/4" x 9 1/2"	5 1/4" x 11 7/8"	5 1/4" x 14"	5 1/4" x 16"
40LL + 25DL	24'	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"
				5 1/4" x 7 1/4"	5 1/4" x 7 1/4"			5 1/4" x 11 1/4"	5 1/4" x 14"
	28'	3 1/2" x 7 1/4"	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 11 7/8"	3 1/2" x 14"	3 1/2" x 18"
				5 1/4" x 7 1/4"		5 1/4" x 9 1/4"	5 1/4" x 11 1/4"	5 1/4" x 11 7/8"	5 1/4" x 14"
	32'	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/2"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 16"	3 1/2" x 18"
			5 1/4" x 7 1/4"	5 1/4" x 7 1/4"	5 1/4" x 9 1/4"	5 1/4" x 9 1/4"	5 1/4" x 11 1/4"	5 1/4" x 14"	5 1/4" x 16"
	36'	3 1/2" x 7 1/4"	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 11 7/8"	3 1/2" x 14"	3 1/2" x 18"	3 1/2" x 24"
			5 1/4" x 7 1/4"		5 1/4" x 9 1/4"	5 1/4" x 9 1/4"	5 1/4" x 11 1/4"	5 1/4" x 14"	5 1/4" x 16"
	40'	3 1/2" x 9 1/4"	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 11 7/8"	3 1/2" x 14"	3 1/2" x 16"	3 1/2" x 18"	5 1/4" x 16"
		5 1/4" x 7 1/4"	5 1/4" x 7 1/4"	5 1/4" x 9 1/4"	5 1/4" x 9 1/4"	5 1/4" x 9 1/2"	5 1/4" x 11 7/8"	5 1/4" x 14"	7" x 14"
	44'	3 1/2" x 9 1/4"	3 1/2" x 11 1/4"	3 1/2" x 11 1/4"	3 1/2" x 14"	3 1/2" x 14"	3 1/2" x 18"	5 1/4" x 16"	5 1/4" x 18"
		5 1/4" x 7 1/4"	5 1/4" x 7 1/4"	5 1/4" x 9 1/4"	5 1/4" x 9 1/4"	5 1/4" x 11 1/4"	5 1/4" x 14"	7" x 14"	7" x 16"

HOW TO USE THIS TABLE

1. Determine the floor loading and read across that section of the table.
2. Find the house width that meets or exceeds the sum of the spans for the supported floor framing on both sides of the beam.
3. Under COLUMN SPACING, locate the span that meets or exceeds the required beam span.
4. Select the beam size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum beam support to be double trimmers (3" bearing) at ends and 7 1/2" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support beams with four trimmers (6" bearing) at ends and 12" bearing at intermediate supports of continuous spans. Also see General Notes above.



2.0E-3100F_b Header Selection

Headers Supporting Roof – LL (L/240), TL (L/180) (See page 10 for General Notes)

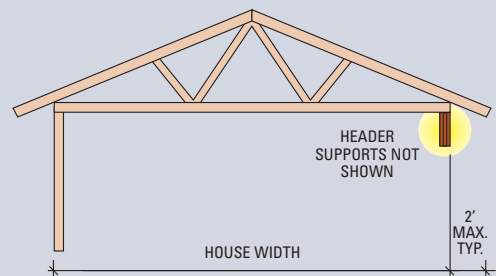
Roof Load (PSF)	House Width	Snow Load (115%)							
		Maximum Rough Opening Size							
		6'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"	18'- 0"
20LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"
						5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"
							5¼" x 9¼"		5¼" x 11¼"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
20LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"
							5¼" x 9¼"		5¼" x 11¼"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	
20LL + 20DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
25LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3.5 x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
30LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
40LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"		5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"	5¼" x 16"

HOW TO USE THIS TABLE

1. Determine the roof loading and read across that section of the table.
2. Find the house width row that meets or exceeds the actual maximum span (outside bearings) of the roof truss or roof framing.
3. Locate the rough opening size column that meets or exceeds the door or window rough opening size.
4. Select the header size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum header support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support headers with triple trimmers (4½" bearing) at ends and 10½" bearing at intermediate supports of continuous spans. Also see General Notes on page 10.



2.0E-3100F_b Beam Selection

Ridge Beams – LL (L/240), TL (L/180) (See page 10 for General Notes)

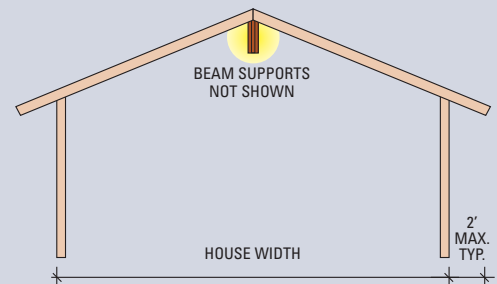
Roof Load (PSF)	House Width	Snow Load (115%)							
		Column Spacing (Maximum Beam Span)							
		10'- 0"	12'- 0"	14'- 0"	16'- 0"	18'- 0"	20'- 0"	22'- 0"	24'- 0"
20LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
					5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"		5¼" x 14"	5¼" x 16"
20LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"		5¼" x 14"	5¼" x 16"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"
				5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"
20LL + 20DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"
				5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	5¼" x 16"
25LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"
				5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	5¼" x 16"
30LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"		5¼" x 14"	5¼" x 16"
	30'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 18"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"	5¼" x 18"
40LL + 15DL	24'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 18"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	5¼" x 16"
	30'	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"	5¼" x 18"
	36'	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 18"	5¼" x 18"
			5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	7" x 16"	7" x 16"

HOW TO USE THIS TABLE

1. Determine the roof loading and read across that section of the table.
2. Find the house width that meets or exceeds the sum of the spans for the supported roof framing on both sides of the beam.
3. Under COLUMN SPACING, locate the span that meets or exceeds the required beam span.
4. Select the beam size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum beam support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support beams with triple trimmers (4½" bearing) at ends and 10½" bearing at intermediate supports of continuous spans. Also see General Notes on page 10.



2.0E-3100F_b Header Selection

Headers Supporting Roof and Floor (Center Bearing) – LL (L/360), TL (L/240) (See page 10 for General Notes)

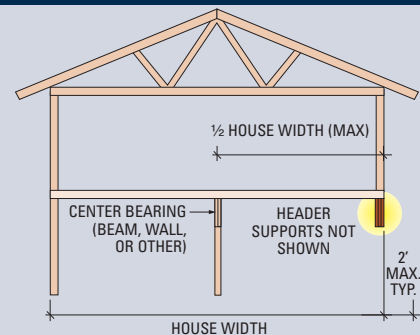
Load (psf)	House Width	Maximum Rough Opening Size							
		6'- 0"	7'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"
Roof Load 20LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"		5¼" x 9½"	5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
Floor Load 40LL + 10DL	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"
Roof Load 20LL + 15DL	30'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
Floor Load 40LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
Roof Load 25LL + 15DL	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
Floor Load 40LL + 10DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11⅞"	5¼" x 14"	7" x 14"
Roof Load 30LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Floor Load 40LL + 10DL	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11⅞"	5¼" x 14"	7" x 14"
	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Roof Load 40LL + 15DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11⅞"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
			5¼" x 7¼"		5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"

HOW TO USE THIS TABLE

- Determine the floor and roof loading and read across that section of the table.
- Find the house width that meets or exceeds the actual maximum span (outside bearings) of the roof truss or roof framing.
- Locate the rough opening size column that meets or exceeds the door or window rough opening size.
- Select the header size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum header support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support headers with three trimmers (4½" bearing) at ends and 12" bearing at intermediate supports of continuous spans. Also see General Notes on page 10.



2.0E-3100F_b Header Selection

Headers Supporting Roof and Floor (No Center Bearing) – LL (L/360), TL (L/240) (See page 10 for General Notes)

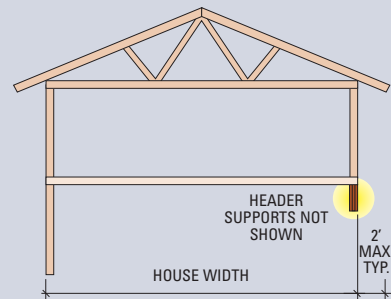
Load (psf)	House Width	Maximum Rough Opening Size							
		6'- 0"	7'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"
Roof Load 20LL + 10DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Floor Load 40LL + 10DL	36'	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 18"	5¼" x 16"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"		5¼" x 14"	
	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
Roof Load 20LL + 15DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 16"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	
Roof Load 20LL + 20DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	7" x 14"
Floor Load 40LL + 10DL	36'	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
		5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"
	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Roof Load 25LL + 15DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	
	36'	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
		5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"
Roof Load 30LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	30'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 18"	5¼" x 16"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"		5¼" x 14"	
Floor Load 40LL + 10DL	36'	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 18"	5¼" x 16"	5¼" x 18"
		5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"
	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Roof Load 40LL + 15DL	30'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"
	36'	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	5¼" x 14"	5¼" x 16"	5¼" x 18"
		5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	7" x 16"

HOW TO USE THIS TABLE

1. Determine the floor and roof loading and read across that section of the table.
2. Find the house width that meets or exceeds the actual maximum span (outside bearings) of the roof truss or roof framing.
3. Locate the rough opening size column that meets or exceeds the door or window rough opening size.
4. Select the header size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum header support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support headers with four trimmers (6" bearing) at ends and 12" bearing at intermediate supports of continuous spans. Also see General Notes on page 10.





LVL User's Guide

1.9E-2750F_b LVL



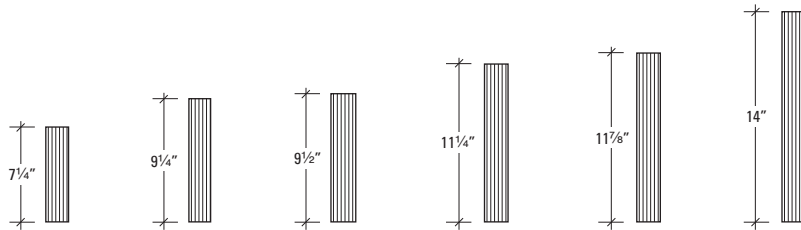
Design Properties

1¾" Broadspan® 1.9E-2750F_b LVL Allowable Design Values

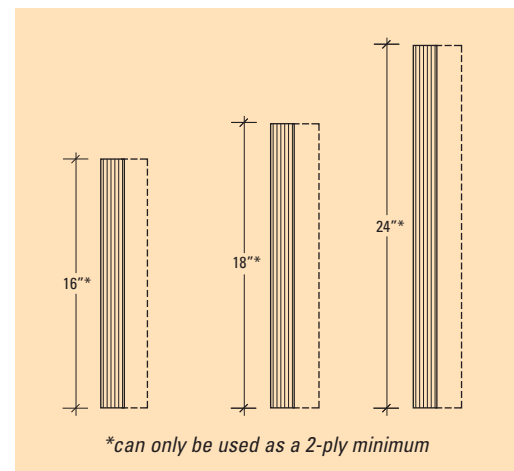
Design Property	Depth								
	7¼"	9¼"	9½"	11¼"	11⅞"	14"	16" ⁽⁶⁾	18" ⁽⁶⁾	24" ⁽⁶⁾
Moment (ft.-lbs.)	3796	5953	6253	8544	9441	12794	16370	20347	34606
Shear (lbs.)	2453	3130	3214	3806	4018	4737	5413	6090	8120
Moment of Inertia (in⁴)	56	115	125	208	244	400	597	851	2016
Weight (lbs./lin. ft.)	3.4	4.4	4.5	5.3	5.6	6.6	7.6	8.5	11.4

- For multiple plies, multiply table values by the number of plies.
- Lateral support of LVL compression edge is required at intervals of 24" o.c. or closer.
- Lateral restraint of LVL is required at bearing locations.
- Values are based on 100% load duration.
- Weight shown is for design. Shipping weights are heavier.
- All plies deeper than 14" require multiple plies, or must be full-depth blocked or full-depth restrained at intervals not exceeding 24" o.c.

1¾" Broadspan 1.9E-2750F_b LVL Available Sizes



Referenced dimensions are nominal and are used for design purposes.



Broadspan 1.9E-2750F_b LVL Allowable Design Stresses

Modulus of Elasticity	$E = 1.9 \times 10^6$ psi
Bending Stress	$F_b = 2750$ psi
Shear (joist)	$F_v = 290$ psi
Compression Perpendicular to Grain (joist)	$F_{c\perp} = 750$ psi
Compression Parallel to Grain	$F_{c\parallel} = 2500$ psi

NOTES

- F_b based on 12" depths. For other depths, multiply by $(12/d)^{1/6.5}$. For depths less than 3½", use $d=3½"$.
- Design stresses are based on 100% load duration.
- $F_{c\perp}$ and E shall not be increased for duration of load.

General Notes for Allowable Uniform Load Tables

General notes apply to tables on pages 18-20.

1. Tables are for one-ply 1 3/4" thick LVL. For multiple plies, multiply table values by the number of plies. A single 3 1/2" thick ply can be substituted for any two 1 3/4" thick plies. Minimum bearing lengths shown for one-ply 1 3/4" will be the same for multiple plies. See pages 27-28 for multiple-ply connection 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 weight.
3. Tables are based on uniform loads and the most restrictive of simple or continuous spans (measured center-to-center of bearings) under dry-use conditions (moisture content less than 16%). Refer to Broadspan sizing software for other loads or span conditions.
4. Lateral support of beam compression edge(s) is required at intervals not exceeding 24" o.c. and at bearing locations.
5. Broadspan LVL beams are made without camber; therefore, in addition to complying with the deflection limits of the applicable building code, other deflection considerations, such as long term deflection under sustained loads must be evaluated.
6. 1 3/4" thick LVL deeper than 14" must only be used in multiple-ply members.
7. To size a member for a span not shown, use capacities for the next larger span shown.
8. For multiple span LVL, end spans must be at least 40% of the adjacent span.
9. Bearing lengths are based on 750 psi bearing stress. Bearing stresses cannot be increased for duration of load. **Bearing length may need to be increased if support member's allowable bearing stress is less.**

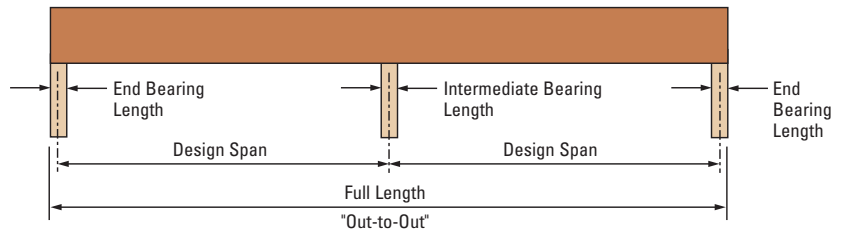
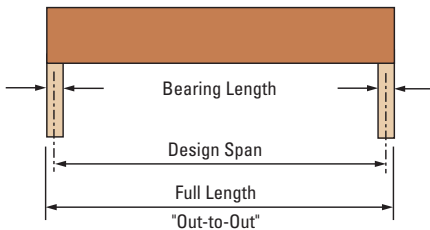
FLOOR BEAM SIZING:

- To size a beam for use in a floor, it is necessary to check both live load and total load. Make sure the selected beam capacity meets or exceeds the applied loads (both live and total). When no live load is shown, total load will control. Spans shown are measured center-to-center of bearing.
- Check local code for other deflection criteria.
- For deflection limits of L/480 multiply loads shown in live load row by 0.75. The allowable load remains the same. Verify beam capacity meets or exceeds.

ROOF BEAM SIZING:

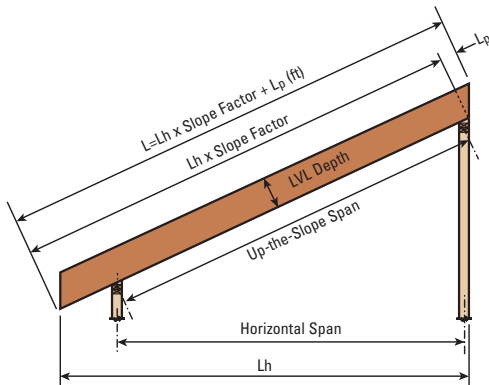
- To size a beam for use in a roof, it is necessary to check both live load and total load. When no live load is shown, total load will control. Spans shown are measured center-to-center of bearing.
- Check local code for other deflection criteria.
- Roof must have positive slope to prevent ponding.
- Tables will accommodate beam slopes to a maximum of 2:12. For greater slopes, use the up-the-slope span (see diagram below) instead of horizontal span.

Span Details



Up-the-Slope Spans and Cutting Lengths for Sloped Roofs

Use for tables on pages 19 and 20 when slope exceeds 2:12



Slope	Slope in 12	Slope Factor	Framing Member Depth (in.)					
			9.5	11.875	14	16	18	24
Amount to Increase Length for Plumb Cut, L _p (feet)								
2 1/2 in 12	2.5	1.021	0.165	0.206	0.243	0.278	0.313	0.417
3 in 12	3	1.031	0.198	0.247	0.292	0.333	0.375	0.500
3 1/2 in 12	3.5	1.042	0.231	0.289	0.340	0.389	0.438	0.583
4 in 12	4	1.054	0.264	0.330	0.389	0.444	0.500	0.667
4 1/2 in 12	4.5	1.068	0.297	0.371	0.438	0.500	0.563	0.750
5 in 12	5	1.083	0.330	0.412	0.486	0.556	0.625	0.833
6 in 12	6	1.118	0.396	0.495	0.583	0.667	0.750	1.000
7 in 12	7	1.158	0.462	0.577	0.681	0.778	0.875	1.167
8 in 12	8	1.202	0.528	0.660	0.778	0.889	1.000	1.333
9 in 12	9	1.250	0.594	0.742	0.875	1.000	1.125	1.500
10 in 12	10	1.302	0.660	0.825	0.972	1.111	1.250	1.667
11 in 12	11	1.357	0.726	0.907	1.069	1.222	1.375	1.833
12 in 12	12	1.414	0.792	0.990	1.167	1.333	1.500	2.000

When using the allowable uniform load tables for roof LVL with slopes greater than 2" per foot, use the up-the-slope span for the tables on pages 19-20.

EXAMPLE:

10/12 slope and 18'-0" horizontal design span, with 2'-0" overhang (horizontal) one end, 2x4 walls.
 Up-the-slope span: 18' x 1.302 = 23.44' - use 24' member span column to check load capacity in tables.
 Overall length: L_h = 2' - 3"/12 (minimum required bearing both ends) + 3.5"/12 + 18' + 3.5"/12 = 20.333'
 If a 14" LVL will be used, L_p = 0.972'
 L = (20.333' x 1.302) + 0.972' = 27.446' = 27'-5 3/8"

1.9E–2750F_b Allowable Uniform Loads (PLF) – 100%

Floor – LL (L/360), TL (L/240) (See page 17 for General Notes)

Span (ft)	Condition	1¾" WIDTH								
		7¼"	9¼"	9½"	11¼"	11⅞"	14"	16"*	18"*	24"*
6	LL	724								
	TL	776	1046	1082	1348	1450	1827	2232	2698	4629
	BRG	1.8 / 4.4	2.4 / 6.0	2.5 / 6.2	3.1 / 7.7	3.3 / 8.3	4.2 / 10.4	5.1 / 12.8	6.2 / 15.4	10.6 / 26.4
7	LL	456								
	TL	616	864	892	1102	1181	1470	1772	2110	3408
	BRG	1.6 / 4.1	2.3 / 5.8	2.4 / 5.9	2.9 / 7.3	3.1 / 7.9	3.9 / 9.8	4.7 / 11.8	5.6 / 14.1	9.1 / 22.7
8	LL	306	635	687						
	TL	455	736	759	932	996	1229	1469	1731	2695
	BRG	1.5 / 3.5	2.2 / 5.6	2.3 / 5.8	2.8 / 7.1	3.0 / 7.6	3.7 / 9.4	4.5 / 11.2	5.3 / 13.2	8.2 / 20.5
9	LL	215	446	483	802					
	TL	318	584	613	807	861	1056	1254	1468	2229
	BRG	1.5 / 3.5	2.0 / 5.0	2.1 / 5.3	2.8 / 6.9	3.0 / 7.4	3.6 / 9.0	4.3 / 10.7	5.0 / 12.6	7.6 / 19.1
10	LL	156	325	352	584	687				
	TL	231	472	496	678	750	925	1093	1274	1899
	BRG	1.5 / 3.5	1.8 / 4.5	1.9 / 4.7	2.6 / 6.5	2.9 / 7.1	3.5 / 8.8	4.2 / 10.4	4.9 / 12.1	7.2 / 18.1
11	LL	118	244	264	439	516				
	TL	173	362	392	560	619	823	969	1124	1654
	BRG	1.5 / 3.5	1.5 / 3.8	1.6 / 4.1	2.3 / 5.9	2.6 / 6.5	3.4 / 8.6	4.1 / 10.2	4.7 / 11.8	6.9 / 17.3
12	LL	91	188	204	338	398	652			
	TL	132	278	301	469	519	704	870	1006	1465
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.1 / 5.4	2.4 / 5.9	3.2 / 8.0	4.0 / 9.9	4.6 / 11.5	6.7 / 16.7
13	LL	71	148	160	266	313	513	765		
	TL	103	217	236	394	441	599	767	911	1314
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.9	2.2 / 5.5	3.0 / 7.4	3.8 / 9.5	4.5 / 11.3	6.5 / 16.3
14	LL	57	118	128	213	251	410	613		
	TL	82	173	188	314	370	516	661	822	1192
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.7 / 4.2	2.0 / 4.9	2.7 / 6.9	3.5 / 8.8	4.4 / 11.0	6.4 / 15.9
15	LL		96	104	173	204	334	498	709	
	TL		140	152	254	300	448	574	715	1090
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.6	1.7 / 4.3	2.6 / 6.4	3.3 / 8.2	4.1 / 10.2	6.2 / 15.6
16	LL		79	86	143	168	275	410	584	
	TL		115	124	209	246	393	504	627	1004
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.8	2.4 / 6.0	3.1 / 7.7	3.8 / 9.6	6.1 / 15.3
17	LL		66	72	119	140	229	342	487	
	TL		95	103	173	204	337	446	555	930
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.2 / 5.5	2.9 / 7.2	3.6 / 9.0	6.0 / 15.1
18	LL		56	60	100	118	193	288	410	
	TL		79	86	145	171	283	397	494	843
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.9	2.7 / 6.8	3.4 / 8.5	5.8 / 14.5
19	LL			51	85	100	164	245	349	
	TL			72	122	145	240	355	442	756
	BRG			1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.7 / 4.3	2.6 / 6.4	3.2 / 8.0	5.5 / 13.7
20	LL				73	86	141	210	299	
	TL				104	123	205	308	398	681
	BRG				1.5 / 3.5	1.5 / 3.5	1.6 / 3.9	2.3 / 5.9	3.0 / 7.6	5.2 / 13.0
21	LL				63	74	122	182	259	613
	TL				89	106	176	265	361	616
	BRG				1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.1 / 5.3	2.9 / 7.2	4.9 / 12.3
22	LL				55	65	106	158	225	533
	TL				77	91	152	229	328	561
	BRG				1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.9 / 4.8	2.7 / 6.9	4.7 / 11.7
23	LL					56	93	138	197	466
	TL					79	132	200	287	512
	BRG					1.5 / 3.5	1.5 / 3.5	1.7 / 4.4	2.5 / 6.3	4.5 / 11.2
24	LL						81	122	173	410
	TL						116	175	251	469
	BRG						1.5 / 3.5	1.6 / 4.0	2.3 / 5.7	4.3 / 10.7
25	LL						72	108	153	363
	TL						101	154	221	432
	BRG						1.5 / 3.5	1.5 / 3.7	2.1 / 5.3	4.1 / 10.3
26	LL						64	96	136	323
	TL						89	136	196	398
	BRG						1.5 / 3.5	1.5 / 3.5	1.9 / 4.8	3.9 / 9.9
28	LL						51	77	109	259
	TL						70	107	155	342
	BRG						1.5 / 3.5	1.5 / 3.5	1.7 / 4.1	3.6 / 9.1
30	LL							62	89	210
	TL							86	124	296
	BRG							1.5 / 3.5	1.5 / 3.6	3.4 / 8.5
32	LL							51	73	173
	TL							69	101	248
	BRG							1.5 / 3.5	1.5 / 3.5	3.0 / 7.6

BRG = Minimum End / Intermediate Bearing Length (inches)

* 1¾" thick LVL deeper than 14" must only be used in multiple-ply members.

1.9E–2750F_b Allowable Uniform Loads (PLF) – 115%

Roof Snow – LL (L/240), TL (L/180) (See page 17 for General Notes)

Span (ft)	Condition	1¾" WIDTH									
		7¼"	9¼"	9½"	11¼"	11⅞"	14"	16"*	18"*	24"*	
6	LL										
	TL	893	1204	1245	1551	1668	2102	2568	3104	5325	
	BRG	2.0 / 5.1	2.8 / 6.9	2.8 / 7.1	3.5 / 8.9	3.8 / 9.5	4.8 / 12.0	5.9 / 14.7	7.1 / 17.7	12.2 / 30.4	
7	LL	684									
	TL	709	994	1027	1268	1359	1691	2039	2427	3920	
	BRG	1.9 / 4.7	2.7 / 6.6	2.7 / 6.8	3.4 / 8.5	3.6 / 9.1	4.5 / 11.3	5.4 / 13.6	6.5 / 16.2	10.5 / 26.1	
8	LL	458									
	TL	542	847	874	1072	1146	1414	1690	1992	3101	
	BRG	1.7 / 4.1	2.6 / 6.5	2.7 / 6.7	3.3 / 8.2	3.5 / 8.7	4.3 / 10.8	5.2 / 12.9	6.1 / 15.2	9.5 / 23.6	
9	LL	322	668								
	TL	426	672	706	928	991	1215	1443	1689	2565	
	BRG	1.5 / 3.6	2.3 / 5.8	2.4 / 6.0	3.2 / 8.0	3.4 / 8.5	4.2 / 10.4	4.9 / 12.4	5.8 / 14.5	8.8 / 22.0	
10	LL	235	487	528							
	TL	309	543	571	781	863	1065	1259	1466	2186	
	BRG	1.5 / 3.5	2.1 / 5.2	2.2 / 5.4	3.0 / 7.4	3.3 / 8.2	4.1 / 10.1	4.8 / 12.0	5.6 / 14.0	8.3 / 20.8	
11	LL	176	366	397							
	TL	232	448	471	644	712	948	1116	1294	1904	
	BRG	1.5 / 3.5	1.9 / 4.7	2.0 / 4.9	2.7 / 6.7	3.0 / 7.5	4.0 / 9.9	4.7 / 11.7	5.4 / 13.6	8.0 / 19.9	
12	LL	136	282	306	507	597					
	TL	178	372	395	541	598	811	1002	1159	1686	
	BRG	1.5 / 3.5	1.7 / 4.2	1.8 / 4.5	2.5 / 6.2	2.7 / 6.8	3.7 / 9.3	4.6 / 11.5	5.3 / 13.2	7.7 / 19.3	
13	LL	107	222	240	399	469					
	TL	139	291	316	460	508	690	884	1049	1513	
	BRG	1.5 / 3.5	1.5 / 3.6	1.6 / 3.9	2.3 / 5.7	2.5 / 6.3	3.4 / 8.5	4.4 / 10.9	5.2 / 13.0	7.5 / 18.7	
14	LL	86	178	192	320	376					
	TL	111	232	252	396	438	594	761	947	1372	
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.1 / 5.3	2.3 / 5.8	3.2 / 7.9	4.1 / 10.1	5.0 / 12.6	7.3 / 18.3	
15	LL		144	156	260	306	501				
	TL		188	204	341	380	516	662	823	1255	
	BRG		1.5 / 3.5	1.5 / 3.5	1.9 / 4.9	2.2 / 5.4	3.0 / 7.4	3.8 / 9.5	4.7 / 11.8	7.2 / 17.9	
16	LL		119	129	214	252	412				
	TL		154	167	280	330	453	581	723	1156	
	BRG		1.5 / 3.5	1.5 / 3.5	1.7 / 4.3	2.0 / 5.0	2.8 / 6.9	3.5 / 8.8	4.4 / 11.0	7.0 / 17.6	
17	LL		99	107	178	210	344	513			
	TL		128	139	233	274	401	514	639	1071	
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.8	1.8 / 4.4	2.6 / 6.5	3.3 / 8.3	4.1 / 10.3	6.9 / 17.3	
18	LL		84	91	150	177	290	432			
	TL		107	116	195	230	357	457	569	971	
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.6 / 3.9	2.4 / 6.1	3.1 / 7.8	3.9 / 9.8	6.7 / 16.7	
19	LL			77	128	150	246	368			
	TL			98	165	195	319	410	510	871	
	BRG			1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.3 / 5.8	3.0 / 7.4	3.7 / 9.2	6.3 / 15.8	
20	LL				110	129	211	315	449		
	TL				141	166	275	369	459	785	
	BRG				1.5 / 3.5	1.5 / 3.5	2.1 / 5.2	2.8 / 7.0	3.5 / 8.8	6.0 / 14.9	
21	LL				95	111	182	272	388		
	TL				121	143	237	334	416	711	
	BRG				1.5 / 3.5	1.5 / 3.5	1.9 / 4.7	2.7 / 6.7	3.3 / 8.3	5.7 / 14.2	
22	LL				82	97	159	237	337		
	TL				104	123	205	304	378	646	
	BRG				1.5 / 3.5	1.5 / 3.5	1.7 / 4.3	2.5 / 6.4	3.2 / 7.9	5.4 / 13.5	
23	LL					85	139	207	295		
	TL					107	179	269	345	590	
	BRG					1.5 / 3.5	1.6 / 3.9	2.4 / 5.9	3.0 / 7.6	5.2 / 12.9	
24	LL					122	182	260			
	TL					156	236	316	541		
	BRG					1.5 / 3.6	2.2 / 5.4	2.9 / 7.2	4.9 / 12.4		
25	LL					108	161	230			
	TL					138	208	291	498		
	BRG					1.5 / 3.5	2.0 / 4.9	2.8 / 6.9	4.7 / 11.9		
26	LL					96	143	204			
	TL					122	184	264	460		
	BRG					1.5 / 3.5	1.8 / 4.5	2.6 / 6.5	4.6 / 11.4		
28	LL					77	115	164	388		
	TL					96	146	210	395		
	BRG					1.5 / 3.5	1.6 / 3.9	2.2 / 5.6	4.2 / 10.5		
30	LL					93	133	204			
	TL					117	169	242	422		
	BRG					1.5 / 3.5	1.9 / 4.8	2.6 / 6.5	4.3 / 10.8		
32	LL					77	110	160	315		
	TL					95	138	200	350		
	BRG					1.5 / 3.5	1.7 / 4.2	2.3 / 5.8	3.7 / 9.1		

BRG = Minimum End / Intermediate Bearing Length (inches)

* 1¾" thick LVL deeper than 14" must only be used in multiple-ply members.

1.9E–2750F_b Allowable Uniform Loads (PLF) – 125%

Roof Non-Snow – LL (L/240), TL (L/180) (See page 17 for General Notes)

Span (ft)	Condition	19 1/4" WIDTH								
		7 1/4"	9 1/4"	9 1/2"	11 1/4"	11 7/8"	14"	16"	18"	24"
6	LL									
	TL	971	1309	1354	1686	1814	2285	2792	3375	5789
	BRG	2.2 / 5.5	3.0 / 7.5	3.1 / 7.7	3.9 / 9.6	4.1 / 10.4	5.2 / 13.1	6.4 / 16.0	7.7 / 19.3	13.2 / 33.1
7	LL	684								
	TL	771	1081	1117	1379	1478	1839	2217	2639	4262
	BRG	2.1 / 5.1	2.9 / 7.2	3.0 / 7.4	3.7 / 9.2	3.9 / 9.9	4.9 / 12.3	5.9 / 14.8	7.0 / 17.6	11.4 / 28.4
8	LL	458								
	TL	590	921	950	1166	1247	1538	1838	2166	3372
	BRG	1.8 / 4.5	2.8 / 7.0	2.9 / 7.2	3.6 / 8.9	3.8 / 9.5	4.7 / 11.7	5.6 / 14.0	6.6 / 16.5	10.3 / 25.7
9	LL	322	668	724						
	TL	426	731	767	1010	1078	1321	1569	1837	2789
	BRG	1.5 / 3.6	2.5 / 6.3	2.6 / 6.6	3.5 / 8.7	3.7 / 9.2	4.5 / 11.3	5.4 / 13.4	6.3 / 15.7	9.6 / 23.9
10	LL	235	487	528						
	TL	309	591	621	849	938	1158	1369	1594	2377
	BRG	1.5 / 3.5	2.3 / 5.6	2.4 / 5.9	3.2 / 8.1	3.6 / 8.9	4.4 / 11.0	5.2 / 13.0	6.1 / 15.2	9.1 / 22.6
11	LL	176	366	397	659					
	TL	232	484	512	701	775	1031	1213	1408	2071
	BRG	1.5 / 3.5	2.0 / 5.1	2.1 / 5.4	2.9 / 7.3	3.2 / 8.1	4.3 / 10.8	5.1 / 12.7	5.9 / 14.7	8.7 / 21.7
12	LL	136	282	306	507	597				
	TL	178	372	403	588	650	882	1090	1260	1834
	BRG	1.5 / 3.5	1.7 / 4.2	1.8 / 4.6	2.7 / 6.7	3.0 / 7.4	4.0 / 10.1	5.0 / 12.5	5.8 / 14.4	8.4 / 21.0
13	LL	107	222	240	399	469				
	TL	139	291	316	500	553	750	961	1141	1646
	BRG	1.5 / 3.5	1.5 / 3.6	1.6 / 3.9	2.5 / 6.2	2.7 / 6.8	3.7 / 9.3	4.8 / 11.9	5.6 / 14.1	8.2 / 20.4
14	LL	86	178	192	320	376	616			
	TL	111	232	252	421	476	646	828	1030	1492
	BRG	1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.2 / 5.6	2.5 / 6.3	3.4 / 8.6	4.4 / 11.0	5.5 / 13.7	8.0 / 19.9
15	LL		144	156	260	306	501			
	TL		188	204	341	402	562	720	896	1365
	BRG		1.5 / 3.5	1.5 / 3.5	1.9 / 4.9	2.3 / 5.7	3.2 / 8.0	4.1 / 10.3	5.1 / 12.8	7.8 / 19.5
16	LL		119	129	214	252	412	616		
	TL		154	167	280	330	493	632	786	1257
	BRG		1.5 / 3.5	1.5 / 3.5	1.7 / 4.3	2.0 / 5.0	3.0 / 7.5	3.9 / 9.6	4.8 / 12.0	7.7 / 19.2
17	LL		99	107	178	210	344	513		
	TL		128	139	233	274	436	559	696	1165
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.8	1.8 / 4.4	2.8 / 7.1	3.6 / 9.0	4.5 / 11.3	7.5 / 18.9
18	LL		84	91	150	177	290	432	616	
	TL		107	116	195	230	380	498	619	1057
	BRG		1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	1.6 / 3.9	2.6 / 6.5	3.4 / 8.5	4.2 / 10.6	7.2 / 18.1
19	LL			77	128	150	246	368	524	
	TL			98	165	195	322	446	555	947
	BRG			1.5 / 3.5	1.5 / 3.5	1.5 / 3.5	2.3 / 5.8	3.2 / 8.1	4.0 / 10.0	6.9 / 17.1
20	LL			110	129	211	315	449		
	TL				141	166	275	402	500	854
	BRG				1.5 / 3.5	1.5 / 3.5	2.1 / 5.2	3.1 / 7.7	3.8 / 9.5	6.5 / 16.3
21	LL			95	111	182	272	388		
	TL				121	143	237	356	453	773
	BRG				1.5 / 3.5	1.5 / 3.5	1.9 / 4.7	2.8 / 7.1	3.6 / 9.1	6.2 / 15.5
22	LL			82	97	159	237	337		
	TL				104	123	205	308	412	704
	BRG				1.5 / 3.5	1.5 / 3.5	1.7 / 4.3	2.6 / 6.5	3.5 / 8.6	5.9 / 14.7
23	LL				85	139	207	295		
	TL					107	179	269	376	643
	BRG					1.5 / 3.5	1.6 / 3.9	2.4 / 5.9	3.3 / 8.2	5.6 / 14.1
24	LL				122	182	260			
	TL					156	236	338	589	
	BRG						1.5 / 3.6	2.2 / 5.4	3.1 / 7.7	5.4 / 13.5
25	LL					108	161	230		
	TL					138	208	298	542	
	BRG						1.5 / 3.5	2.0 / 4.9	2.8 / 7.1	5.2 / 12.9
26	LL					96	143	204	484	
	TL					122	184	264	501	
	BRG						1.5 / 3.5	1.8 / 4.5	2.6 / 6.5	5.0 / 12.4
28	LL					77	115	164	388	
	TL					96	146	210	430	
	BRG						1.5 / 3.5	1.6 / 3.9	2.2 / 5.6	4.6 / 11.5
30	LL						93	133	315	
	TL						117	169	373	
	BRG							1.5 / 3.5	1.9 / 4.8	4.3 / 10.7
32	LL						77	110	260	
	TL						95	138	327	
	BRG							1.5 / 3.5	1.7 / 4.2	4.0 / 10.0

BRG = Minimum End / Intermediate Bearing Length (inches)

* 1 3/4" thick LVL deeper than 14" must only be used in multiple-ply members.

1.9E-2750F_b Beam Selection

GENERAL NOTES

General notes apply to tables on pages 21-25.

1. Values shown are applicable to Broadspan® LVL used in covered, dry use condition only (moisture content less than 16%).
2. Lateral support of LVL compression edge is required at intervals not exceeding 24" o.c. and at bearing locations.
3. Broadspan LVL beams are made without camber; therefore, in addition to complying with the deflection limits of the applicable building code, other deflection considerations, such as long term deflection under sustained loads must be evaluated.
4. Roof surface must slope a minimum of ¼" in 12 or as required for drainage.
5. Tables are based on uniform loads and the most restrictive of simple

or continuous spans (measured center-to-center of bearing), all spans being equal in length.

6. Tables include most restrictive case of roof truss or roof framing with 0' to 2' maximum overhang.
7. Roof beam deflection criteria are L/240 live load and L/180 total load.
8. Floor beam deflection criteria are L/360 live load and L/240 total load.
9. Headers supporting floor and roof include an 80 plf wall load.
10. Roof live and dead loads shown are applied vertically to the horizontal projection of the roof.
11. Some sizes may not be available in your region. Contact your local Broadspan dealer for availability.

Floor Beams – One Story – LL (L/360), TL (L/240)

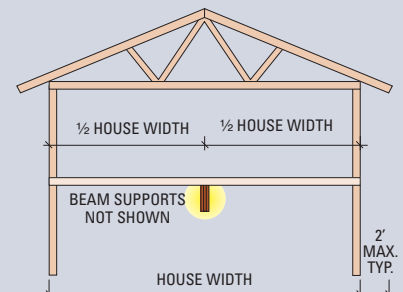
Floor Load (PSF)	House Width	Column Spacing (Maximum Beam Span)							
		6'- 0"	7'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"
40LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"
					5¼" x 7¼"		5¼" x 9½"	5¼" x 11¼"	5¼" x 14"
	28'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11⅞"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
	32'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"		5¼" x 14"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
				5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	40'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	44'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 18"	3½" x 24"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"
40LL + 25DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11⅞"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
	28'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
	32'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 24"
			5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 16"	3½" x 18"	3½" x 24"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"
	40'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 18"
		5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	7" x 16"
	44'	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 18"	5¼" x 16"	5¼" x 18"
		5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"

HOW TO USE THIS TABLE

1. Determine the floor loading and read across that section of the table.
2. Find the house width that meets or exceeds the sum of the spans for the supported floor framing on both sides of the beam.
3. Under COLUMN SPACING, locate the span that meets or exceeds the required beam span.
4. Select the beam size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum beam support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support beams with three trimmers (4½" bearing) at ends and 10½" bearing at intermediate supports of continuous spans. Also see General Notes above.



1.9E-2750F_b Header Selection

Headers Supporting Roof – LL (L/240), TL (L/180) (See page 21 for General Notes)

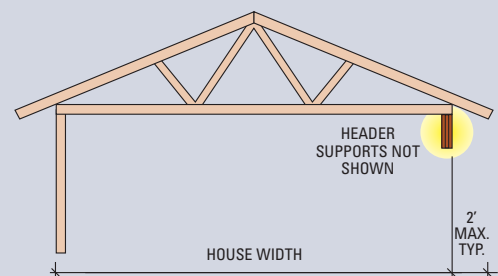
Roof Load (PSF)	House Width	Snow Load (115%)							
		Maximum Rough Opening Size							
		6'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"	18'- 0"
20LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"
						5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
							5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
20LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"
							5¼" x 9¼"		5¼" x 11¼"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"
20LL + 20DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"
					5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
25LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"
					5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"
					5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
30LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"
					5¼" x 7¼"		5¼" x 9½"	5¼" x 11¼"	
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
40LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	5¼" x 16"

HOW TO USE THIS TABLE

1. Determine the roof loading and read across that section of the table.
2. Find the house width row that meets or exceeds the actual maximum span (outside bearings) of the roof truss or roof framing.
3. Locate the rough opening size column that meets or exceeds the door or window rough opening size.
4. Select the header size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum header support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support headers with triple trimmers (4½" bearing) at ends and 10½" bearing at intermediate supports of continuous spans. Also see General Notes on page 21.



1.9E-2750F_b Beam Selection

Ridge Beams – LL (L/240), TL (L/180) (See page 21 for General Notes)

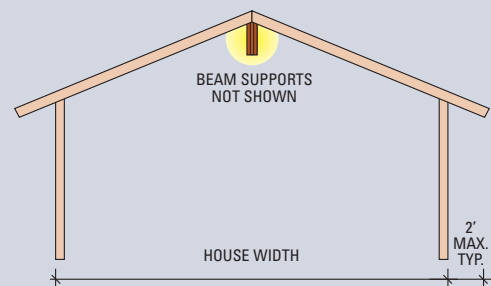
Roof Load (PSF)	House Width	Snow Load (115%)							
		Column Spacing (Maximum Beam Span)							
		10'- 0"	12'- 0"	14'- 0"	16'- 0"	18'- 0"	20'- 0"	22'- 0"	24'- 0"
20LL + 10DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"		5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
				5¼" x 9¼"		5¼" x 11¼"		5¼" x 14"	5¼" x 16"
20LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 9¼"		5¼" x 11¼"		5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 18"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"	5¼" x 16"
20LL + 20DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"
				5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"		5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"	5¼" x 18"
25LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"
				5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"		5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"	5¼" x 18"
30LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"
				5¼" x 9¼"		5¼" x 11¼"		5¼" x 14"	5¼" x 16"
	30'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"	3½" x 24"
		5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"	5¼" x 18"
40LL + 15DL	24'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"
		5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11⅞"	5¼" x 14"	5¼" x 16"	5¼" x 16"
	30'	3½" x 9¼"	3½" x 11¼"	3½" x 11⅞"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"	3½" x 24"
		5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	5¼" x 16"	5¼" x 18"
	36'	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	3½" x 24"	5¼" x 18"	5¼" x 24"
			5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	5¼" x 16"	7" x 16"	7" x 18"

HOW TO USE THIS TABLE

- Determine the roof loading and read across that section of the table.
- Find the house width that meets or exceeds the sum of the spans for the supported roof framing on both sides of the beam.
- Under COLUMN SPACING, locate the span that meets or exceeds the required beam span.
- Select the beam size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum beam support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support beams with triple trimmers (4½" bearing) at ends and 9" bearing at intermediate supports of continuous spans. Also see General Notes on page 21.



1.9E-2750F_b Header Selection

Headers Supporting Roof and Floor (Center Bearing) – LL (L/360), TL (L/240) (See page 21 for General Notes)

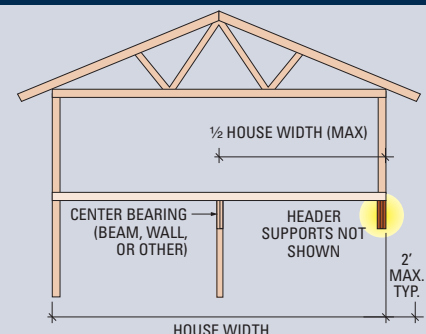
Load (psf)	House Width	Maximum Rough Opening Size							
		6'- 0"	7'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"
Roof Load 20LL + 10DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"		5¼" x 11¼"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
Floor Load 40LL + 10DL	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
Roof Load 20LL + 15DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
			5¼" x 7¼"	5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
Roof Load 20LL + 20DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
Floor Load 40LL + 10DL	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 24"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"
Roof Load 25LL + 15DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"
	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 24"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11¾"	5¼" x 14"	5¼" x 16"
Roof Load 30LL + 15DL	24'	3½" x 7¼"	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"
				5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"		5¼" x 14"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Floor Load 40LL + 10DL	36'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 18"	5¼" x 16"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	7" x 14"
	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"
Roof Load 40LL + 15DL	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 18"	3½" x 24"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
			5¼" x 7¼"		5¼" x 9¼"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"

HOW TO USE THIS TABLE

- Determine the floor and roof loading and read across that section of the table.
- Find the house width that meets or exceeds the actual maximum span (outside bearings) of the roof truss or roof framing.
- Locate the rough opening size column that meets or exceeds the door or window rough opening size.
- Select the header size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum header support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support headers with three trimmers (4½" bearing) at ends and 10½" bearing at intermediate supports of continuous spans. Also see General Notes on page 21.



1.9E-2750F_b Header Selection

Headers Supporting Roof and Floor (No Center Bearing) – LL (L/360), TL (L/240) (See page 21 for General Notes)

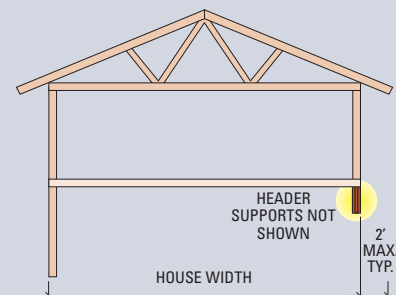
Load (psf)	House Width	Maximum Rough Opening Size							
		6'- 0"	7'- 0"	8'- 0"	9'- 0"	10'- 0"	12'- 0"	14'- 0"	16'- 0"
Roof Load 20LL + 10DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 24"
Floor Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 18"
Roof Load 20LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 18"	3½" x 24"
Floor Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	5¼" x 16"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 18"
Roof Load 20LL + 20DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 16"
Floor Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	7" x 14"
	36'	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
Roof Load 25LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
	30'	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 16"
Floor Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 14"	
	36'	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
Roof Load 30LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"
	30'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 16"	3½" x 18"	5¼" x 18"
Floor Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 14"	5¼" x 16"	7" x 16"
	36'	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 18"	5¼" x 16"	5¼" x 18"
Roof Load 40LL + 15DL	24'	3½" x 7¼"	3½" x 9¼"	3½" x 9½"	3½" x 11¼"	3½" x 11¾"	3½" x 16"	3½" x 18"	3½" x 24"
	30'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¾"	3½" x 14"	3½" x 16"	5¼" x 16"	5¼" x 18"
Floor Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 7¼"	5¼" x 9¼"	5¼" x 11¼"	5¼" x 11¼"	5¼" x 14"	7" x 14"	7" x 16"
	36'	3½" x 9¼"	3½" x 11¼"	3½" x 14"	3½" x 14"	3½" x 16"	5¼" x 14"	5¼" x 18"	5¼" x 24"
Roof Load 40LL + 10DL	24'	5¼" x 7¼"	5¼" x 9¼"	5¼" x 9½"	5¼" x 11¼"	5¼" x 11¾"	5¼" x 14"	7" x 16"	7" x 18"
	36'	3½" x 9¼"	3½" x 9¼"	3½" x 11¼"	3½" x 11¼"	3½" x 14"	5¼" x 14"	5¼" x 18"	5¼" x 24"

HOW TO USE THIS TABLE

1. Determine the floor and roof loading and read across that section of the table.
2. Find the house width that meets or exceeds the actual maximum span (outside bearings) of the roof truss or roof framing.
3. Locate the rough opening size column that meets or exceeds the door or window rough opening size.
4. Select the header size shown in the appropriate cell of the table. Minimum required sizes are shown.

Bearing Requirements

Minimum header support to be double trimmers (3" bearing) at ends and 7½" bearing at intermediate supports of continuous spans. In dark brown shaded areas in the table above, support headers with three trimmers (4½" bearing) at ends and 12" bearing at intermediate supports of continuous spans. Also see General Notes on page 21.





LVL User's Guide

Fastening, Applications, Bearings, Hangers and Details



Fastening Requirements

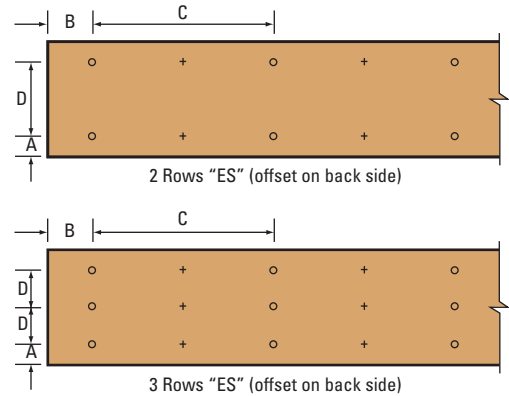
GENERAL NOTES

1. Confirm the adequacy of the beam (depth and thickness) for carrying the designated load. Use only multiple plies of the same grade.
2. Stress level for nail, bolt and screw values is 100%. Increases of 15% for snow loaded roof conditions or 25% for non-snow roof conditions are permitted.
3. Top and bottom rows of fasteners should be as shown in the fastener clearances detail. For staggered fastening patterns, the maximum end distance applies to all rows.
4. All fasteners must have the length fully embedded, but must not be over-driven, countersunk, or over-tightened. Nails installed in the narrow face of the LVL must be spaced no closer than 3" (8d), 4" (10-12d, 16d sinker) and 8" (16d).
5. Bolt holes are to be $\frac{1}{32}$ " to $\frac{1}{16}$ " diameter larger than the bolts. Bolts must meet or exceed ASTM A 307 or SAE J429 Grade 1 or 2. Every bolt must extend through the full thickness of the member. Use washers not less than a standard cut washer under the head and nut meeting ANSI B18.22.1.
6. 7" thick beams should only be side-loaded when loads are applied to both sides, when the lesser side load plf is at least 25% of the opposite side, or when the beam is otherwise restrained to minimize rotation.
7. For beam depths $< 7\frac{1}{4}$ ", the maximum beam thickness (width) must not exceed the beam depth and all fasteners must be staggered up to one-half the required o.c. spacing. For depths $\geq 7\frac{1}{4}$ ", the maximum beam thickness is 7".
8. Fastening recommendations are based on the 2005 National Design Specification for Wood Construction (NDS) or fastener manufacturer's design information. Structural screws must be installed per manufacturer's recommendations. SDS structural screws are produced by Simpson Strong-Tie Company, Inc., WS structural screws are produced by United Steel Products Company, and TrussLok™ structural screws are produced by FastenMaster-OMG, Inc.

Fastener Clearances for Multiple-Ply Members

Fastener Type	A		B		C		D	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
10d & 16d Nails	2"	2"	6"	4"	12"	3"		
Bolts & Screws	2"	4"	12"	4"	24"	3"		

Spacings closer than those above may be acceptable, but require special consideration. Contact your technical representative.



Minimum Fastening Requirements for Top- and Side-Loaded Members

		3½" Thick	5¼" Thick		7" Thick		
Fastener Type	LVL Depth	2-Ply 1¼"	3-Ply 1¼"	1¼" + 3½"	4-Ply 1¼"	2-Ply 1¼" + 3½"	2-Ply 3½"
10d (0.128" x 3") Nails	7¼" ≤ d < 14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-
	d ≥ 14"	4 rows @ 12" o.c.	4 rows @ 12" o.c. (ES)	4 rows @ 12" o.c.	-	4 rows @ 12" o.c. (ES)	-
16d (0.162" x 3½") Nails	7¼" ≤ d < 14"	2 rows @ 12" o.c.	2 rows @ 12" o.c. (ES)	2 rows @ 12" o.c.	-	2 rows @ 12" o.c. (ES)	-
	d ≥ 14"	3 rows @ 12" o.c.	3 rows @ 12" o.c. (ES)	3 rows @ 12" o.c.	-	3 rows @ 12" o.c. (ES)	-
½" Through Bolts	d ≥ 7¼"	2 rows @ 24" o.c.	2 rows @ 24" o.c.		2 rows @ 24" o.c.		
SDS ¼" x 3½", WS35, 3⅝" TrussLok		2 rows @ 24" o.c.	2 rows @ 24" o.c. (ES)	2 rows @ 24" o.c.	-	2 rows @ 24" o.c. (ES)	-
SDS ¼" x 6", WS6		-	-		2 rows @ 24" o.c. (ES)		
5" TrussLok		-	2 rows @ 24" o.c.		-		
6¾" TrussLok		-	-		2 rows @ 24" o.c.		

NOTES

1. All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity requirements given on page 28.
2. Minimum fastening requirements for depths less than 7¼" require special consideration. Please contact your technical representative.
3. Three general rules for staggering or offsetting for a certain fastener schedule: (1) if staggering or offsetting is not referenced, then none is required; (2) if staggering is referenced, then fasteners installed in adjacent rows on the front side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener clearances above; and (3) if "ES" is referenced, then the fastener schedule must be repeated on **each side**, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).

Top-Loaded

For multiple-ply member fastening, only conditions where the loading is applied evenly across the top of all plies shall be considered "top-loaded." All other conditions must be fastened using the side-loaded recommendations on page 28. All top-loaded multiple-ply LVL members must meet the **minimum fastener requirements** and required fastener spacing shown above.

Fastening Requirements


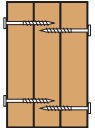
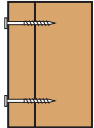
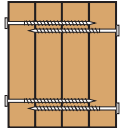
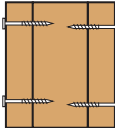
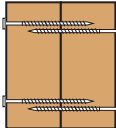
LVL Side-Loaded

For multiple-ply member fastening, conditions where the loading is not applied evenly across the top of all plies shall be considered side-loaded. All side-loaded multiple-ply members must meet the minimum fastener requirements on page 27 and the loading capacity requirements below.

Maximum Uniform Load Applied to Either or Both Outside Plies (PLF)

Refer to General Notes page 27.

- Numbers in the table indicate load in pounds per lineal foot which may be applied to either side, except as shown in note 6 on page 27, based solely on the connection.
- Framing members must be attached with approved metal hangers.
- This table applies to uniform loading only. Concentrated (point) side loads may require additional consideration.

Fastener Schedule			3½" Thick	5¼" Thick			7" Thick		
Fastener Type	Number of Fastener Rows	Fastener On-Center Spacing (in.)							
			2-Ply 1¾"	3-Ply 1¾"	1¾" + 3½"	4-Ply 1¾"	2-Ply 1¾" + 3½"	2-Ply 3½"	
10d (0.128" x 3") Nails	3	12	545	405 (ES)	405	—	360 (ES)	—	
	4	12	725	545 (ES)	545	—	485 (ES)	—	
16d (0.162" x 3½") Nails	2	12	565	425 (ES)	425	—	375 (ES)	—	
	3	12	845	635 (ES)	635	—	563 (ES)	—	
½" Through Bolts	2	24	505	380	525	340	465	860	
		19.2	635	475	655	425	585	1075	
		16	760	570	790	505	700	1290	
SDS ¼" x 3½"	2	24	680	510 (ES)	510	—	455 (ES)	—	
		19.2	850	640 (ES)	640	—	565 (ES)	—	
		16	1020	765 (ES)	765	—	680 (ES)	—	
SDS ¼" x 6"	2	24	—	—	—	555 (ES)	555 (ES)	680 (ES)	
		19.2	—	—	—	695 (ES)	695 (ES)	850 (ES)	
		16	—	—	—	835 (ES)	835 (ES)	1020 (ES)	
USP WS35	2	24	500	375 (ES)	375	—	335 (ES)	—	
		19.2	625	470 (ES)	470	—	415 (ES)	—	
		16	750	565 (ES)	565	—	500 (ES)	—	
USP WS6	2	24	—	—	—	335 (ES)	335 (ES)	500 (ES)	
		19.2	—	—	—	415 (ES)	415 (ES)	625 (ES)	
		16	—	—	—	500 (ES)	500 (ES)	750 (ES)	
3¾" TrussLok	2	24	535	400 (ES)	400	—	355 (ES)	—	
		19.2	670	500 (ES)	500	—	445 (ES)	—	
		16	800	600 (ES)	600	—	535 (ES)	—	
5" TrussLok	2	24	—	435	435	—	385 (ES)	580 (ES)	
		19.2	—	545	545	—	485 (ES)	725 (ES)	
		16	—	655	655	—	580 (ES)	870 (ES)	
6¾" TrussLok	2	24	—	—	—	385	385	580	
		19.2	—	—	—	485	485	725	
		16	—	—	—	580	580	870	

NOTES

1. "ES" indicates fasteners must be installed from **each side** of the beam with the given fastening schedule. Stagger fasteners on opposite side of beam by up to one-half the required fastener on-center spacing.
2. For nails, tabulated values may be multiplied by 2.0 for 6" o.c. spacing and by 3.0 for 4" o.c. spacing. For bolts, tabulated values for 24" o.c. may be multiplied by 2.0 for 12" o.c. spacing. For structural screws, tabulated values for 24" o.c. may be multiplied by 2.0 for 12" o.c. spacing, by 4.0 for 6" o.c. spacing and by 6.0 for 4" o.c. spacing.
3. For 3 rows of fasteners, multiply tabulated values for 2 rows by 1.5. Center and stagger middle row by one-half the required o.c. spacing for depths less than 11¼".
4. Do not use fastener schedule if fastener clearances, required staggering and offsetting, or required fastening cannot be met. Consult technical representative for other options.

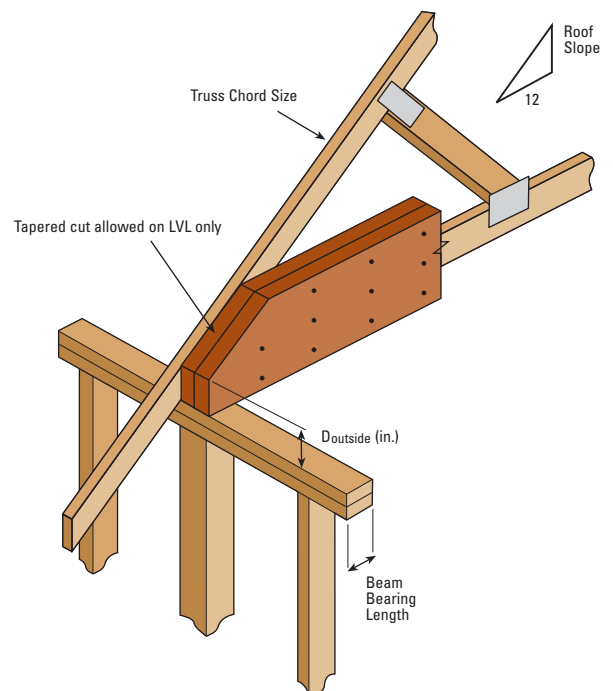
Tapered Cut Allowable End Reaction – Truss Roof

3/2" Thick LVL Beam Allowable End Reaction (lbs)

LVL Depth	Truss Chord Size	Beam Bearing Length	Roof Slope									
			4/12		6/12		8/12		10/12		12/12	
			Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)
7 1/4"	2 X 4	3 1/2"	3 15/16	3395	4 3/16	4419	4 7/16	4790	4 13/16	Max.	5 3/16	Max.
		5 1/4"		3967		4779		Max.		Max.		
	2 X 6	3 1/2"	6 1/16	4821	6 3/8	Max.	6 7/8	Max.	7 1/4	Max.	7 1/4	Max.
		5 1/4"		Max.		Max.		Max.		Max.		
9 1/4" or 9 1/2"	2 X 4	3 1/2"	3 15/16	3395	4 3/16	3932	4 7/16	5238	4 13/16	5910	5 3/16	6128
		5 1/4"		3783		4877		5941		6151		Max.
	2 X 6	3 1/2"	6 1/16	4873	6 3/8	5953	6 7/8	6151	7 7/16	Max.	8	Max.
		5 1/4"		5576		6144		Max.		Max.		
11 1/4" or 11 7/8"	2 X 4	3 1/2"	3 15/16	-	4 3/16	3932	4 7/16	4515	4 13/16	6115	5 3/16	6921
		5 1/4"		-		4514		5972		7109		7440
	2 X 6	3 1/2"	6 1/16	4797	6 3/8	5631	6 7/8	6921	7 7/16	6921	8	6921
		5 1/4"		5185		6699		7405		7481		Max.
14"	2 X 4	3 1/2"	3 15/16	-	4 3/16	-	4 7/16	-	4 13/16	5238	5 3/16	6921
		5 1/4"		-		-		-		7291		8508
	2 X 6	3 1/2"	6 1/16	4797	6 3/8	5419	6 7/8	6803	7 7/16	6921	8	6921
		5 1/4"		5185		6001		8034		8978		9284
16"	2 X 6	3 1/2"	6 1/16	4797	6 3/8	5419	6 7/8	6114	7 7/16	6921	8	6921
		5 1/4"		5185		6001		7577		9437		10269
18"	2 X 6	3 1/2"	6 1/16	4797	6 3/8	5419	6 7/8	6114	7 7/16	6921	8	6921
		5 1/4"		5185		6001		6890		9354		10382
24"	2 X 6	3 1/2"	6 1/16	-	6 3/8	-	6 7/8	-	7 7/16	-	8	6921
		5 1/4"		-		-		-		-		10203

NOTES

- Prior to using this table, beam size must be checked by tables or KeyBeam® software.
- Table can also be used for 1 3/4", 5 1/4" and 7" thick LVL beams
For 1 3/4" thick beam: 0.5 x allowable reaction (lbs)
For 5 1/4" thick beam: 1.5 x allowable reaction (lbs)
For 7" thick beam: 2.0 x allowable reaction (lbs)
- Provide lateral support at bearing points, and continuous lateral support along top (or compression edge) of beam.
- Listed values are for 1.9E and 2.0E LVL beam products.
- Special consideration is required for uplift reactions.
- Concentrated loads, holes, and other notches are not allowed in the tapered cut region.
- Southern Pine bearing plate assumed (565 psi).
- Values are for floor use, 100% duration of load increase.
- If "Max." is shown in Reaction column, full capacity is available.
- If no allowable reaction is shown, beam will not work with current input; try using a shallower beam with additional plies.
- Field verify slope and all dimensions.
- 1/4" butt cut height assumed for truss bottom chord.



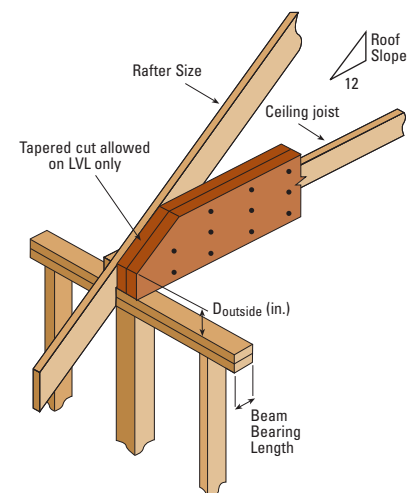
Tapered Cut Allowable End Reaction – Conventional (Stick) Roof

3/2" Thick LVL Beam Allowable End Reaction (lbs)

LVL Depth	Rafter Size	Beam Bearing Length	Roof Slope									
			4/12		6/12		8/12		10/12		12/12	
			Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)	Doutside (inches)	Reaction (lbs)
7 1/4"	2 X 6	3 1/2"	4 5/8	4095	4 3/8	4559	4 1/4	4759	4 1/4	4820	4 1/4	Max.
		5 1/4"	4 1/16	4095	3 1/2	4559	3 3/8	4759	2 13/16	4820	2 1/2	Max.
	2 X 8	3 1/2"	6 1/2	Max.	6 3/8	Max.	6 3/8	Max.	6 1/2	Max.	6 3/4	Max.
		5 1/4"	5 7/8	Max.	5 1/2	Max.	5 3/16	Max.	5 1/16	Max.	5	Max.
9 1/4" or 9 1/2"	2 X 6	3 1/2"	4 5/8	3855	4 3/8	4089	4 1/4	5057	4 1/4	5664	4 1/4	5966
		5 1/4"	4 1/16	3855	3 1/2	4089	3 3/8	-	2 13/16	-	2 1/2	-
	2 X 8	3 1/2"	6 1/2	5416	6 3/8	5936	6 3/8	6118	6 1/2	6151	6 3/4	Max.
		5 1/4"	5 7/8	5416	5 1/2	5936	5 3/16	6118	5 1/16	6151	5	Max.
	2 X 10	3 1/2"	8 9/16	Max.	8 9/16	Max.	8 13/16	Max.	9 1/8	Max.	9 1/4	Max.
		5 1/4"	8	Max.	7 11/16	Max.	7 5/8	Max.	7 11/16	Max.	7 13/16	Max.
11 1/4" or 11 7/8"	2 X 6	3 1/2"	4 5/8	3855	4 3/8	4089	4 1/4	4396	4 1/4	5418	4 1/4	6451
		5 1/4"	4 1/16	3855	3 1/2	-	3 3/8	-	2 13/16	-	2 1/2	-
	2 X 8	3 1/2"	6 1/2	5082	6 3/8	5566	6 3/8	6745	6 1/2	6921	6 3/4	6921
		5 1/4"	5 7/8	5082	5 1/2	5566	5 3/16	6745	5 1/16	7203	5	7417
	2 X 10	3 1/2"	8 9/16	6921	8 9/16	6921	8 13/16	6921	9 1/8	Max.	9 9/16	Max.
		5 1/4"	8	6973	7 11/16	7375	7 5/8	7480	7 11/16	Max.	7 13/16	Max.
	2 X 12	3 1/2"	10 11/16	6921	10 13/16	Max.	11 3/16	Max.	11 1/4	Max.	11 1/4	Max.
		5 1/4"	10 1/8	7481	9 15/16	Max.	10	Max.	10 1/4	Max.	10 11/16	Max.
14"	2 X 8	3 1/2"	6 1/2	5082	6 3/8	5390	6 3/8	6111	6 1/2	6921	6 3/4	6921
		5 1/4"	5 7/8	5082	5 1/2	5390	5 3/16	6111	5 1/16	7550	5	8399
	2 X 10	3 1/2"	8 9/16	6484	8 9/16	6921	8 13/16	6921	9 1/8	6921	9 9/16	6921
		5 1/4"	8	6484	7 11/16	7589	7 5/8	8564	7 11/16	9056	7 13/16	9267
	2 X 12	3 1/2"	10 11/16	6921	10 13/16	6921	11 3/16	6921	11 3/4	Max.	12 7/16	Max.
		5 1/4"	10 1/8	8539	9 15/16	9096	10	9293	10 1/4	Max.	10 11/16	Max.
16"	2 X 8	3 1/2"	6 1/2	5082	6 3/8	5390	6 3/8	5794	6 1/2	6921	6 3/4	6921
		5 1/4"	5 7/8	5082	5 1/2	5390	5 3/16	-	5 1/16	-	5	-
	2 X 10	3 1/2"	8 9/16	6484	8 9/16	6877	8 13/16	6921	9 1/8	6921	9 9/16	6921
		5 1/4"	8	6484	7 11/16	6877	7 5/8	8501	7 11/16	9601	7 13/16	10207
2 X 12	3 1/2"	10 11/16	6921	10 13/16	6921	11 3/16	6921	11 3/4	6921	12 7/16	6921	
	5 1/4"	10 1/8	7886	9 15/16	9402	10	10187	10 1/4	10382	10 11/16	10382	
18"	2 X 8	3 1/2"	6 1/2	5082	6 3/8	5390	6 3/8	5794	6 1/2	6276	6 3/4	6921
		5 1/4"	5 7/8	-	5 1/2	-	5 3/16	-	5 1/16	-	5	-
	2 X 10	3 1/2"	8 9/16	6484	8 9/16	6877	8 13/16	6921	9 1/8	6921	9 9/16	6921
		5 1/4"	8	6484	7 11/16	6877	7 5/8	7719	7 11/16	9616	7 13/16	10382
	2 X 12	3 1/2"	10 11/16	6921	10 13/16	6921	11 3/16	6921	11 3/4	6921	12 7/16	6921
		5 1/4"	10 1/8	7886	9 15/16	8861	10	10382	10 1/4	10382	10 11/16	10382
24"	2 X 10	3 1/2"	8 9/16	6484	8 9/16	6877	8 13/16	6921	9 1/8	6921	9 9/16	6921
		5 1/4"	8	6484	7 11/16	-	7 5/8	-	7 11/16	-	7 13/16	-
	2 X 12	3 1/2"	10 11/16	6921	10 13/16	6921	11 3/16	6921	11 3/4	6921	12 7/16	6921
		5 1/4"	10 1/8	7886	9 15/16	8364	10	8991	10 1/4	10382	10 11/16	10382

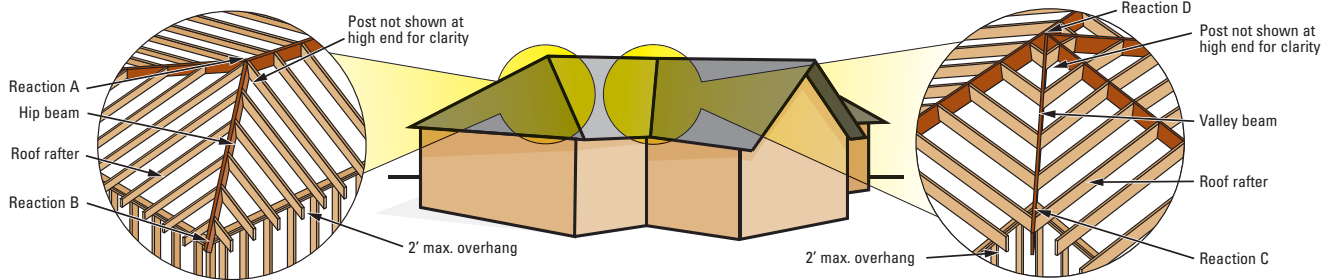
NOTES

- Prior to using this table, beam size must be checked by tables or KeyBeam® software.
- Table can also be used for 1 3/4", 5 1/4" and 7" thick LVL beams
For 1 3/4" thick beam: 0.5 x allowable reaction (lbs)
For 5 1/4" thick beam: 1.5 x allowable reaction (lbs)
For 7" thick beam: 2.0 x allowable reaction (lbs)
- Provide lateral support at bearing points, and continuous lateral support along top (or compression edge) of beam.
- Listed values are for 1.9E and 2.0E LVL beam products.
- Special consideration is required for uplift reactions.
- Concentrated loads, holes, and other notches are not allowed in the tapered cut region.
- Southern Pine bearing plate assumed (565 psi).
- Values are for floor use, 100% duration of load increase.
- If "Max." is shown in Reaction column, full capacity is available.
- If no allowable reaction is shown, beam will not work with current input; try using a shallower beam with additional plies.
- Field verify slope and all dimensions.



LVL Roof Hip and Valley Beams

3½" Thick LVL Beam Allowable End Reaction (lbs)



		Roof Loading - Snow (115%)									
		20 psf LL + 15 psf DL			30 psf LL + 15 psf DL			40 psf LL + 15 psf DL			
		Roof Slope			Roof Slope			Roof Slope			
		up to 4/12	up to 8/12	up to 12/12	up to 4/12	up to 8/12	up to 12/12	up to 4/12	up to 8/12	up to 12/12	
Longest horizontal roof rafter span (L)	12'	No. of 1¼" plies - Beam Depth	1-11¼"	1-11¼"	1-11½"	1-11¼"	1-11½"	1-14"	1-11½"	1-14"	1-14"
		Order length (ft)	22	24	26	22	24	26	22	24	26
		Max. React. A&C (lbs)	1959	2151	2463	2479	2671	3029	2999	3232	3549
			2-9¼"	2-9¼"	2-9¼"	2-9¼"	2-9¼"	3-9¼"	2-9¼"	3-9¼"	3-9¼"
			2-11¼"	2-11¼"	2-11¼"	2-11¼"	2-11¼"	3-11¼"	2-11¼"	2-11½"	2-11¼"
			3-9¼"	3-9¼"	4-9¼"	3-9¼"	4-9¼"	4-9¼"	4-9½"	4-9½"	3-11¼"
			24	26	30	24	26	30	24	26	30
			2649	2909	3387	3343	3651	4060	4082	4350	4755
			1431	1568	1842	1790	1974	2180	2193	2337	2539
			2-11½"	2-14"	2-14"	2-14"	2-14"	2-16"	2-14"	2-16"	2-16"
			3-11¼"	3-11¼"	3-11½"	3-11¼"	3-11½"	3-14"	3-11½"	3-14"	3-14"
			4-9½"	4-11¼"	4-11¼"	4-11¼"	4-11½"	4-11¼"	4-11¼"	4-11¼"	4-11¼"
		28	30	34	28	30	34	28	30	34	
		3513	3833	4469	4401	4812	5398	5375	5724	6274	
		1860	2012	2372	2292	2534	2844	2809	2990	3264	
		2-14"	2-16"	2-16"	2-16"	2-16"	2-18"	2-16"	2-18"	2-18"	
		3-11¼"	3-14"	3-14"	3-14"	3-14"	3-16"	3-14"	3-16"	3-16"	
		4-11¼"	4-11½"	4-11½"	4-11½"	4-11½"	4-14"	4-11½"	4-14"	4-14"	
		30	32	36	30	32	36	30	32	36	
		4416	4869	5543	5574	5975	6788	6683	7211	7874	
		2329	2570	2895	2911	3100	3565	3444	3760	4075	
		2-16"	2-18"	2-24"	2-18"	2-18"	2-24"	2-24"	2-24"	2-24"	
		3-14"	3-16"	3-16"	3-16"	3-16"	3-18"	3-16"	3-18"	3-18"	
		4-14"	4-14"	4-14"	4-14"	4-16"	4-16"	4-16"	4-16"	4-16"	
		34	36	40	34	36	40	34	36	40	
		5284	5911	6717	6759	7234	8227	8085	8732	9521	
		2788	3162	3551	3575	3796	4373	4213	4606	4979	
		2-24"	2-24"	2-24"	2-24"	2-24"	2-24"	2-24"	2-24"	2-24"	
		3-16"	3-18"	3-18"	3-18"	3-18"	3-18"	3-18"	3-18"	3-18"	
		4-16"	4-16"	4-16"	4-16"	4-16"	4-18"	4-16"	4-18"	4-18"	
		36	40	44	36	40	44	36	40	44	
		6466	7240	8210	8272	8839	10056	9877	10670	11282	
		3360	3818	4270	4309	4561	5259	5058	5534	5628	
		2-24"	2-24"	2-24"	2-24"	2-24"	3-24"	2-24"	3-24"	3-24"	
		3-18"	4-18"	4-18"	4-18"	4-18"	4-18"	4-18"	4-18"	4-18"	
		40	42	48	40	42	48	40	42	48	
		7674	8597	9464	9818	10382	11656	11395	12359	13612	
		3984	4531	4782	5109	5298	5956	5667	6257	6893	

NOTES

- Table includes most restrictive case with 0' to 2' maximum roof overhangs.
- Provide posts or wall at both ends to support reactions. Provide 5" minimum bearing in the direction of the hip or valley at each end based on Douglas Fir-Larch or Southern Pine post or plate material. (For example, a 2x4 wall provides 5" minimum bearing for a hip or valley rafter framing at a 45 degree angle to the wall.)
- The building designer must consider thrust resistant connections at bearing locations.
- For non-equal roof slopes, use the longest horizontal roof rafter span (L) and the greatest roof slope.
- Table is based on triangular loading applied to the hip or valley member. Live load is calculated as applied vertically to the horizontal projection of the rafter and dead load is calculated along the rafter length.
- Size is based on uniform roof snow applications with a load duration factor of 115% and deflection criterion of L/240 live load and L/180 total load.
- Refer to pages 27-28 for fastening recommendations for multiple-ply members. Use the longest horizontal roof rafter span (L) to determine span-carried length for uniform loading.
- Reactions shown include heaviest beam weight selected for load and slope conditions.
- A structural ridge beam is assumed.
- A single 3½" thick ply can be substituted for any two 1¾" thick plies.
- Codes require that hip and valley beam depths be greater than or equal to the cut end of the rafter.

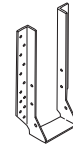
LVL Bearing Length Requirements (Inches)

Reaction (lbs)	Support Material															
	SPF South (335 psi)				Hem-Fir (405 psi)				Southern Pine (565 psi)				LVL (750 psi)			
	Beam Thickness				Beam Thickness				Beam Thickness				Beam Thickness			
	1¾"	3½"	5¼"	7"	1¾"	3½"	5¼"	7"	1¾"	3½"	5¼"	7"	1¾"	3½"	5¼"	7"
1,000	1¾	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½
2,000	3½	1¾	1½	1½	3	1½	1½	1½	2¼	1½	1½	1½	1¾	1½	1½	1½
3,000	5¼	2¾	1¾	1½	4¼	2¼	1½	1½	3¼	1¾	1½	1½	2½	1½	1½	1½
4,000	7	3½	2½	1¾	5¾	3	2	1½	4¼	2¼	1½	1½	3¼	1¾	1½	1½
5,000	8¾	4½	3	2¼	7¼	3¾	2½	2	5¼	2¾	1¾	1½	4	2	1½	1½
6,000	10¼	5¼	3½	2¾	8½	4¼	3	2¼	6¼	3¼	2¼	1¾	4¾	2½	1¾	1½
7,000		6	4	3	10	5	3½	2½	7¼	3¾	2½	2	5½	2¾	2	1½
8,000		7	4¾	3½		5¾	4	3	8¼	4¼	2¾	2¼	6¼	3¼	2¼	1¾
9,000		7¾	5¼	4		6½	4¼	3¼	9¼	4¾	3¼	2½	7	3½	2½	1¾
10,000		8¾	5¾	4½		7¼	4¾	3¾	10¼	5¼	3½	2¾	7¾	4	2¾	2
11,000		9½	6½	4¾		8	5¼	4		5¾	3¾	3	8½	4¼	3	2¼
12,000		10¼	7	5¼		8½	5¾	4¼		6¼	4¼	3¼	9¼	4¾	3¼	2½
13,000			7½	5¾		9¼	6¼	4¾		6¾	4½	3½	10	5	3½	2½
14,000			8	6		10	6¾	5		7¼	4¾	3¾		5½	3¾	2¾
15,000			8¾	6½			7¼	5½		7¾	5¼	4		5¾	4	3
16,000			9¼	7			7¾	5¾		8¼	5½	4¼		6¼	4¼	3¼
17,000			9¾	7¼			8	6		8¾	5¾	4½		6½	4½	3¼
18,000			10¼	7¾			8½	6½		9¼	6¼	4¾		7	4¾	3½
19,000				8¼			9	6¾		9¾	6½	5		7¼	5	3¾
20,000				8¾			9½	7¼		10¼	6¾	5¼		7¾	5¼	4
21,000				9			10	7½			7¼	5½		8	5½	4
22,000				9½			10½	8			7½	5¾		8½	5¾	4¼
23,000				10				8¼			8	6		9	6	4½
24,000				10¼				8½			8¼	6¼		9¼	6¼	4¾
25,000								9			8½	6½		9¾	6½	5

NOTES

1. Minimum required bearing length is 1½" for end bearings and 3" for intermediate bearings.
2. Bearing across full width of beam or header is required.
3. Table is based on moisture content being less than 16% for engineered lumber and not exceeding 19% for lumber.
4. Confirmation of structural adequacy of supporting member is required.
5. LVL beams and headers must be restrained against rotation at ends and supports.
6. When plate material is of **Southern Pine graded non-dense** or of **SPF**, use bearing lengths shown for Hem-Fir .
7. When plate material is of **Douglas Fir-Larch** or **Douglas Fir-Larch (N)**, use bearing lengths shown for Southern Pine.
8. When LVL rests on **steel or in a hanger**, use bearing lengths shown for respective LVL.
9. When LVL rests directly **on end grain of studs or cripples** of the lumber listed above, use bearing lengths shown for LVL multiplied by 1.2.
10. No reduction in bearing length (no increase in bearing stress, Fc⊥) is allowed for duration of load.

Simpson Strong-Tie® Connectors for LVL



LVL Member Supported		Top Mount	Capacity 100% (lbs)	Face Mount	Capacity 100% (lbs)
Thickness	Beam Depth				
1 3/4"	7 1/4"	WP1.81/7.25	3635	HU7	2145
	9 1/4"	WP9.25	3635	HUS1.81/10	4900
	9 1/2"	WP9	3635	HUS1.81/10	4900
	11 1/4"	LBV1.81/11.25	2910	HUS1.81/10	4900
	11 7/8"	WP11	3635	HUS1.81/10	4900
	14"	WP14	3635	HUS1.81/10	4900
3 1/2"	7 1/4"	WPU3.56/7.25	4700	HGUS48	6805
	9 1/4"	HWU3.56/9.25	6335	HGUS410	8780
	9 1/2"	HWU3.56/9.5	6335	HGUS410	8780
	11 1/4"	HWU3.56/11.25	6335	HGUS412	9155
	11 7/8"	HWU3.56/11.88	6335	HGUS412	9155
	14"	HWU3.56/14	6335	HGUS414	10015
	16"	HWU3.56/16	6335	HGUS414	10015
	18"	HWU3.56/18	6335	HGUS414	10015
5 1/4"	7 1/4"	WPU5.50/7.25	4700	—	—
	9 1/4"	GLTV5.50/9.25	7500	HGUS5.50/10	8780
	9 1/2"	HGLTV5.59	10500	HGUS5.50/10	8780
	11 1/4"	GLTV5.50/11.25	7500	HGUS5.50/12	9155
	11 7/8"	HGLTV5.511	10500	HGUS5.50/12	9155
	14"	HGLTV5.514	10500	HGUS5.50/14	10015
	16"	HGLTV5.516	10500	HGUS5.50/14	10015
	18"	HGLTV5.518	10500	HGUS5.50/14	10015
	24"	—	—	—	—
7"	9 1/4"	GLTV49.25-2	7500	HGUS7.25/10	8780
	9 1/2"	GLTV49.5-2	7500	HGUS7.25/10	8780
	11 1/4"	GLTV411.25-2	7500	HGUS7.25/12	9835
	11 7/8"	HGLTV411.88-2	10500	HGUS7.25/12	9835
	14"	HGLTV414-2	10500	HGUS7.25/14	11110
	16"	HGLTV416-2	10500	HGUS7.25/14	11110
	18"	HGLTV418-2	10500	HGUS7.25/14	11110
24"	HGLTV7.12/24	10500	—	—	

NOTES

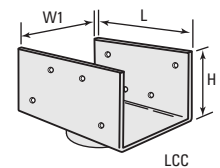
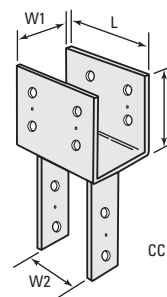
1. Capacity is for the stated duration of load—100% floor loading. Hanger capacity depends on the hanger selected, quantity and size of nails used, and the size and type of support to which it is fastened. **Hanger capacities shown are based on attachment to LVL header material using the hanger manufacturer's recommended nailing. Minimum header thickness is 3 1/2".** Some hanger/header/fastener combinations may not meet maximum beam capacities and a qualified designer should be consulted. Before selecting hangers, please refer to the appropriate reference/design guide from the hanger manufacturer for expanded design information. Many other designs are available for specialized applications.

2. Hanger model numbers quoted are for Simpson Strong-Tie® and United Steel Products Company, Inc. hangers. Some suppliers carry similar products produced by other manufacturers. Contact your local building material retailer for conversion information and details.

3. Special consideration is required with top mount hangers on nailers. Refer to the hanger manufacturer's catalog for reduced capacity.

Simpson Beam-To-Column Connectors for LVL

Column Cap	Capacity* 100% (lbs)	W1	Column**	W2	L	H
CC44	15310	3 5/8"	4 x Wood	3 5/8"	7"	4"
CC46	24060	3 5/8"	6 x Wood	5 1/2"	11"	6 1/2"
CC48	24060	3 5/8"	8 x Wood	7 1/2"	11"	6 1/2"
CC64	28586	5 1/2"	4 x Wood	3 5/8"	11"	6 1/2"
CC66	30250	5 1/2"	6 x Wood	5 1/2"	11"	6 1/2"
CC68	37810	5 1/2"	8 x Wood	7 1/2"	11"	6 1/2"
CC86	41250	7 1/2"	6 x Wood	5 1/2"	13"	8"
CC88	54600	7 1/2"	8 x Wood	7 1/2"	13"	8"
LCC3.5-4	20670	3 5/8"	4" dia. steel	—	11 1/2"	4"
LCC5.25-4	20670	5 3/8"	4" dia. steel	—	11 1/2"	4"
LCC7-4	20670	7 1/8"	4" dia. steel	—	11 1/2"	4"

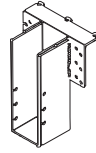


* Capacity is maximum capacity of the Simpson column cap.

** Adequacy of column to be verified by others.

USP Structural Connectors™ for LVL

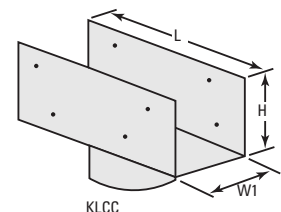
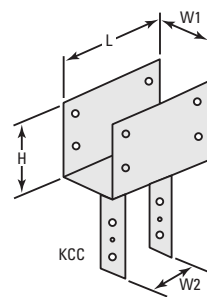
Please refer to notes on page 33.



LVL Member Supported		Top Mount	Capacity 100% (lbs)	Face Mount	Capacity 100% (lbs)
Thickness	Beam Depth				
1 3/4"	7 1/4"	PHXU17725	4425	HD1770	1960
	9 1/4"	BPH17925	3395	THD179	5320
	9 1/2"	BPH1795	3395	THD179	5320
	11 1/4"	BPH17112	3395	THD179	5320
	11 7/8"	BPH17118	3395	THD179	5320
	14"	BPH1714	3395	THD179	5320
3 1/2"	7 1/4"	—	—	—	—
	9 1/4"	LBH35925	6500	THDH410	8170
	9 1/2"	LBH3595	6500	THDH410	8170
	11 1/4"	LBH35112	6500	THDH412	9875
	11 7/8"	LBH35118	6500	THDH412	9875
	14"	HLBH3514	10620	THDH414	11100
	16"	HLBH3516	10620	THDH414	11100
18"	HLBH3518	10620	THDH414	11100	
5 1/4"	24"	HLBH3524	10620	—	—
	7 1/4"	—	—	—	—
	9 1/4"	HLBH52925	10620	THDH610	8640
	9 1/2"	HLBH5295	10620	THDH610	8640
	11 1/4"	HLBH52112	10620	THDH612	9935
	11 7/8"	HLBH52118	10620	THDH612	9935
	14"	HLBH5214	10620	THDH614	11645
	16"	HLBH5216	10620	THDH614	11645
18"	HLBH5218	10620	THDH614	11645	
7"	24"	—	—	—	—
	9 1/4"	HLBH71925	10620	THDH7210	8170
	9 1/2"	HLBH7195	10620	THDH7210	8170
	11 1/4"	HLBH71112	10620	THDH7212	9875
	11 7/8"	HLBH71118	10620	THDH7212	9875
	14"	HLBH7114	10620	THDH7214	11580
	16"	HLBH7116	10620	THDH7214	11580
	18"	HLBH7118	10620	THDH7214	11580
24"	HLBH7124	10620	—	—	

USP Beam-To-Column Connectors for LVL

Column Cap	Capacity* 100% (lbs)	W1	Column**	W2	L	H
KCC44	15315	3 5/8"	4 x __Wood	3 5/8"	7"	4"
KCC46	24065	3 5/8"	6 x __Wood	5 1/2"	11"	6 1/2"
KCC48	24065	3 5/8"	8 x __Wood	7 1/2"	11"	6 1/2"
KCC64	37815	5 1/2"	4 x __Wood	3 5/8"	11"	6 1/2"
KCC66	37815	5 1/2"	6 x __Wood	5 1/2"	11"	6 1/2"
KCC68	37815	5 1/2"	8 x __Wood	7 1/2"	11"	6 1/2"
KCC84	60940	7 1/2"	4 x __Wood	3 5/8"	13"	8"
KCC86	60940	7 1/2"	6 x __Wood	5 1/2"	13"	8"
KCC88	60940	7 1/2"	8 x __Wood	7 1/2"	13"	8"
KLCC35-4	21000	3 5/8"	4" dia. steel	—	11 1/2"	4"
KLCC525-4	21000	5 3/8"	4" dia. steel	—	11 1/2"	4"
KLCC7-4	21000	7 1/8"	4" dia. steel	—	11 1/2"	4"



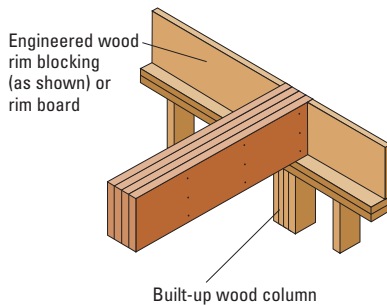
* Capacity is maximum capacity of the USP column cap.

** Adequacy of column to be verified by others.

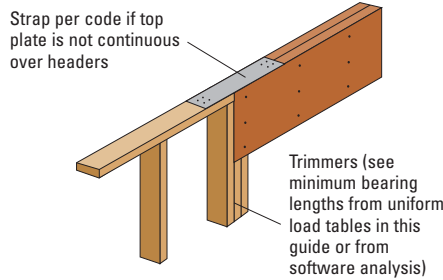
Bearing Details

Confirm the required bearing area is provided by a support that has adequate strength to carry the load.

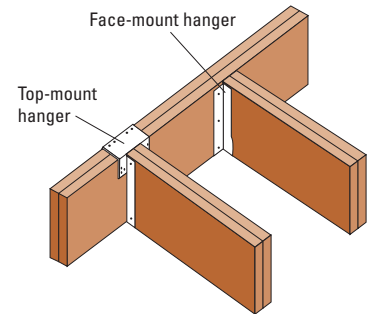
B1 Bearing at Wall



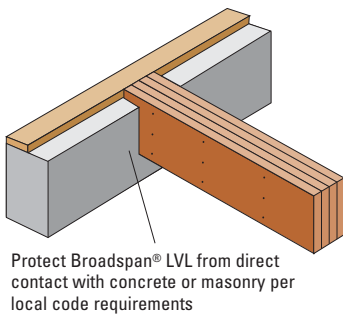
B2 Bearing for Door or Window Header



B3 Beam-to-Beam Connection

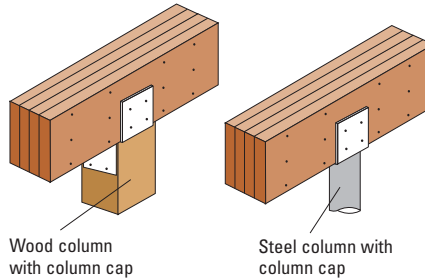


B4 Bearing at Concrete Wall



B5 Bearing at Wood or Steel Column

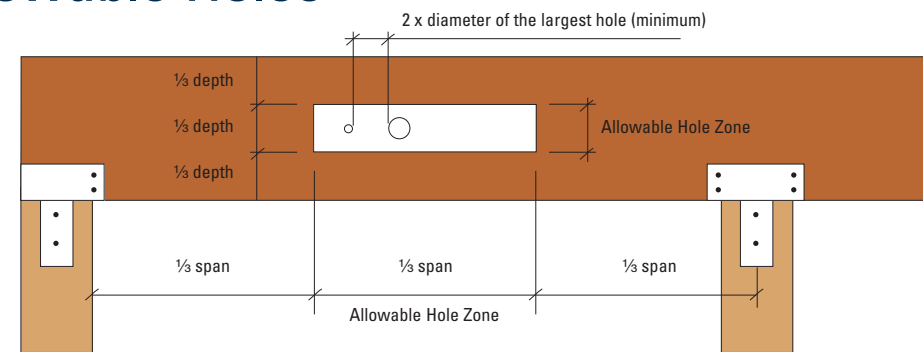
Side plates are required for lateral restraint (if at beam ends) and side plate connections may be required for lateral load transfer.



Bearing area is extremely critical and must be considered for each application.

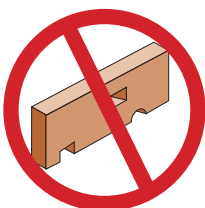
Multiple plies of Broadspan LVL can be fastened together to form a beam or header of the required size, up to a maximum width of 7" for 1 3/4" and 3 1/2" thick plies. See pages 27-28 for details.

Allowable Holes



GENERAL NOTES

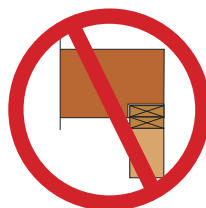
- The Allowable Hole Zone is suitable for uniformly loaded beams using maximum loads from any table in this guide. For other load conditions or hole configurations, please contact your Broadspan representative.
- If more than one hole is to be cut in the beam, the length of the uncut beam between holes must be a minimum of twice the diameter of the largest hole. No more than three holes are allowed per span.
- Rectangular holes are not allowed.
- Holes in cantilevers require additional analysis.
- Required hole clearance and the effects of beam deflection must be considered to prevent problems with utilities that penetrate the holes.



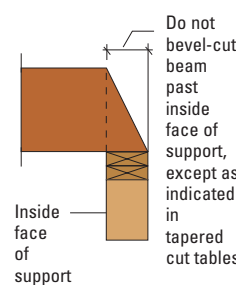
Do not cut, notch or drill holes in Broadspan LVL except as indicated in illustration for allowable holes



Do not overhang seat cuts on Broadspan LVL beams from inside face of support member



Do not notch underside of beam at bearing location



Allowable Hole Sizes

Beam Depth	Maximum Round Hole Diameter
3 1/2" - 7"	3/4"
7 1/4" - 9 1/4"	1 1/2"
9 1/2" - 16"	2"
deeper than 16"	3"



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