

世紀

1 2 1



Product Guide At A Glance **BLI** Joists Introduction 4 Design Properties 5 Framing System Design Considerations 6 Floor Spans 7 Bonus Room Floors 8 Material Weights.....9 General Notes for Load Tables 9 Floor Load Table 10 Floor Framing System 12 Cantilevers 18 Illustrated Cantilever Details 19 Sound Attentuation Ratings...... 20 Roof Spans 22 Roof Slope Factors & Plumb Cut Increases ... 30 Storage and Handling 30 Safety Precautions 30 Framing Connectors for BLI Joists 32 onCENTER Rim Board 33 onCENTER LVL Calculating Uniform Loads 36 Bearing Length Requirements 45 USP Structural Connectors™ for LVL 48 Simpson Strong-Tie® Connectors for LVL 49 Holes 50 Storage, Handling & Installation 50 Green Building Certification Eligibility 51 onCENTER AFL 52 Glulams 53 Doma Studio™......54 Warranty 55 Additional information available online at www.buildonCENTER.com BlueLinx



When it's built right, it's onCENTER!

QUALITY • SERVICE • VALUE

onCENTER Delivers QUALITY

- Manufactured in state-of-the-art facilities
- Only the highest quality raw materials used
- Consistent depth
- Produced under controlled conditions that reduce moisture content, resulting in:
 - more stable products
 - quieter floor systems
 - dependability and durability
- Meets strict quality standards per APA-EWS third-party mill inspections
- Backed by a lifetime limited warranty* assuring long-lasting, consistent performance

onCENTER Delivers Superior SERVICE

- Complete framing solutions
- Knowledgeable people behind the products: rely on a field team of experts available to consult on a project basis from product selection through installation
- Framing systems backed by a full-service team of engineers and technicians
- Product mix tailored to regional market needs
- BlueLinx is a leading distributor of building products in North America

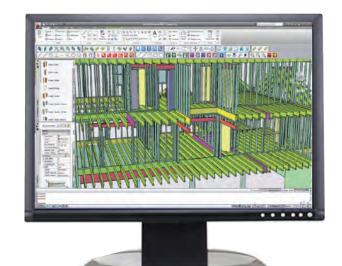
^{*} Visit www.buildonCENTER.com or call 877-914-7770 for terms, conditions, and limitations of limited warranty.





onCENTER Delivers VALUE

- Our supply chain efficiencies and volume purchasing allow us to provide quality products cost-effectively
- onCENTER Framing Systems can contribute towards green building certification programs such as LEED®, Green Globes®, and the National Green Building Standard
- SFI® certified products available
- Cost-effective versus conventional lumber framing by reducing a project's cycle time with faster installation
 - less waste
 - long lengths
 - lightweight, straight and true products
- Exceed your customer's expectations with strong and quiet floors that offer the flexibility to open up floor plans for today's lifestyles



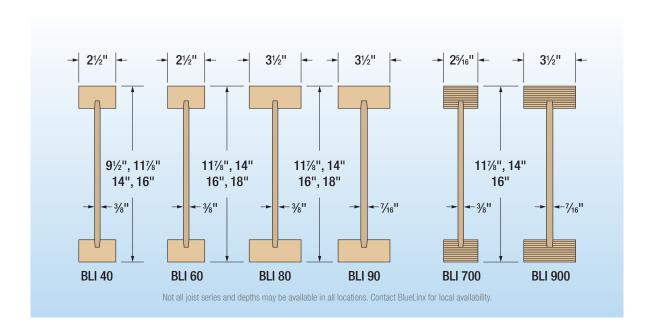


onCENTER products are included in *Doma Studio*, a powerful, all-encompassing suite of software programs to draw and design, perform engineering analysis, and optimize cutting patterns to reduce waste.

onCENTER® BLI Joists

- Lightweight and easy to handle, the I-shaped configuration allows for longer spans and more load-carrying capacity than dimension lumber
- Manufactured with machine stress rated (MSR) or laminated veneer lumber (LVL) flanges and an enhanced OSB web
- Low moisture content means greater dimensional stability resulting in quieter floors and fewer costly callbacks
- Wide flanges provide more support for floor sheathing and more surface area for nailing, saving time and money





Design Properties for BLI Joists

Joist Series	Joist Depth	El (10 ⁶ in²-lbs)	Maximum Moment ^{a,b} (ft-lbs)	Maximum Shear ^b (lbs)	1¾" End Reaction ^{b,c,d} (lbs)	3½" Intermediate Reaction ^{b,c} (lbs)	Weight (plf)
	91/2"	193	2735	1120	1080	2160	2.6
BLI 40	11%"	330	3545	1420	1200	2500	2.9
DLI 40	14"	482	4270	1710	1200	2500	3.3
	16"	657	4950	1970	1200	2500	3.6
	11%"	396	4900	1420	1200	2500	3.2
BLI 60	14"	584	5895	1710	1200	2500	3.4
DLI 00	16"	799	6835	1970	1200	2500	3.7
	18"	1046	7895	2250	1250	2500	3.9
	11%"	547	6940	1420	1280	2760	3.7
BLI 80	14"	802	8360	1710	1280	3020	3.9
DLI 00	16"	1092	9690	1970	1280	3100	4.1
	18"	1413	11000	2300	1250	3100	4.3
	11%"	601	8515	1420	1280	2760	3.9
BLI 90	14"	877	10255	1710	1280	3020	4.1
DLI 90	16"	1187	11895	1970	1280	3265	4.3
	18"	1546	13455	2450	1250	3200	4.5
	11%"	420	6595	1420	1160	2460	2.9
BLI 700	14"	613	7865	1710	1160	2460	3.2
	16"	841	9010	1970	1160	2460	3.5
	11%"	661	10145	1925	1400	3355	4.1
BLI 900	14"	965	12100	2125	1400	3355	4.4
	16"	1306	13865	2330	1400	3355	4.7

- a. No increase permitted for repetitive member use factor.
- b. Tabulated values for maximum moment, shear, and reactions are for normal load duration and may be increased for other load durations in accordance with applicable building codes.
- c. Tabulated maximum reactions are without bearing stiffeners. For maximum reactions with bearing stiffeners or with other bearing lengths, visit www.buildonCENTER.com.
- d. For the maximum end reaction with an end bearing length of 4", use the tabulated maximum shear value. Maximum reactions for end bearing lengths between 134" and 4" may be determined by interpolation. Bearing stiffeners are required for end reactions exceeding 1550 lbs.

Approximate Deflection (inches) =
$$\frac{22.5\text{wL}^4}{\text{EI}} + \frac{2.308\text{wL}^2}{\text{d x }10^5}$$

w = uniform load (plf)

L = span (feet)

El = stiffness constant (in²-lbs)

d = joist depth (inches)

FRAMING SYSTEM DESIGN CONSIDERATIONS



onCENTER® BLI joists provide the floor system designer several alternatives regarding joist series and depths. Exploring these options along with joist spacing should enable the designer to determine the optimal floor with consideration to the satisfaction of the end-user and the costs associated with the selection.

The following factors will affect floor system performance:

- Span
- Spacing
- Joist series and depth
- Type of subfloor used, and how it is attached
- Elevation of supports
- Type of support
- Presence of gypsum wallboard underneath
- Size of room and contents the floor is supporting

Floor performance may be estimated by the familiar "L/x" fraction, where "x" is span divided by live load deflection (both in inches). The traditional building code requirement of L/360 was developed over a century ago. The wood I-joist industry has found through experience that I-joist floors should be designed to a more stringent L/480, which results in a floor that is one-third stiffer than one designed at the code minimum L/360.

There are other factors that influence floor performance. Gluing the subfloor to the joist framing has been found to significantly enhance floor performance. All floor span tables in this guide reflect this

enhancement. A thicker subfloor will increase composite action with the joists as well as transverse floor stiffness. X-bridging or BLI blocking panels (refer to detail F21 on page 17) properly installed at the center of the span will also increase transverse floor stiffness. A gypsum wallboard ceiling attached directly to the joists will enhance system performance by providing damping.

Note that a floor supporting large open areas with minimal furniture, such as an oversized great room, may be more prone to vibration than the same floor supporting smaller rooms, since the latter will have added damping from partition walls and contents of the additional rooms.

Quality of workmanship also can contribute to floor performance. Uneven bearing elevations, while generally not detrimental to the structural integrity of the building, may result in the perception of a poor performing floor. A floor with joists supported by beams will feel less solid than one with joists supported by walls.

When installing hangers, the installer should leave a $\frac{1}{16}$ " gap between the header and joist and firmly seat each joist in the bottom of the hanger. The gap, firm seating and tight nailing will help reduce squeaks caused by movement in the hanger.

As part of our commitment to customer service, you may call BlueLinx at 877-914-7770 to discuss your project needs and determine how the superior performance of onCENTER Framing Systems best fits into your next project.

40 PSF Live Load + 10 PSF Dead Load (L/480)

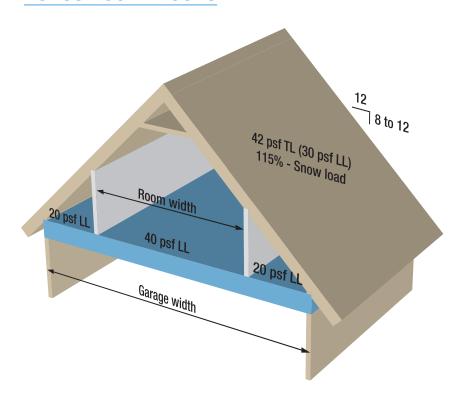


Joist	Joist	_	Simple	e Span		Multiple Span							
Series	Depth	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.				
	9½"	18'-00"	16'-05"	15'-06"	14'-06"	19'-07"	17'-11"	16'-04"	14'-07"				
D11.40	11%"	21'-05"	19'-07"	18'-06"	16'-08"	23'-05"	20'-05"	18'-07"	16'-07"				
BLI 40	14"	24'-04"	22'-03"	20'-06"	18'-04"	25'-11"	22'-05"	20'-05"	18'-03"				
	16"	26'-11"	24'-03"	22'-01"	19'-09"	27'-11"	24'-02"	22'-00"	19'-08"				
	11%"	22'-07"	20'-08"	19'-06"	18'-02"	24'-08"	22'-06"	21'-02"	19'-07"				
DLLCO	14"	25'-09"	23'-06"	22'-02"	20'-08"	28'-00"	25'-07"	24'-01"	19'-09"				
BLI 60	16"	28'-06"	26'-00"	24'-07"	22'-10"	31'-01"	28'-04"	24'-09"	19'-09"				
	18"	31'-03"	28'-06"	26'-11"	24'-10"	34'-01"	29'-09"	24'-09"	19'-09"				
	11%"	24'-11"	22'-08"	21'-04"	19'-10"	27'-01"	24'-08"	23'-03"	21'-07"				
BLI 80	14"	28'-03"	25'-09"	24'-03"	22'-07"	30'-10"	28'-00"	26'-05"	23'-11"				
DLI OU	16"	31'-04"	28'-06"	26'-10"	25'-00"	34'-02"	31'-01"	29'-03"	23'-11"				
	18"	34'-02"	31'-01"	29'-03"	24'-10"	37'-03"	33'-10"	30'-09"	24'-07"				
	11%"	25'-07"	23'-03"	21'-11"	20'-05"	27'-11"	25'-04"	23'-10"	21'-10"				
BLI 90	14"	29'-00"	26'-05"	24'-11"	23'-02"	31'-08"	28'-09"	27'-01"	23'-11"				
DLI 90	16"	32'-01"	29'-03"	27'-06"	25'-05"	35'-00"	31'-10"	29'-11"	25'-11"				
	18"	35'-01"	31'-11"	30'-01"	24'-10"	38'-03"	34'-09"	31'-09"	25'-05"				
	11%"	23'-00"	21'-00"	19'-10"	18'-06"	25'-01"	22'-10"	21'-07"	19'-06"				
BLI 700	14"	26'-01"	23'-10"	22'-06"	20'-11"	28'-05"	25'-11"	24'-05"	19'-06"				
	16"	29'-00"	26'-05"	24'-11"	23'-01"	31'-07"	28'-09"	24'-05"	19'-06"				
	11%"	26'-04"	24'-00"	22'-07"	21'-00"	28'-08"	26'-01"	24'-07"	22'-10"				
BLI 900	14"	29'-11"	27'-02"	25'-07"	23'-10"	32'-07"	29'-07"	27'-10"	25'-11"				
	16"	33'-01"	30'-01"	28'-04"	26'-04"	36'-01"	32'-09"	30'-10"	26'-07"				

NOTES

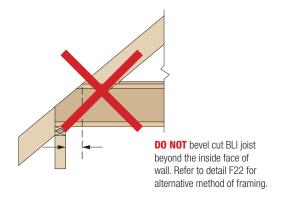
- 1. Spans are maximum clear distances between supports. Uniform loading is assumed.
- Live load deflection is limited to L/480, providing joists that are one-third stiffer than required by code. Experience has shown that floors designed to the code minimum live load deflection (L/360) may not meet the occupant's expectations for floor performance.
- 3. Spans are based on composite action with glued-nailed APA Rated Sheathing or Sturd-I-Floor panels of minimum thickness 1½2" (40/20 or 20 oc) for joist spacing of 19.2" or less, or 2½2" (48/24 or 24 oc) for a joist spacing of 24". Apply a ¼" diameter continuous bead of adhesive (meeting APA AFG-01 or ASTM D 3498) to top flange of joists. Surfaces must be clean and dry. If adhesive is not used, reduce spans by 12".
- 4. Minimum bearing length: 1¾" (end), 3½" (intermediate).
- 5. For multiple-span joists, end spans must be at least 40% of adjacent span.
- Tabulated spans for multiple-span conditions cover a wide range of span combinations. Neither simple nor multiple spans require bearing stiffeners. Longer spans may be possible by analyzing a specific span condition and/or by adding bearing stiffeners. Check using Doma Sizer™ software.
- For span charts with 40 psf live load and 20 psf dead load, refer to Product Guide addendum at www.buildonCENTER.com. For other loads or deflection criteria, refer to Floor Load Table on page 10.

BONUS ROOM FLOORS



NOTES:

- 1. LL = live load, TL = total load.
- In addition to loads shown on the graphic, chart is based on the following:
 - 10 psf floor dead load
 - 40 plf kneewall weight
 - L/240 total load deflection
 - L/480 live load deflection
 - Room width centered about garage width
 - Floor sheathing glued and nailed along entire length of joist
 - Gable roof framing only (no hip framing)
- 3. For other conditions use Doma Sizer™ software or contact BlueLinx at 1-877-914-7770.



Bonus Room Joist Selection

Garage	Room		Joist S	pacing	
Width	Width	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
	8'	BLI 40 - 11%"	BLI 60 - 11%"	BLI 80 - 11%"	BLI 90 - 11%"
	0	DLI 40 - 1178	BLI 40 - 14"	BLI 60 - 14"	BLI 80 - 14"
20'	10'	BLI 40 - 11%"	BLI 60 - 111//8"	BLI 80 - 11%"	BLI 90 - 111/8"
20	10	DLI 40 - 1178	BLI 40 - 14"	BLI 60 - 14"	BLI 80 - 14"
	12'	BLI 40 - 11%"	BLI 60 - 11%"	BLI 80 - 111//8"	BLI 90 - 111//8"
	12	DEI 40 1176	BLI 40 - 14"	BLI 60 - 14"	BLI 60 - 14"1
	10'	BLI 60 - 11%"	BLI 80 - 11%"	BLI 900 - 11%"	BLI 80 - 14"
	10	BLI 40 - 14"	BLI 60 - 14"	BLI 80 - 14"	DLI 00 14
22'	12'	BLI 60 - 11%"	BLI 80 - 11%"	BLI 900 - 111//8"	BLI 80 - 14"1
22	12	BLI 40 - 14"	BLI 60 - 14"	BLI 60 - 14"	DL100 - 14
	14'	BLI 60 - 11%"	BLI 80 - 11%"	BLI 90 - 111//8"	BLI 80 - 14" ^{2,4}
	1-7	BLI 40 - 14"	BLI 60 - 14"	BLI 60 - 14"	DLI 00 14
	10'	BLI 80 - 11%"	BLI 80 - 14"	BLI 90 - 14"	BLI 80 - 16"1
	10	BLI 60 - 14"	BLI 60 - 16"	BLI 80 - 16"	DLI 00 10
	12'	BLI 80 - 11%"	BLI 80 - 14"	BLI 90 - 14"	BLI 900 - 16"
24'	12	BLI 40 - 14"	BLI 60 - 16"	BLI 60 - 16"	BLI 80 - 16"3
24	14'	BLI 80 - 11%"	BLI 80 - 14"	BLI 80 - 14"	BLI 900 - 16"1,4
	1-7	BLI 40 - 14"	BLI 60 - 16"	BLI 60 - 16"	BLI 80 - 16" ^{3, 4}
	16'	BLI 80 - 11%"	BLI 900 - 111/8"	BLI 80 - 14"	BLI 900 - 14" ^{2,5}
	10	BLI 40 - 14"	BLI 80 - 14"	BLI 60 - 16"	BLI 80 - 16"3,5
	12'	BLI 80 - 14"	BLI 90 - 14"	BLI 80 - 16"	BLI 80 - 18"3
	12	BLI 60 - 16"	BLI 80 - 16"	DL100 10	
	14'	BLI 900 - 111//8"	BLI 90 - 14"	BLI 80 - 16"	BLI 900 - 16" ^{2,4}
26'	1-7	BLI 80 - 14"	BLI 80 - 16"	DL100 10	BLI 80 - 18" ^{3, 4}
20	16'	BLI 900 - 11%"	BLI 90 - 14"	BLI 80 - 16"	BLI 900 - 16"2,5
	16'	BLI 80 - 14"	BLI 80 - 16"	BLI 60 - 18"	BLI 80 - 18"3,5
	18'	BLI 900 - 11%"	BLI 80 - 14"	BLI 80 - 16" 1,4	BLI 900 - 16"3,5
	10	BLI 60 - 14"	BLI 60 - 16"	BLI 60 - 18"4	BLI 80 - 18" ^{3,5}

- 1. Minimum bearing length of 2" required.
- 2. Minimum bearing length of 2\%" required.
- 3. Bearing stiffeners required.
- 4. When detail F22 is used, rafter slope cannot be less that 9/12.
- 5. When detail F22 is used, rafter slope cannot be less than 11/12.

Note: When detail F22 is used, bolded and italicized joists indicate the need for one A3 angle per rafter.

MATERIAL WEIGHTS

5/8" gyps 1" plast Metal si w/ acou Wood si	sum wallbo er with lath uspension s stical tile uspension s	ard 1system system		2.5 8.0 1.8
Linoleur Ceramic Ceramic Marble Mortar I Mortar I GYP-CR Light we	od (nomina m or soft til c tile (¾") c or quarry tile (¾") ped (½") ped (1") ETE® (¾")	tile (¾") etile (¾")		4.0 1.5 4.7 10.0 5.2 6.0 12.0 6.5 12.0
Framin	g			
	12" oc	16" oc	19.2" oc	24" oc
2x4	1.1	0.8	0.7	0.6
2x6	1.7	1.3	1.1	0.9
2x8	2.8	2.1	1.8	1.4
2x10	3.5	2.7	2.2	1.8
2x12	4.3	3.2	2.7	2.2

MATERIAL

Ceilings

	PSF
Insulation (per 1" thickness)	
Extruded polystyrene (XPS)	
Fiberglass batts	
Mineral fiber batts (2.5 pcf)	
Rigid	1.5
Miscellaneous	
4" glass block1	
Granite countertop 11/4"1	
Windows, glass, frame and sash	8.0
Roofing	
3-ply ready roofing	1.0
4-ply felt and gravel	5.5
5-ply felt and gravel	6.0
Shingles	
Asbestos-cement	
Asphalt	
Clay tile (min.), for mortar add 10 psf1	
Concrete tile (MonierLifetile) 5.7-1	
Duration®	
Duration® Premium	
Slate (%")	
Wood	
Skylight, metal frame 3/8" glass	
-	

MATERIAL PSF
Sheathing and Decking
OSB
$\frac{7}{16}$ " 1.4 $\frac{15}{32}$ " 1.5 $\frac{19}{32}$ " 2.0 $\frac{23}{32}$ " 2.4
½" 2.9
Plywood
$\frac{3}{8}$ "
18 ga. corrugated metal deck3.020 ga. corrugated metal deck2.5
Walls - Int. (2x4 wood or NLB steel studs)½" gypsum wallboard (GWB) each side 6.0½" GWB one side, plaster one side
Walls - Ext. (½" GWB, 2x6, $5\frac{1}{2}$ " FG batts) $\frac{1}{6}$ " OSB, $\frac{1}{2}$ " XPS, vinyl siding 8.0 1" XPS, $\frac{3}{6}$ " composite siding 8.0 1" XPS, $\frac{5}{6}$ " fiber cement siding 9.0 $\frac{7}{16}$ " OSB, $\frac{7}{6}$ " stucco on wire mesh 17.0 $\frac{7}{16}$ " OSB, brick veneer 48.0

Note: Wall weights are per square foot of wall For plf, multiply psf weight by wall height.

See page 5 for plf weight of BLI joists.

An additional 1.0 - 2.0 psf is recommended for miscellaneous dead loads.

PSF

The uniform load table values on pages 10 and 26 are based on simple or multiple span configurations, clear distance between bearing points, and spans of multiple span joists at least 40% of adjacent spans.

- Calculated live and total loads must be checked against the tabular values. Live load must be checked against the Live row and total load against the Total row. Total load will control if the Live row is blank.
- The values indicated cover a broad range of applications, none of which require bearing stiffeners. Greater loads may be possible by analyzing a specific application and/or by adding stiffeners. Check these and other conditions such as cantilevers and point loads using Doma SizerTM software.

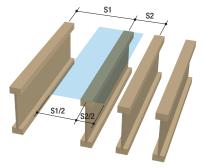
GENERAL NOTES FOR LOAD TABLES

- 4. Minimum bearing length: 1¾" (end), 3½" (intermediate).
- Local building codes can vary. Prior to installation, confirm that the table deflection criteria used are accepted in your location.
- Provide lateral support at all bearing locations and continuous lateral support along the compression flange of each joist.
- Table values can be doubled for double joists. Refer to detail F11 for connection information.
- No additional stiffness from glued and nailed sheathing (composite action) has been incorporated into tabular values.

PSF to PLF Conversion

Joist	Spacing		Load in pounds per square foot (PSF)										
Spacing	Factor	20	25	30	35	40	45	50	55	60	65	70	75
12"	1.00	20	25	30	35	40	45	50	55	60	65	70	75
16"	1.33	27	33	40	47	53	60	67	73	80	87	93	100
19.2"	1.60	32	40	48	56	64	72	80	88	96	104	112	120
24"	2.00	40	50	60	70	80	90	100	110	120	130	140	150

Calculating Uniform Loads



Joist Spacing (S1, S2)

$$\left(\frac{S1(ft)}{2} + \frac{S2(ft)}{2}\right) \times LL(psf) = LL(plf)$$

$$\left(\frac{S1(ft)}{2} + \frac{S2(ft)}{2}\right) \times TL(psf) = TL(plf)$$

Check resulting values against those in the appropriate uniform load table.

FLOOR LOAD TABLE (PLF)



												С	lear Spa	an									
Joist Series	Joist Depth	Load Type / Deflection	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19¹	20'	21'	22'	23¹	24'	25'	26'
	·	1 (000	O	′	0											19	20	21	22	23	24	20	20
	91/2"	Live L/600 L/480				179	136 170	106 132	83 104	67 84	54 68	45 56	37 47	31 39	27 33								
	972	Total L/240	286	244	214	190	171	155	142	125	108	94	83	73	65								
		L/600	200	211	211	100	171	172	137	110	90	75	62	53	45	38	33	29	25	22			
	11%"	Live L/480								138	113	93	78	66	56	48	41	36	31	28			
		Total L/240	334	285	249	221	198	180	165	152	140	122	107	95	85	76	69	62	57	52			
BLI 40		L/600									128	106	89	75	64	55	48	42	36	32	28	25	22
	14"	Live L/480											112	94	81	69	60	52	46	40	35	31	28
		Total L/240	336	287	250	222	199	181	165	153	142	132	124	115	102	92	83	75	69	63	58	53	49
		Live L/600											119	101	86	74	64	56	49	43	38	34	30
	16"	L/480													108	93	80	70	61	54	48	43	38
		Total L/240	338	288	251	222	200	181	166	153	142	132	124	117	110	104	96	87	80	73	67	62	57
		Live L/600							159	129	106	88	73	62	53	45	39	34	30	26			
	11%"	L/480									132	110	92	78	66	57	49	43	37	33			
		Total L/240	336	286	250	221	199	181	165	153	142	132	124	116	110	104	95	86	75	66	0.4	00	07
	14"	Live L/600 L/480										126	106	89	76	66	57	50	43	38	34	30	27
	14	Total L/240	339	288	251	223	200	181	166	153	142	132	124	112 117	96 110	82 104	71 99	62 94	55 90	48 86	42 80	38 74	34 68
BLI 60		L/600	333	200	201	223	200	101	100	100	142	132	124	117	102	88	77	67	59	52	46	41	36
	16"	Live L/480													102	00	96	84	74	65	58	51	46
		Total L/240	341	290	253	224	201	182	166	153	142	133	124	117	110	104	99	94	90	86	83	79	76
		L/600																86	76	67	59	53	47
	18"	Live L/480																		84	74	66	59
		Total L/240	343	292	254	225	201	182	167	154	143	133	124	117	110	105	99	95	90	86	83	79	76
		L/600 Live								168	139	116	97	83	71	61	53	46	40	36			
	11%"	L/480										145	122	104	89	76	66	58	51	45			
		Total L/240	375	319	278	246	221	201	184	169	157	146	137	129	122	115	109	104	99	90			
		Live L/600											138	117	101	87	76	66	58	51	46	41	36
	14"	L/480													126	109	95	83	73	64	57	51	45
BLI 80		Total L/240	415	353	307	271	243	220	202	186	172	161	150	141	134	126	120	114	109	104	100	96	92
	16"	Live L/600 L/480														116	101	88	78	69	61	55	49
	10	Total L/240	416	355	309	273	244	221	202	186	173	161	151	142	134	127	120	111	97 109	86 104	77 100	68 96	61 92
		L/600	410	000	303	210	244	221	202	100	175	101	101	142	104	121	120	112	99	88	78	70	62
	18"	Live L/480																112	00	00	98	87	78
		Total L/240	406	349	306	273	246	224	205	190	176	165	154	145	137	130	124	118	112	107	103	99	95
		L/600									150	125	105	90	77	66	57	50	44	39			
	11%"	Live L/480											132	112	96	83	72	63	55	49			
		Total L/240	377	321	279	247	222	201	184	169	157	147	137	129	122	115	110	104	100	95			
		L/600											148	127	109	94	82	72	63	56	49	44	39
	14"	Live L/480														118	102	90	79	70	62	55	49
BLI 90		Total L/240	416	354	308	272	244	221	202	186	173	161	151	142	134	127	120	114	109	104	100	96	92
22100		Live L/600														124	108	95	84	74	66	59	53
	16"	L/480																119	105	93	82	74	66
		Total L/240	416	358	314	279	252	229	210	194	180	169	158	149	141	133	127	121	115	110	106	101	97
	10"	Live L/400																	107	95	84	75	68
	18"	L/480	100	240	206	070	046	204	205	100	176	165	154	1/5	107	100	104	110	110	100	100	94	85
		Total L/240	406	349	306	273	246	224	205	190	176	100	154	145	137	130	124	118	112	108	103	99	95

NOTES

- 1. Refer to General Notes on page 9.
- 2. Live load deflection of L/480 is recommended. For allowable live load at L/360 deflection (minimum code requirement), multiply L/480 values by 1.33. Refer to page 6 for framing system design considerations.

FLOOR LOAD TABLE (PLF)



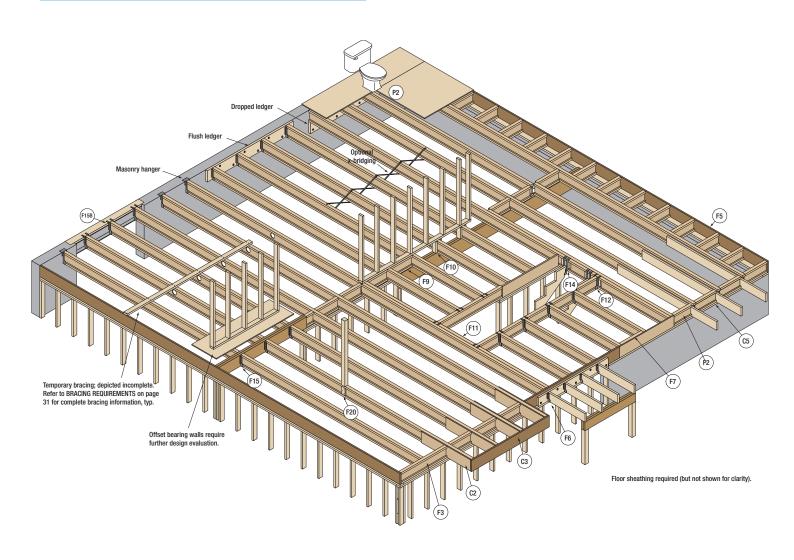
Joist	Joist	Load Type /										Cl	lear Spa	an									
Series	Depth	Deflection	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19¹	20'	21'	22'	23'	24'	25'	26'
		L/600 Live								135	111	92	77	65	56	48	41	36	32	28			
	111//8"	L/480										116	97	82	70	60	52	45	40	35			
		Total L/240	331	282	246	218	196	178	163	150	139	130	122	115	108	103	97	91	80	70			
		Live L/600											110	93	80	69	60	52	45	40	35	32	28
BLI 700	14"	L/480													100	86	75	65	57	50	44	40	35
		Total L/240	334	284	247	219	197	179	163	151	140	130	122	115	108	103	97	93	89	85	81	78	71
		L/600													107	92	80	70	62	54	48	43	38
	16"	L/480																88	77	68	60	54	48
		Total L/240	336	286	249	220	198	179	164	151	140	131	122	115	109	103	98	93	89	85	81	78	75
		L/600								194	161	135	114	97	83	72	63	55	48	42			
	11%"	L/480										169	143	122	104	90	78	68	60	53			
		Total L/240	455	391	340	301	270	245	224	206	191	178	167	157	148	140	133	127	121	107			
		Live L/600											160	137	118	102	89	78	69	61	54	48	43
BLI 900	14"	L/480													147	128	111	98	86	76	67	60	54
		Total L/240	455	391	343	303	272	246	225	207	192	179	168	158	149	141	134	127	121	116	111	107	103
		L/600 Live														134	117	103	91	81	72	64	57
	16"	L/480																	114	101	90	80	72
		Total L/240	455	391	343	305	273	247	226	208	193	180	168	158	149	141	134	127	122	116	111	107	103

NOTES:

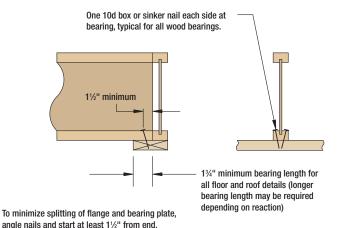
- 1. Refer to General Notes on page 9.
- 2. Live load deflection of L/480 is recommended. For allowable live load at L/360 deflection (minimum code requirement), multiply L/480 values by 1.33. Refer to page 6 for framing system design considerations.

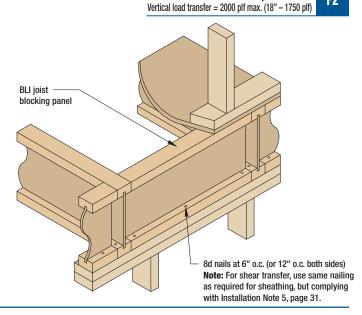


onCENTER® FLOOR FRAMING SYSTEM





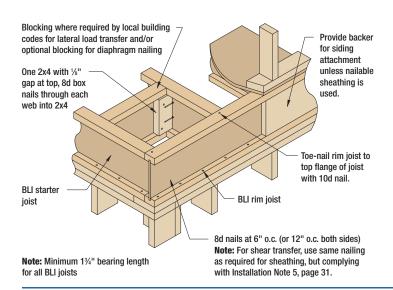




areas of high lateral load.

BLI RIM JOIST / STARTER JOIST

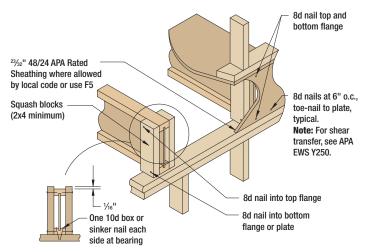
Vertical load transfer = 2000 plf max. (18" - 1750 plf)



SQUASH BLOCKS & SINGLE RIM

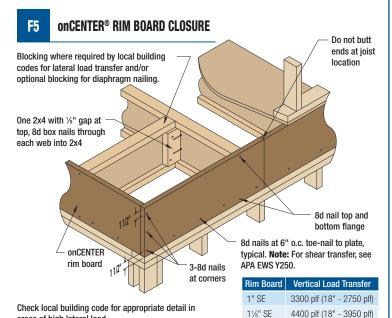
Vertical load transfer = 2000 plf max. along load bearing wall

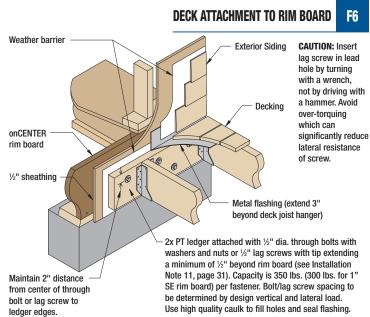
F4

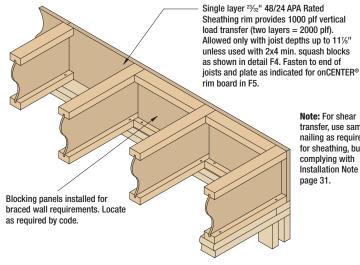


See detail F7 for additional braced wall blocking requirements.

Check local building code for appropriate detail in areas of high lateral load.

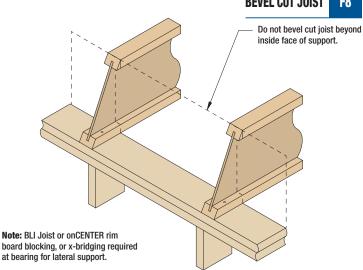






Note: For shear transfer, use same nailing as required for sheathing, but complying with Installation Note 5, page 31.

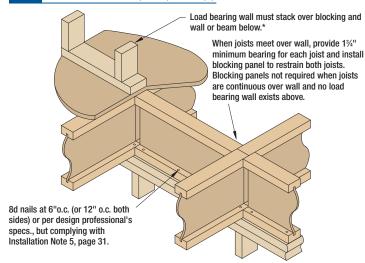
Check local building code for appropriate detail in areas of high lateral load.



Check local building code for appropriate detail in areas of high lateral load.

BLOCKING PANEL, INTERIOR

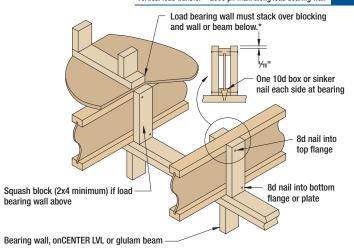
Vertical load transfer = 2000 plf max. (18" - 1750 plf)



* Non-stacking load bearing walls require additional consideration.

SQUASH BLOCKS AT INTERIOR BEARING

Vertical load transfer = 2000 plf max. along load bearing wall



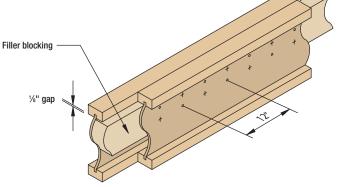
* Non-stacking load bearing walls require additional consideration. Check local building code for appropriate detail in areas of high lateral load.

F11

DOUBLE JOIST CONSTRUCTION WITH FILLER

Note: Filler blocks and fastening between joists can be omitted when double joists are loaded evenly from above to the tops of both joists, such as when a parallel bearing wall is directly centered over the double joist.

Joist		Regular Filler Blocking	Full-depth Filler Blocking
Series	Depth	(Detail F12)	(Details C4, F13, F14 & R7)
BLI 700	11¾" 14" 16"	2x6 + 3/8" OSB/Plywood 2x8 + 3/8" OSB/Plywood 2x8 + 3/8" OSB/Plywood	2x8 + 3/8" OSB/Plywood 2x10 + 3/8" OSB/Plywood 2x12 + 3/8" OSB/Plywood
BLI 40	91/2"	2x6 + 5/8" OSB/Plywood	2x6 + 5/8" OSB/Plywood
BLI 40, 60	11¾" 14" 16"	2x6 + 5/8" OSB/Plywood 2x8 + 5/8" OSB/Plywood 2x8 + 5/8" OSB/Plywood	2x8 + 5/8" OSB/Plywood 2x10 + 5/8" OSB/Plywood 2x12 + 5/8" OSB/Plywood
BLI 60	18"	2x8 + 5/8" OSB/Plywood	2x12 + %" OSB/Plywood
BLI 80, 90, 900	11¾" 14" 16"	2-2x8 2-2x8 2-2x8	2-2x8 2-2x10 2-2x12
BLI 80, 90	18"	2-2x8	2-2x12



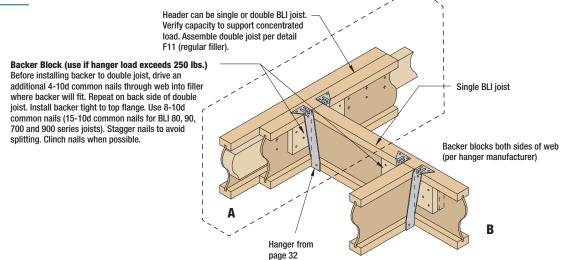
- 1. Support back of web during nailing to prevent damage to web-flange connection.
- 2. Leave $\frac{1}{8}$ " gap between top of filler blocking and bottom of top flange.
- Block solid between joists. For all applications except cantilever reinforcement, filler need not be one continuous length, but must extend the entire length of span. For double I-joist cantilever reinforcement C4, filler must be one continuous piece extending the full length of
- Place joists together and nail from each side with 2 rows of 10d common nails (16d common for BLI 80, BLI 90, and BLI 900) at 12" o.c. Stagger rows on opposite side 6".

Backer Blocks*

Joist Series	Material
BLI 700	7/8"
BLI 40, 60	1/2" + 1/2"
BLI 80, 90, 900	1½"

Joist Depth	Block Depth
9½", 11¾"	51/2"
14" - 18"	71/4"

* Block centered on hanger location. Minimum length 24".



 $\label{eq:header can be single or double BLI joist.}$

Verify capacity to support concentrated

FLOOR OPENING, FACE MOUNT HANGERS

Backer Blocks*

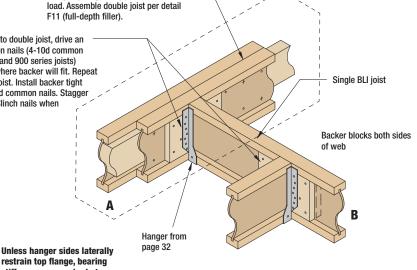
Joist Series	Material
BLI 700	7/8"
BLI 40, 60	1/2" + 1/2"
BLI 80, 90, 900	1½"

Joist Depth	Block Depth
91/2"	61/4"
11%"	85/8"
14"	10¾"
16"	123/4"
18"	143/4"

^{*} Block centered on hanger location. Minimum length 24".

Backer Block

Before installing backer to double joist, drive an additional 7-10d common nails (4-10d common nails for BLI 80, 90, 700 and 900 series joists) through web into filler where backer will fit. Repeat on back side of double joist. Install backer tight to top flange. Use 18-10d common nails. Stagger nails to avoid splitting. Clinch nails when possible.



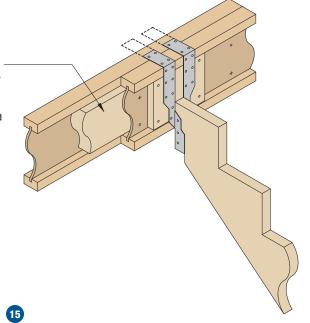
restrain top flange, bearing stiffeners are required at hangers (see detail F18).

STAIR STRINGER TO JOIST CONNECTION

Double BLI joist shown as header. on CENTER $\ensuremath{^{\circ}}$ LVL may also be used. Verify header capacity to support concentrated loads. Assemble double joist per detail F11 (full depth filler). Backer block size and installation per detail F13.

Hangers	Nailing Requirement						
USP MSH218 or Simpson Strong-Tie® THA218	Minimum 12-10d nails into LVL header or double joists. Minimum 4-10d x 1½" nails into stringer.						
For stringers longer than 14' or stringer reactions exceeding 700 lbs.,							

call BlueLinx



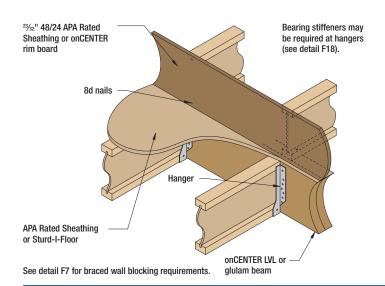
Bearing stiffeners may be required at hangers (see detail F18).

* Appropriate face mount hanger may be substituted, but 'B' requires solid wood blocking properly attached to the steel beam.

Ledger for floor sheathing attachment Face mount hanger Bearing stiffeners may be required (see detail F18). onCENTER LVL or glulam beam

JOIST TO BEAM CONNECTION, STEP DOWN

JOIST TO DROPPED BEAM CONNECTION, STEP DOWN



BEARING STIFFENERS

2"±	不				
		Stiffener (plywood, OSB, 2x4) each	Joist Series	Stiffener Material	
		side at:	BLI 40, 60, 700	1/2" + 1/2"	4
		 Hangers with side nailing 	BLI 80, 90, 900	1½"	4
		•	Minimum stiffener	width is 25/16	".

Gap (1/4"+)

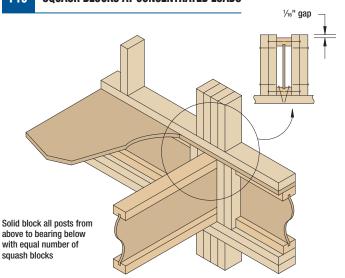
Material 700 ½" + ½" 4-8d* 900 11/2" 4-10d*

- Hangers with sides not restraining top flange of joist - Birdsmouth cuts

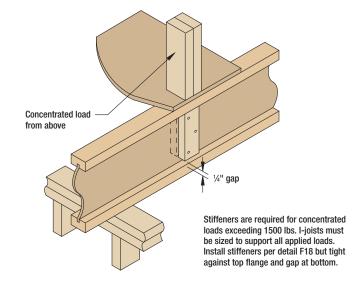
* Use 6 nails for 18" joists.

Tight fit

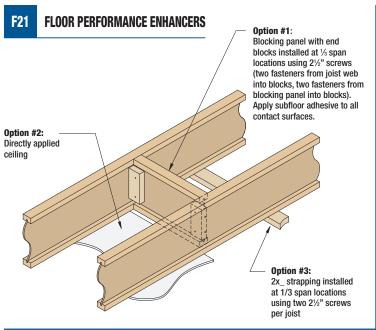
SQUASH BLOCKS AT CONCENTRATED LOADS

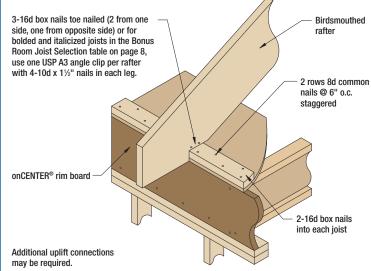


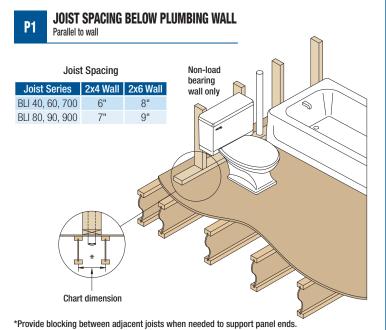
WEB STIFFENERS

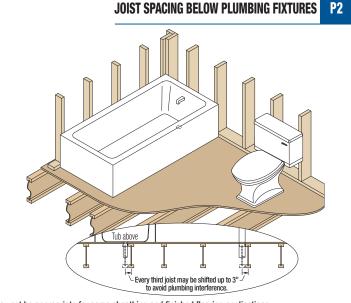








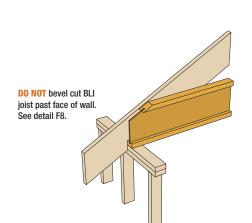


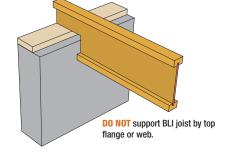


May not be appropriate for some sheathing and finished flooring applications.

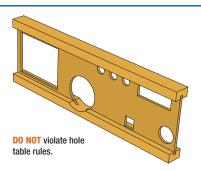


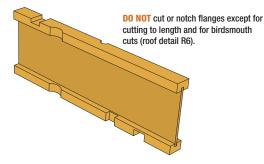
INSTALLATION CAUTIONS



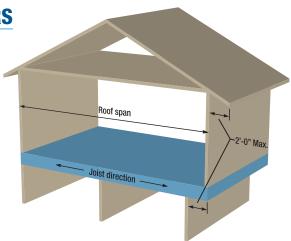








CANTILEVERS



NOTES:

- 1. Chart based on the following:
 - 40 psf live and 10 psf dead load floor loading
 - 15 to 25 psf roof dead load 80 plf exterior wall load
 - 115% roof load duration
- 2. Joist must meet span limitations on page 7.
- 3. For other conditions use Doma SizerTM software or contact BlueLinx.
- 4. A joist may be required beneath the ends of headers that exceed 3' in length and support roof framing.

		F	Roof total lo	oad = 35 ps	sf	ŀ	Roof total lo	oad = 45 ps	sf	F	Roof total lo	oad = 55 ps	f	Roof total load = 65 psf			
Joist	Roof		Joist s	spacing			Joist s	pacing			Joist s	pacing			Joist s	pacing	
Depth	Span	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.	12" o.c.	16" o.c.	19.2" o.c.	24" o.c.
	26'	0	0	0	1	0	1	1	2	1	2	Χ	Χ	2	Χ	Χ	Χ
	28'	0	0	1	1	0	1	2	Χ	1	2	Χ	Χ	2	Χ	Χ	X
91/2"	30'	0	0	1	2	0	1	2	Χ	1	2	Χ	Χ	2	Χ	Χ	Х
3/2	32'	0	1	1	2	1	1	2	Х	2	Х	Х	Х	2	Χ	Χ	Х
	34'	0	1	1	2	1	2	2	Χ	2	Χ	Χ	Χ	Χ	Χ	Χ	X
	36'	0	1	1	2	1	2	X	Χ	2	Х	Х	Χ	Х	Х	Х	X
	26'	0	0	0	0	0	0	0	1	0	0	1	2	0	1	2	X
	28'	0	0	0	0	0	0	0	1	0	1	1	2	1	1	2	X
	30'	0	0	0	0	0	0	0	1	0	1	1	2	1	2	2	X
11%"	32'	0	0	0	0	0	0	1	1	0	1	2	Χ	1	2	2	Х
	34'	0	0	0	1	0	0	1	2	0	1	2	Χ	1	2	Χ	X
	36'	0	0	0	1	0	0	1	2	1	1	2	Χ	1	2	Χ	Х
	38'	0	0	0	1	0	1	1	2	1	2	2	Χ	1	2	Χ	Χ
	26'	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
	28'	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1	2
14"	30'	0	0	0	1	0	0	0	1	0	0	1	2	0	1	1	X
	32'	0	0	0	1	0	0	0	1	0	0	1	2	0	1	2	X
	34'	0	0	0	1	0	0	0	1	0	0	1	X	0	1	2	X
	36'	0	0	0	1	0	0	1	2	0	1	1	X	1	1	2	X
	38'	0	0	0	1	0	0	1	2	0	1	2	X	1	1	X	X
	40'	0	0	0		0	0	1	2	0		2	X	1	2	X	X
	26'	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	2
	28' 30'	0	0	0	1	0	0	0	1	0	0	1		0	0	1	2
	32'	0	0	0	1	0	0	0	1	0	0	1	1 2	0	1	1	X
16"	34'	0	0	0	1	0	0	0	1	0	0	1	2	0	1	2	X
10	36'	0	0	0	1	0	0	0	1	0	0	1	2	0	1	2	X
	38'	0	0	0	1	0	0	1	2	0	1	1	X	0	1	2	X
	40'	0	0	0	1	0	0	1	2	0	1	2	X	0	1	X	X
	42'	0	0	0	1	0	0	1	2	0	1	2	X	0	2	X	X
	26'	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
	28'	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	2
	30'	0	0	0	1	0	0	0	1	0	0	0	1	0	0	1	2
	32'	0	0	0	1	0	0	0	1	0	0	0	2	0	0	1	X
18"	34'	0	0	0	1	0	0	0	1	0	0	1	2	0	0	1	X
	36'	0	0	0	1	0	0	0	1	0	0	1	2	0	1	2	X
	38'	0	0	0	1	0	0	0	1	0	0	1	2	0	1	2	X
	40'	0	0	0	1	0	0	0	2	0	0	1	X	0	1	2	X
	42'	0	0	0	1	0	0	0	2	0	1	2	Χ	0	1	X	Χ

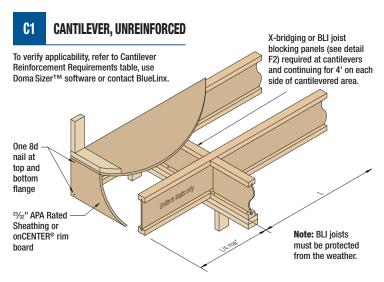
 $0 = no \ reinforcement \ required$

1 = reinforcement required one face

2 = reinforcement required both faces

X = joist will not work

Refer to details C1 through C4 on the following page for reinforcement information.

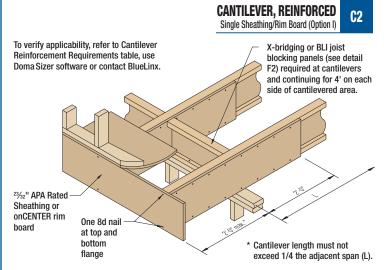


*Cantilever length must not exceed 1/4 the adjacent span (L). Nor may it exceed:

a) 2'-0" (if end of cantilever supports wall/roof loads)

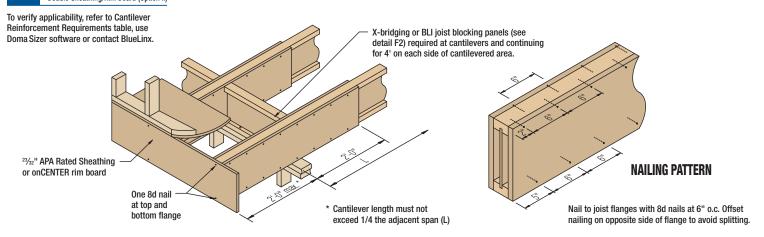
b) 4'-0" (if no loads are placed on end of cantilever)

For other conditions contact BlueLinx.

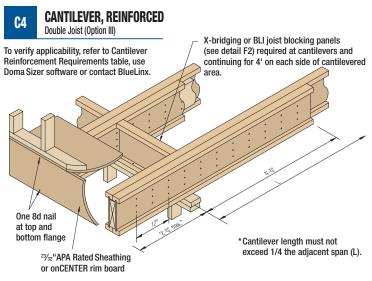


Note: onCENTER rim board or 48/24 APA Rated Sheathing (strength axis horizontal) required one side of joist. Depth must match full depth of joist. Nail to joist flanges with 8d nails at 6" o.c.

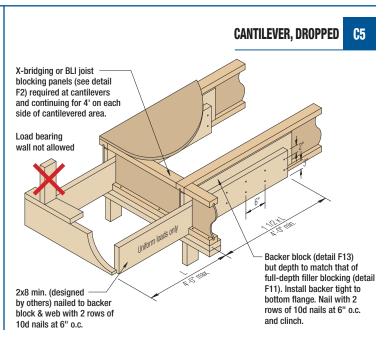
CANTILEVER, REINFORCED Double Sheathing/Rim Board (Option II)



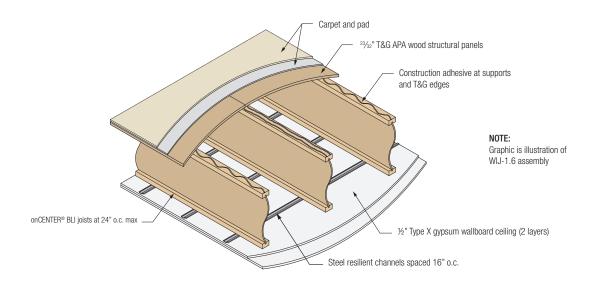
Note: onCENTER rim board or 48/24 APA Rated Sheathing (strength axis horizontal) required both sides of joist. Depth must match full depth of joist.



Note: Block together full length with full-depth filler blocking. See detail F11 for filler size, except filler must be one continuous length. For 9½" joists, use 2 rows of 10d nails at 12" o.c. from each side; for other depths, use 3 rows of 10d nails (16d for BLI 80, 90, and 900) at 12" o.c. from each side. Offset opposite side nailing by 6".



FIRE AND SOUND RATED ASSEMBLIES



One-Hour Fire-Rated Floor / Ceiling Assemblies 1

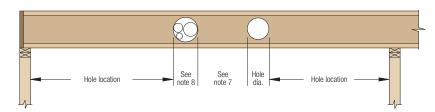
	BLI 80, 90, 900	BLI 90, 900	All BLI ²	All BLI ²	All BLI ²	All BLI ²	All BLI ²
Assembly Ref. (DCA 3 3)	WIJ-1.1	WIJ-1.2	WIJ-1.3	WIJ-1.4	WIJ-1.5	WIJ-1.6	WIJ-1.7
Ref. (IBC 4)	24-1.1	25-1.1	23-1.1		26-1.1	27-1.1	
Insulation	1½" mineral wool batts (2.5 pcf - nominal) resting on hat- shaped furring channels	1½" mineral wool batts (2.5 pcf - nominal) resting on resilient channels	2" mineral wool batts (3.5 pcf - nominal) resting on 1x4 setting strips (use 1x6 with joists having 3½" flanges)	1" mineral wool batts (6 pcf - nominal) resting on hat- shaped furring channels under I-joist bottom flange	(none)	(none)	3½" fiberglass insulation
Furring Channels	Hat-shaped	Resilient	Resilient	Hat-shaped supported by CSC clips		Resilient	Resilient
Ceiling GWB 5,6 (Base)					½" Type C	½" Type X	½" Type X
Drywall Screws					1" Type S @ 12" o.c.	1¼" Type S @ 12" o.c.	11/4" Type S @ 12" o.c.
Ceiling GWB 5 (Face)	5⁄8" Type C	5⁄8" Type C	5⁄8" Type C	½" Type C	½" Type C	½" Type X	½" Type X
Drywall Screws	11/ ₆ " Type S @ 12" o.c.	1" Type S @ 12" o.c.	11/6" Type S @ 7" o.c.	1" Type S @ 12" o.c.	15/8" Type S @ 12" o.c. 11/2" Type G @ 8" o.c.	15/8" Type S @ 12" o.c. 11/2" Type G @ 8" o.c.	1%" Type S @ 12" o.c. 1½" Type G @ 8" o.c.

Sound Attenuation 7

Flooring Material	STC	IIC												
W/out Gypsum Concrete														
Cushioned Vinyl	-	-	51	46	51	46	-	-	-	-	-	-	59	50
Carpet & Pad	-	-	51	64	52	66	46	68	-	-	54	68	55	68
With Gypsum Concrete 6,8														
Cushioned Vinyl	-	-	60	50	60	48	51	47	-	-	-	-	65	51
Carpet & Pad	49	59	60	65	60	60	50	73	49	55	58	55	63	65

- 1. This is a summary only, and is meant to assist the user in selecting an appropriate fire and sound rated assembly. For complete details, including a two-hour fire-rated assembly, see DCA 3³.

 2. BLI 40, 60, 80, 90, 700 and 900.
- 3. Design for Code Acceptance 3, published by the American Wood Council (http://www.awc.org/Publications/dca/dca3/DCA3.pdf).
- 4. International Building Code. Table 720.1(3) (2009), Table 721.1(3) (2012,2015).
- 5. Gypsum wallboard.
- 6. Dead load due to additional GWB and/or gypsum concrete must be considered, and the ability of the joists to support these extra loads must be verified.
- 7. Some STC and IIC ratings are estimates; see DCA 33 for more information.
- 8. Thickness per gypsum concrete manufacturer's recommendations.



Hole location is minimum distance from inside face of support to nearest edge of hole.

DO NOT cut or drill flanges.

Allowable Hole Location for all BLI Joists (Simple or Multiple Span)

Joist	Joist							Hole D	iameter						
Depth	Clear Span	2"	3"	4"	5"	61/4"	7"	8"	85/8"	9"	10"	10¾"	11"	12"	12¾"
	10'	0'-6''	0'-6''	0'-9''	1'-9''	3'-3''									
	12'	0'-6''	1'-3''	2'-3''	3'-3''	4'-6''									
91/2"	14'	0'-6''	1'-0''	2'-3''	3'-6''	5'-6''									
	16'	0'-6''	0'-6''	2'-0''	3'-6''	5'-9''									
	18'	0'-6''	0'-6''	0'-9''	2'-6''	5'-0''									
	12'	0'-6''	0'-6''	0'-9''	1'-0''	1'-9''	2'-6''	3'-9''	4'-6''						
	14'	0'-6''	0'-6''	0'-9''	1'-9''	3'-3''	4'-0''	5'-3''	6'-0''						
	16'	0'-6''	1'-3''	2'-3''	3'-3''	4'-6''	5'-6''	6'-6''	7'-6''						
11%"	18'	1'-6''	2'-6''	3'-6''	4'-6''	6'-0''	6'-9''	8'-0''							
	20'	0'-9''	2'-0''	3'-3''	4'-6''	6'-3''	7'-3''	8'-9''							
	22'	1'-6''	2'-9''	4'-0''	5'-6''	7'-3''	8'-3''	9'-9''							
	24'	0'-6''	1'-9''	3'-3''	4'-9''	7'-0''	8'-3''	10'-0''	11'-3''						
	14'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-6''	2'-6''	3'-3''	3'-9''	4'-9''	5'-9''			
	16'	0'-6''	0'-6''	0'-9''	1'-0''	2'-0''	2'-9''	4'-0''	4'-6''	5'-0''	6'-3''	7'-3''			
	18'	0'-6''	0'-6''	1'-0''	2'-0''	3'-3''	4'-3''	5'-3''	6'-0''	6'-6''	7'-9''				
14"	20'	0'-6''	0'-6''	0'-9''	1'-6''	3'-0''	4'-0''	5'-3''	6'-3''	6'-9''	8'-6''				
	22'	0'-6''	0'-6''	1'-6''	2'-9''	4'-3''	5'-6''	6'-9''	7'-9''	8'-3''	10'-0''				
	24'	0'-6''	1'-0''	2'-3''	3'-6''	5'-3''	6'-3''	7'-9''	8'-9''	9'-3''	10'-9''				
	26'	0'-6''	0'-6''	1'-0''	2'-6''	4'-6''	5'-9''	7'-6''	8'-6''	9'-3''	11'-3''				
	28'	0'-6''	0'-9''	2'-3''	3'-9''	5'-9''	7'-0''	8'-9''	10'-0''	10'-6''	12'-6''				
	14'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-0''	1'-0''	1'-3''	2'-6''	3'-3''	3'-6''	4'-9''	5'-6''
	16'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-6''	2'-3''	2'-9''	3'-9''	4'-6''	5'-0''	6'-3''	7'-0''
	18'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	2'-0''	3'-0''	3'-6''	4'-0''	5'-3''	6'-0''	6'-3''	7'-6''	
	20'	0'-6''	0'-6''	0'-9''	1'-3''	2'-6''	3'-3''	4'-3''	5'-0''	5'-6''	6'-6''	7'-6''	7'-9''	9'-0''	
16"	22'	0'-6''	0'-6''	0'-9''	1'-0''	1'-9''	2'-9''	4'-0''	4'-9''	5'-3''	6'-9''	7'-9''	8'-3''	9'-9''	
	24'	0'-6''	0'-6''	0'-9''	1'-6''	3'-0''	4'-0''	5'-3''	6'-0''	6'-9''	8'-0''	9'-3''	9'-9''	11'-3''	
	26'	0'-6''	0'-6''	0'-9''	2'-0''	3'-9''	4'-9''	6'-0''	7'-0''	7'-6''	9'-0''	10'-3''	10'-6''	12'-3''	
	28'	0'-6''	0'-6''	0'-9''	1'-0''	2'-6''	3'-6''	5'-3''	6'-3''	7'-0''	8'-9''	10'-3''	10'-9''	12'-9''	
	30'	0'-6''	0'-6''	0'-9''	1'-9''	3'-9''	5'-0''	6'-6''	7'-6''	8'-3''	10'-0''	11'-6''	11'-9''	13'-9''	
	32'	0'-6''	0'-6''	0'-9''	1'-0''	2'-3''	3'-6''	5'-6''	6'-9''	7'-6''	9'-6''	11'-0''	11'-6''	13'-9''	41.011
	16'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-0''	1'-0''	1'-0''	1'-6''	2'-3''	2'-6''	3'-6''	4'-6''
	18'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-0''	1'-0''	1'-6''	2'-6''	3'-3''	3'-9''	4'-9''	5'-9''
	20'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-9''	2'-3''	2'-9''	3'-9''	4'-9''	5'-0''	6'-3''	7'-3''
	22'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-0''	1'-6''	2'-0''	3'-6''	4'-6''	4'-9''	6'-3''	7'-6''
18"	24'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	2'-0''	3'-0''	3'-3''	4'-9''	5'-9''	6'-3''	7'-9''	8'-9''
	26'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	2'-0''	2'-9''	3'-3''	4'-9''	6'-0''	6'-3''	8'-0''	9'-3''
	28'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-3''	2'-3''	3'-0''	4'-9''	6'-0''	6'-6''	8'-3''	9'-9''
	30'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	2'-6''	3'-9''	4'-3''	6'-0''	7'-3''	7'-9''	9'-9''	11'-3''
	32'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-0''	1'-9''	2'-6''	4'-6''	6'-0''	6'-6''	8'-9''	10'-6''
	34'	0'-6''	0'-6''	0'-9''	1'-0''	1'-0''	1'-0''	1'-0''	2'-0''	2'-9''	4'-9''	6'-6''	7'-0''	9'-3''	11'-3''

NOTES:

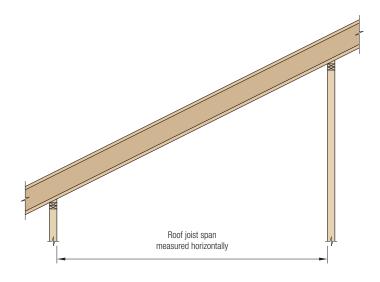
- Hole locations are based on uniform loads of 40 psf live and 10 or 20 psf dead, and worst case of simple or multiple spans from page 7.
- For joist clear spans between those shown, check minimum distance for both spans adjacent to that span, and use the larger distance. Example: 7" diameter hole in 16" joist clear spanning 21'-9". At 20', tabulated distance is 3'-3"; at 22', distance is 2'-9". Use 3'-3" as minimum distance.
- 3. For multiple span applications, use longest span to determine permissible hole locations in either span.
- 4. Holes may be placed vertically anywhere in web, but a minimum clearance of ½" must be maintained from flange.
- 5. To determine locations for rectangular holes, multiply longest side of rectangular hole by 1.33 and use table to find location for that round hole diameter. Then add (round hole diameter rectangular hole length) / 2. Example: for a rectangular hole 4" long and 6" high, the longest side is 6", so the round hole diameter to look up would be 1.33 x 6, or 8". Say the tabulated minimum distance for the 8" hole is 10'-0". Adding (8"- 4") / 2, or 2" gives a minimum distance of 10'-2" for the rectangular hole.
- 6. Small holes (1½" diameter and less) may be located anywhere in web if: A) Spaced a

- minimum horizontal clear distance of 2 diameters, but no less than 1", from any hole, B) No more than 2 small holes are placed next to each other and/or adjacent to larger holes, and C) Adjacent groups of small holes are spaced a minimum horizontal clear distance of 12".
- 7. Holes larger than 1½" diameter must meet the following requirements for minimum clear distance between holes: A) Two round holes 2 times the larger hole diameter.
 B) A rectangular hole and a round hole 2 times the hole diameter or 2 times the rectangular hole width, whichever is greater.
- Multiple round holes grouped closely together may be considered as a single hole circumscribing them.
- 9. For other conditions, or for more precise hole locations, use Doma Sizer $^{\text{TM}}$ software.

EXAMPLE:

Determine the allowable location for an 8" round hole in an 11%" BLI 60 joist spanning 17'-4". In the leftmost column locate the joist depth of 11%". In the next column, find both the 16' row and the 18' row. Following the 16' row across to the column for an 8" diameter hole yields a distance of 6'-6". The 18' row yields a distance of 8'-0". The larger distance controls, so 8'-0" is the minimum clear distance for an 8" round hole.

ROOF SPAN GENERAL NOTES



NOTES:

- 1. Allowable spans are based on the most restrictive of simple or multiple spans.
- 2. Dead load is calculated along the sloped length of the roof joist.
- 3. Per code, a live load reduction has been applied to 20 psf non-snow live loads for slopes of 8/12 through 12/12.
- 4. Maximum deflection is limited to L/240 live load and L/180 total load.
- 5. For multiple span joists, end spans must be at least 40% of adjacent span.
- 6. Minimum bearing length: 1¾" (end), 3½" (intermediate).
- 7. A minimum slope of 0.25/12 is required for BLI joists used in roof applications.
- Tabulated spans for multiple-span conditions cover a wide range of span combinations. Neither simple nor multiple spans require bearing stiffeners. Longer spans may be possible by analyzing a specific span condition and/or by adding bearing stiffeners. Check using Doma Sizer™ software.
- For loading other than shown below, refer to the Roof Load Table on page 26, use Doma Sizer software, or contact BlueLinx Engineered Lumber Technical Services

ROOF SPAN TABLES (SNOW)

31 5%

Load	Joist	Joist		Slope ≤ 4/12		4/12 < Slope ≤ 8/12			8/12 < Slope ≤ 12/12		
(psf)	Series	Depth	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.
		91/2"	21'-01"	19'-05"	17'-04"	19'-10"	18'-08"	16'-11"	18'-05"	17'-03"	16'-00"
	BLI 40	11%"	24'-03"	22'-02"	19'-09"	23'-07"	21'-07"	19'-03"	22'-00"	20'-08"	18'-07"
	DLI 40	14"	26'-08"	24'-04"	21'-09"	25'-11"	23'-08"	21'-02"	25'-00"	22'-10"	20'-05"
		16"	28'-09"	26'-02"	23'-05"	27'-11"	25'-06"	22'-09"	27'-00"	24'-07"	22'-00"
		11%"	26'-10"	25'-02"	23'-03"	25'-03"	23'-09"	22'-00"	23'-05"	22'-00"	20'-04"
	BLI 60	14"	30'-07"	28'-07"	25'-07"	28'-10"	27'-01"	24'-11"	26'-08"	25'-01"	23'-03"
	DLI 00	16"	33'-09"	30'-10"	27'-06"	32'-00"	30'-00"	26'-10"	29'-08"	27'-10"	25'-09"
		18"	36'-04"	33'-02"	28'-06"	35'-00"	32'-03"	28'-10"	32'-05"	30'-06"	27'-10"
	BLI 80	11%"	29'-10"	28'-00"	25'-11"	28'-01"	26'-05"	24'-05"	26'-01"	24'-06"	22'-08"
		14"	33'-11"	31'-10"	29'-06"	32'-00"	30'-00"	27'-10"	29'-08"	27'-10"	25'-09"
25 Live		16"	37'-08"	35'-04"	32'-09"	35'-06"	33'-04"	30'-10"	32'-10"	30'-11"	28'-07"
15 Dead		18"	41'-01"	38'-07"	35'-00"	38'-08"	36'-04"	33'-03"	35'-10"	33'-08"	31'-00"
		11%"	30'-09"	28'-11"	26'-09"	29'-00"	27'-03"	25'-03"	26'-11"	25'-03"	23'-05"
	BLI 90	14"	35'-00"	32'-10"	30'-05"	32'-11"	30'-11"	28'-08"	30'-06"	28'-08"	26'-07"
	DLI 90	16"	38'-08"	36'-04"	33'-08"	36'-06"	34'-03"	31'-09"	33'-09"	31'-09"	29'-05"
		18"	42'-04"	39'-09"	35'-01"	39'-10"	37'-05"	33'-03"	36'-11"	34'-08"	31'-00"
		11%"	27'-04"	25'-08"	23'-09"	25'-09"	24'-02"	22'-05"	23'-10"	22'-05"	20'-09"
	BLI 700	14"	31'-01"	29'-02"	27'-00"	29'-03"	27'-06"	25'-05"	27'-01"	25'-06"	23'-07"
		16"	34'-07"	32'-05"	28'-01"	32'-06"	30'-07"	28'-04"	30'-02"	28'-04"	26'-03"
		11%"	31'-09"	29'-10"	27'-07"	29'-11"	28'-01"	26'-00"	27'-09"	26'-01"	24'-01"
	BLI 900	14"	36'-01"	33'-10"	31'-04"	34'-00"	31'-11"	29'-07"	31'-06"	29'-07"	27'-05"
	22.000	16"	39'-11"	37'-06"	34'-09"	37'-08"	35'-04"	32'-09"	34'-10"	32'-09"	30'-04"

Refer to General Notes above.

ROOF SPAN TABLES (SNOW)



Load	Joist	Joist		Slope ≤ 4/12		4/1	2 < Slope ≤ 8	3/12	8/12 < Slope ≤ 12/12			
(psf)	Series	Depth	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	
		9½"	20'-01"	18'-04"	16'-04"	19'-01"	17'-11"	16'-00"	17'-09"	16'-08"	15'-05"	
	D	111//8"	22'-11"	20'-11"	18'-08"	22'-04"	20'-05"	18'-02"	21'-03"	19'-09"	17'-08"	
	BLI 40	14"	25'-02"	22'-11"	20'-06"	24'-07"	22'-05"	20'-00"	23'-09"	21'-08"	19'-04"	
		16"	27'-01"	24'-08"	22'-01"	26'-05"	24'-02"	21'-07"	25'-07"	23'-04"	20'-10"	
		117/8"	25'-09"	24'-02"	22'-00"	24'-04"	22'-10"	21'-02"	22'-07"	21'-03"	19'-08"	
		14"	29'-05"	27'-00"	24'-01"	27'-09"	26'-01"	23'-07"	25'-09"	24'-02"	22'-05"	
	BLI 60	16"	31'-10"	29'-01"	25'-04"	30'-10"	28'-05"	25'-04"	28'-07"	26'-11"	24'-07"	
		18"	34'-03"	31'-03"	25'-04"	33'-06"	30'-06"	26'-03"	31'-04"	29'-05"	26'-05"	
		11%"	28'-08"	26'-11"	24'-11"	27'-01"	25'-05"	23'-06"	25'-02"	23'-07"	21'-10"	
	D	14"	32'-07"	30'-07"	28'-04"	30'-10"	28'-11"	26'-09"	28'-07"	26'-10"	24'-11"	
30 Live	BLI 80	16"	36'-02"	34'-00"	30'-08"	34'-02"	32'-01"	29'-08"	31'-09"	29'-10"	27'-07"	
15 Dead		18"	39'-06"	36'-11"	31'-03"	37'-03"	35'-00"	29'-09"	34'-07"	32'-06"	27'-11"	
		117/8"	29'-07"	27'-09"	25'-08"	27'-11"	26'-03"	24'-03"	25'-11"	24'-04"	22'-07"	
	B	14"	33'-07"	31'-06"	29'-02"	31'-09"	29'-09"	27'-07"	29'-06"	27'-08"	25'-07"	
	BLI 90	16"	37'-02"	34'-11"	32'-00"	35'-01"	33'-00"	30'-06"	32'-07"	30'-08"	28'-04"	
		18"	40'-08"	38'-02"	31'-03"	38'-05"	36'-01"	29'-09"	35'-08"	33'-06"	27'-11"	
		117/8"	26'-03"	24'-08"	22'-10"	24'-10"	23'-04"	21'-07"	23'-00"	21'-08"	20'-00"	
	BLI 700	14"	29'-10"	28'-00"	24'-11"	28'-02"	26'-06"	24'-06"	26'-02"	24'-07"	22'-09"	
		16"	33'-02"	31'-02"	24'-11"	31'-04"	29'-05"	25'-10"	29'-01"	27'-04"	25'-04"	
		111//8"	30'-06"	28'-08"	26'-06"	28'-10"	27'-01"	25'-00"	26'-09"	25'-02"	23'-03"	
	BLI 900	14"	34'-08"	32'-07"	30'-01"	32'-09"	30'-09"	28'-05"	30'-05"	28'-07"	26'-05"	
		16"	38'-05"	36'-00"	33'-04"	36'-03"	34'-00"	31'-06"	33'-08"	31'-07"	29'-03"	
		91/2"	18'-02"	16'-07"	14'-10"	17'-10"	16'-03"	14'-06"	16'-08"	15'-08"	14'-01"	
	BLI 40	111%"	20'-09"	18'-11"	16'-10"	20'-04"	18'-06"	16'-07"	19'-09"	18'-00"	16'-01"	
	DLI 40	14"	22'-09"	20'-09"	18'-06"	22'-04"	20'-04"	18'-02"	21'-09"	19'-10"	17'-08"	
		16"	24'-06"	22'-04"	20'-00"	24'-01"	21'-11"	19'-07"	23'-05"	21'-04"	19'-01"	
		111%"	24'-01"	22'-03"	19'-11"	22'-10"	21'-05"	19'-06"	21'-03"	20'-00"	18'-06"	
	BLI 60	14"	26'-09"	24'-05"	20'-08"	26'-00"	23'-11"	21'-05"	24'-03"	22'-09"	20'-10"	
	DLI 00	16"	28'-10"	25'-11"	20'-08"	28'-03"	25'-10"	21'-06"	26'-11"	25'-01"	22'-05"	
		18"	31'-00"	25'-11"	20'-08"	30'-05"	26'-11"	21'-06"	29'-06"	27'-00"	23'-04"	
		11%"	26'-09"	25'-02"	22'-10"	25'-04"	23'-10"	22'-00"	23'-08"	22'-03"	20'-07"	
	BLI 80	14"	30'-06"	28'-07"	25'-00"	28'-10"	27'-01"	25'-01"	26'-11"	25'-03"	23'-05"	
40 Live	DLI 00	16"	33'-10"	31'-04"	25'-00"	32'-00"	30'-01"	25'-03"	29'-10"	28'-00"	23'-11"	
15 Dead		18"	36'-08"	32'-01"	25'-07"	34'-11"	30'-10"	24'-08"	32'-07"	29'-03"	23'-04"	
		11%"	27'-07"	25'-11"	22'-10"	26'-02"	24'-07"	22'-09"	24'-05"	22'-11"	21'-02"	
	BLI 90	14"	31'-04"	29'-05"	25'-00"	29'-09"	27'-11"	25'-03"	27'-09"	26'-00"	23'-11"	
	DEI 30	16"	34'-09"	32'-07"	26'-03"	32'-11"	30'-11"	25'-03"	30'-08"	28'-10"	23'-11"	
		18"	38'-00"	32'-01"	25'-07"	35'-11"	30'-10"	24'-08"	33'-06"	29'-03"	23'-04"	
		1111/%"	24'-07"	23'-00"	20'-04"	23'-03"	21'-10"	20'-02"	21'-08"	20'-04"	18'-10"	
	BLI 700	14"	27'-11"	25'-06"	20'-04"	26'-05"	24'-09"	21'-02"	24'-07"	23'-01"	21'-05"	
		16"	30'-08"	25'-06"	20'-04"	29'-04"	26'-06"	21'-02"	27'-05"	25'-09"	21'-08"	
		111//8"	28'-06"	26'-09"	24'-09"	27'-00"	25'-04"	23'-05"	25'-02"	23'-08"	21'-11"	
	BLI 900	14"	32'-04"	30'-05"	27'-10"	30'-08"	28'-09"	26'-08"	28'-07"	26'-10"	24'-10"	
		16"	35'-10"	33'-08"	27'-10"	33'-11"	31'-10"	27'-07"	31'-08"	29'-09"	26'-02"	

Refer to General Notes on page 22.

ROOF SPAN TABLES (SNOW & NON-SNOW)

Load	Joist	Joist		Slope ≤ 4/12		4/1	2 < Slope ≤ 8	3/12	8/12 < Slope ≤ 12/12			
(psf)	Series	Depth	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	
		9½"	16'-09"	15'-03"	13'-07"	16'-05"	15'-00"	13'-05"	15'-10"	14'-08"	13'-01"	
	DI 1 40	111//8"	19'-01"	17'-05"	15'-06"	18'-09"	17'-01"	15'-03"	18'-04"	16'-08"	14'-11"	
	BLI 40	14"	20'-11"	19'-01"	17'-01"	20'-07"	18'-09"	16'-09"	20'-01"	18'-04"	16'-05"	
		16"	22'-07"	20'-07"	17'-06"	22'-02"	20'-03"	18'-01"	21'-08"	19'-09"	17'-08"	
		111//8"	22'-05"	20'-06"	17'-06"	21'-07"	20'-02"	18'-00"	20'-02"	18'-11"	17'-06"	
	DI LOG	14"	24'-08"	21'-11"	17'-06"	24'-03"	22'-01"	18'-02"	23'-00"	21'-07"	19'-03"	
	BLI 60	16"	26'-04"	21'-11"	17'-06"	26'-01"	22'-10"	18'-02"	25'-06"	23'-03"	19'-03"	
		18"	26'-04"	21'-11"	17'-06"	27'-05"	22'-10"	18'-02"	27'-05"	25'-00"	20'-00"	
		11%"	25'-02"	23'-07"	19'-04"	24'-00"	22'-06"	20'-01"	22'-05"	21'-01"	19'-06"	
	DLLOO	14"	28'-08"	26'-06"	21'-02"	27'-04"	25'-08"	21'-06"	25'-06"	24'-00"	20'-06"	
50 Live	BLI 80	16"	31'-08"	26'-06"	21'-02"	30'-04"	26'-11"	21'-06"	28'-04"	25'-08"	20'-06"	
(115%) 15 Dead		18"	32'-07"	27'-02"	21'-08"	31'-07"	26'-03"	21'-00"	30'-02"	25'-01"	20'-00"	
		11%"	25'-11"	24'-02"	19'-04"	24'-09"	23'-03"	20'-01"	23'-02"	21'-09"	20'-01"	
	BLI 90	14"	29'-06"	26'-06"	21'-02"	28'-01"	26'-05"	21'-06"	26'-04"	24'-08"	20'-06"	
	DLI 90	16"	32'-08"	27'-10"	22'-03"	31'-02"	26'-11"	21'-06"	29'-01"	25'-08"	20'-06"	
		18"	32'-07"	27'-02"	21'-08"	31'-07"	26'-03"	21'-00"	30'-02"	25'-01"	20'-00"	
		111//8"	23'-01"	21'-07"	17'-02"	22'-00"	20'-08"	17'-11"	20'-07"	19'-04"	17'-10"	
	BLI 700	14"	25'-11"	21'-07"	17'-02"	25'-00"	22'-05"	17'-11"	23'-04"	21'-11"	18'-07"	
		16"	25'-11"	21'-07"	17'-02"	27'-00"	22'-05"	17'-11"	26'-00"	23'-03"	18'-07"	
		11%"	26'-09"	25'-01"	23'-02"	25'-07"	24'-00"	22'-02"	23'-11"	22'-05"	20'-09"	
	BLI 900	14"	30'-05"	28'-06"	23'-06"	29'-00"	27'-03"	23'-06"	27'-02"	25'-06"	22'-06"	
		16"	33'-08"	29'-06"	23'-06"	32'-02"	29'-05"	23'-06"	30'-01"	28'-01"	22'-06"	
		91/2"	23'-04"	21'-11"	20'-03"	22'-00"	20'-08"	19'-01"	21'-03"	20'-00"	18'-06"	
	BLI 40	111%"	27'-11"	26'-03"	23'-10"	26'-04"	24'-09"	22'-11"	25'-06"	23'-11"	22'-02"	
	DE1 10	14"	31'-08"	29'-04"	26'-03"	29'-11"	28'-01"	25'-07"	28'-11"	27'-02"	25'-03"	
		16"	34'-08"	31'-07"	28'-03"	33'-02"	30'-10"	27'-07"	32'-01"	30'-02"	28'-00"	
		11%"	29'-08"	27'-10"	25'-09"	28'-00"	26'-03"	24'-04"	27'-01"	25'-05"	23'-07"	
	BLI 60	14"	33'-09"	31'-09"	29'-05"	31'-10"	29'-11"	27'-09"	30'-10"	29'-00"	26'-10"	
		16"	37'-06"	35'-03"	32'-08"	35'-05"	33'-03"	30'-10"	34'-03"	32'-03"	29'-10"	
		18"	41'-01"	38'-07"	35'-09"	38'-09"	36'-05"	33'-09"	37'-06"	35'-03"	32'-08"	
		11%"	33'-00"	31'-00"	28'-08"	31'-01"	29'-03"	27'-01"	30'-02"	28'-04"	26'-03"	
20 Live	BLI 80	14"	37'-06"	35'-03"	32'-07"	35'-05"	33'-03"	30'-10"	34'-03"	32'-03"	29'-10"	
(125%)		16"	41'-07"	39'-01"	36'-02"	39'-03"	36'-11"	34'-02"	38'-00"	35'-09"	33'-01"	
10 Dead		18"	45'-04"	42'-07"	39'-06"	42'-10"	40'-03"	37'-03"	41'-05"	39'-00"	36'-01"	
		11%"	34'-00"	31'-11"	29'-07"	32'-01"	30'-02"	27'-11"	31'-01"	29'-03" 33'-02"	27'-01"	
	BLI 90	14"	38'-08"	36'-03"	33'-07"	36'-05"	34'-03"	31'-09"	35'-04"		30'-09"	
		16" 18"	42'-09" 46'-09"	40'-02" 43'-11"	37'-02" 40'-08"	40'-04" 44'-01"	37'-11" 41'-05"	35'-01" 38'-05"	39'-01" 42'-09"	36'-09" 40'-02"	34'-00" 37'-02"	
		1111/%"	30'-03"	28'-05"	40 -08 26'-03"	28'-06"	26'-09"	38 -05 24'-10"	42 -09 27'-07"	40 -02 25'-11"	24'-01"	
	BLI 700	14"	34'-04"	32'-03"	29'-10"	32'-04"	30'-05"	28'-02"	31'-04"	29'-06"	27'-04"	
	DLI 700	16"	38'-02"	35'-10"	33'-02"	36'-00"	33'-10"	31'-04"	34'-10"	32'-09"	30'-04"	
		117%"	35'-01"	33'-00"	30'-06"	33'-02"	31'-01"	28'-10"	32'-01"	30'-02"	27'-11"	
	BLI 900	14"	39'-10"	37'-05"	34'-08"	37'-07"	35'-04"	32'-09"	36'-05"	34'-03"	31'-09"	
	DEI 000	16"	44'-02"	41'-05"	38'-05"	41'-08"	39'-02"	36'-03"	40'-04"	37'-11"	35'-02"	
		10	11 02	11 00	00 00	11 00	00 02	00 00	10 07	07 11	00 02	

Refer to General Notes on page 22.

ROOF SPAN TABLES (NON-SNOW)



Load	Joist	Joist		Slope ≤ 4/12		4/1	2 < Slope ≤ 8	3/12	8/12 < Slope ≤ 12/12			
(psf)	Series	Depth	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	16" o.c.	19.2" o.c.	24" o.c.	
		9½"	22'-01"	20'-09"	19'-02"	20'-09"	19'-06"	18'-00"	19'-10"	18'-07"	17'-03"	
		111//8"	26'-05"	24'-08"	22'-00"	24'-10"	23'-04"	21'-04"	23'-09"	22'-03"	20'-08"	
	BLI 40	14"	29'-08"	27'-01"	24'-02"	28'-02"	26'-03"	23'-06"	26'-11"	25'-04"	23'-06"	
		16"	32'-00"	29'-02"	26'-01"	31'-00"	28'-04"	25'-04"	29'-11"	28'-01"	25'-07"	
		111//8"	28'-01"	26'-04"	24'-05"	26'-04"	24'-09"	22'-11"	25'-02"	23'-08"	21'-11"	
		14"	32'-00"	30'-00"	27'-10"	30'-00"	28'-03"	26'-02"	28'-09"	27'-00"	25'-00"	
	BLI 60	16"	35'-06"	33'-04"	30'-08"	33'-04"	31'-04"	29'-00"	31'-11"	30'-00"	27'-09"	
		18"	38'-11"	36'-06"	33'-00"	36'-06"	34'-04"	31'-10"	34'-11"	32'-10"	30'-05"	
		111//8"	31'-03"	29'-04"	27'-02"	29'-04"	27'-07"	25'-06"	28'-01"	26'-04"	24'-05"	
		14"	35'-06"	33'-04"	30'-10"	33'-04"	31'-04"	29'-00"	31'-11"	30'-00"	27'-09"	
20 Live	BLI 80	16"	39'-05"	37'-00"	34'-03"	37'-00"	34'-09"	32'-02"	35'-05"	33'-03"	30'-10"	
15 Dead		18"	42'-11"	40'-04"	37'-04"	40'-04"	37'-11"	35'-01"	38'-07"	36'-03"	33'-07"	
		111//8"	32'-03"	30'-03"	28'-00"	30'-03"	28'-05"	26'-04"	28'-11"	27'-02"	25'-02"	
		14"	36'-07"	34'-04"	31'-09"	34'-04"	32'-03"	29'-11"	32'-10"	30'-11"	28'-07"	
	BLI 90	16"	40'-06"	38'-00"	35'-02"	38'-01"	35'-09"	33'-01"	36'-05"	34'-02"	31'-08"	
		18"	44'-03"	41'-07"	38'-06"	41'-07"	39'-01"	36'-02"	39'-09"	37'-04"	34'-07"	
		111//8"	28'-07"	26'-10"	24'-11"	26'-11"	25'-03"	23'-05"	25'-08"	24'-02"	22'-04"	
	BLI 700	14"	32'-06"	30'-06"	28'-03"	30'-06"	28'-08"	26'-07"	29'-02"	27'-05"	25'-05"	
		16"	36'-02"	33'-11"	31'-05"	33'-11"	31'-11"	29'-06"	32'-05"	30'-06"	28'-03"	
		117/8"	33'-03"	31'-02"	28'-11"	31'-03"	29'-04"	27'-02"	29'-10"	28'-01"	26'-00"	
	BLI 900	14"	37'-09"	35'-05"	32'-10"	35'-06"	33'-04"	30'-10"	33'-11"	31'-10"	29'-06"	
		16"	41'-09"	39'-03"	36'-04"	39'-03"	36'-11"	34'-02"	37'-07"	35'-03"	32'-08"	
		91/2"	21'-00"	19'-09"	18'-00"	19'-08"	18'-06"	17'-02"	18'-08"	17'-06"	16'-03"	
	DI 1 40	111//8"	25'-02"	23'-00"	20'-07"	23'-07"	22'-02"	19'-10"	22'-04"	21'-00"	19'-05"	
	BLI 40	14"	27'-08"	25'-03"	22'-07"	26'-09"	24'-05"	21'-10"	25'-05"	23'-10"	21'-09"	
		16"	29'-10"	27'-03"	24'-04"	28'-10"	26'-03"	23'-06"	28'-02"	26'-03"	23'-05"	
		111//8"	26'-09"	25'-02"	23'-03"	25'-01"	23'-07"	21'-10"	23'-09"	22'-04"	20'-08"	
	DI I CO	14"	30'-06"	28'-08"	26'-06"	28'-07"	26'-10"	24'-10"	27'-01"	25'-05"	23'-07"	
	BLI 60	16"	33'-11"	31'-10"	28'-07"	31'-09"	29'-10"	27'-07"	30'-01"	28'-03"	26'-02"	
		18"	37'-01"	34'-05"	30'-09"	34'-09"	32'-08"	29'-09"	32'-11"	30'-11"	28'-08"	
		1111/8"	29'-09"	27'-11"	25'-10"	27'-11"	26'-02"	24'-03"	26'-05"	24'-10"	23'-00"	
	BLI 80	14"	33'-10"	31'-10"	29'-05"	31'-09"	29'-10"	27'-07"	30'-01"	28'-03"	26'-02"	
20 Live	DLI OU	16"	37'-07"	35'-03"	32'-08"	35'-02"	33'-01"	30'-07"	33'-04"	31'-04"	29'-00"	
20 Dead		18"	41'-00"	38'-06"	35'-07"	38'-05"	36'-01"	33'-05"	36'-04"	34'-02"	31'-08"	
		111//8"	30'-09"	28'-10"	26'-08"	28'-09"	27'-00"	25'-00"	27'-03"	25'-07"	23'-09"	
	BLI 90	14"	34'-11"	32'-09"	30'-04"	32'-08"	30'-08"	28'-05"	31'-00"	29'-01"	26'-11"	
	DLI 90	16"	38'-07"	36'-03"	33'-07"	36'-02"	34'-00"	31'-05"	34'-03"	32'-02"	29'-10"	
		18"	42'-02"	39'-08"	36'-08"	39'-06"	37'-02"	34'-05"	37'-06"	35'-02"	32'-07"	
		1111/8"	27'-04"	25'-08"	23'-09"	25'-07"	24'-00"	22'-03"	24'-03"	22'-09"	21'-01"	
	BLI 700	14"	31'-00"	29'-01"	26'-11"	29'-00"	27'-03"	25'-03"	27'-06"	25'-10"	23'-11"	
		16"	34'-06"	32'-04"	30'-00"	32'-03"	30'-04"	28'-01"	30'-07"	28'-09"	26'-07"	
		111//8"	31'-08"	29'-09"	27'-06"	29'-08"	27'-11"	25'-10"	28'-02"	26'-05"	24'-06"	
	BLI 900	14"	36'-00"	33'-10"	31'-03"	33'-09"	31'-08"	29'-04"	32'-00"	30'-00"	27'-10"	
		16"	39'-10"	37'-05"	34'-08"	37'-04"	35'-01"	32'-06"	35'-05"	33'-03"	30'-09"	

Refer to General Notes on page 22.

Joist	Joist	Load Type /	Clear Span																				
Series	Depth	Deflection	6'	7'	8'	9'	10¹	111	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'
		Live L/240										113	94	79	67	57	49	43	37	33	29	26	23
	91/2"	Total 115%	329	281	246	218	196	178	164	144	124	108	95	84	75	68	61	55	50	44	39	34	31
		Total 125%	357	306	267	237	213	194	178	156	135	118	103	92	82	74	66	57	50	44	39	34	31
		Live L/240															83	73	63	56	49	44	39
	11%"	Total 115%	384	328	286	254	228	207	190	175	161	140	123	110	98	88	79	72	66	60	55	51	47
BLI 40		125%	417	356	311	276	248	225	206	190	175	153	134	119	106	95	86	78	71	65	60	55	51
		Live L/240																			71	63	57
	14"	Total 115%	387	330	287	255	229	208	190	176	163	152	142	132	118	106	96	87	79	72	66	61	57
		125%	420	358	312	277	249	226	207	191	177	165	155	144	128	115	104	94	86	79	72	67	62
	16"	Live L/240	389	332	289	256	230	208	191	176	163	152	143	134	127	120	111	101	92	84	77	71	66
	10	Total 125%	423	360	314	278	250	227	207	191	178	166	155	146	138	130	121	109	100	91	84	77	72
		Live L/240	120	000	011	210	200	LLI	201	101	170	100	100	110	133	114	99	86	75	66	59	52	46
	11%"	_ 115%	386	329	287	255	229	208	190	176	163	152	142	134	127	120	110	100	91	83	76	70	62
		Total 125%	420	358	312	277	249	226	207	191	177	165	155	146	138	130	119	108	99	89	78	70	62
		Live L/240																	110	97	86	76	68
	14"	115%	389	332	289	256	230	209	191	176	163	152	143	134	127	120	114	109	104	99	92	85	78
BLI 60		Total 125%	423	361	314	278	250	227	208	191	178	166	155	146	138	130	124	118	113	108	100	92	85
DLI 00		Live L/240																					92
	16"	Total 115%	392	334	290	257	231	209	191	176	164	153	143	134	127	120	114	109	104	99	95	91	88
		125%	427	363	316	280	251	227	208	192	178	166	155	146	138	131	124	118	113	108	103	99	95
	400	Live L/240	005	000	000	050	000	0.4.0	400	477	101	450	4.40	405	407	400		400	404	00	0.5	0.4	0.0
	18"	Total	395	336	292	258	232	210	192	177	164	153	143	135	127	120	114	109	104	99	95	91	88
		125% Live L/240	429	365	317	281	252	228	209	192	178	166	156	146	138	131	124 133	118	113	108	103	99 71	95 63
	11%"	115%	432	367	320	283	254	231	211	195	181	168	158	148	140	133	126	120	114	109	105	95	85
	11/0	Total 125%	469	399	348	308	276	251	230	212	196	183	172	161	152	144	137	130	124	119	106	95	85
		Live L/240	100	000	0.0	000	2.0	201	200	2.2	100	100			102			100		129	115	102	92
	14"	115%	477	406	353	312	280	254	232	214	198	185	173	163	154	145	138	131	125	120	115	110	106
DI LOO		Total 125%	519	441	383	339	304	276	252	232	215	201	188	177	167	158	150	143	136	130	125	120	115
BLI 80		Live L/240																					
	16"	Total 115%	479	409	355	314	281	255	233	214	199	185	173	163	154	146	138	132	126	120	115	110	106
		125%	520	444	386	341	306	277	253	233	216	201	189	177	167	158	150	143	137	131	125	120	115
		Live L/240																					
	18"	Total 105%	467	402	352	314	283	257	236	218	203	189	178	167	158	150	142	135	129	123	118	113	109
		125% Live L/240	508	437	383	341	308	280	257	237	220	206	193	182	172	163	155	147	140	134	129	123	119
	11%"	115%	433	369	321	284	255	231	211	195	181	169	158	149	140	133	126	126 120	111	98	87 105	77 101	69 92
	11/8	Total 125%	471	401	349	309	277	251	230	212	197				152		137	130		119	114	103	92
		Live L/240	., .	101	0 10	000	211	201	200	LIL	101	100	172	101	102		101	100	120	110	124	111	99
	14"		479	407	354	313	280	254	232	214	198	185	173	163	154	146	138	132	126	120	115	110	106
DI LOO		Total 115% 125%	520	442	385	340	305	276	253	233	216	201	188	177	167	158	150	143	136	131	125	120	115
BLI 90		Live L/240																					
	16"	Total 115% 125%	479	411	361	321	290	264	242	223	208	194	182	171	162	153	146	139	132	127	121	117	112
		125%	520	447	392	349	315	287	263	243	226	211	198	186	176	167	158	151	144	138	132	127	122
		Live L/240																					
	18"	Total 115% 125%	467	402	352	314	283	257	236	218	203	189	178	167	158	150	142	135	129	124	119	114	109
		125%	508	437	383	341	308	280	257	237	220	206	193	182	172	163	155	147	141	135	129	124	119

NOTES:

- 1. Refer to General Notes on page 9.
- 2. A minimum slope of 0.25/12 is required for BLI joists used in roof applications.
- 3. For slopes over 2/12, horizontal span length must be converted to an up-the-slope span length using the slope factors found on page 30.
- 4. Maximum total load deflection is limited to L/180.

BL

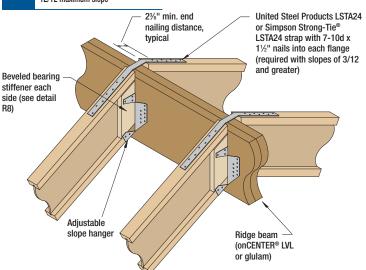
ROOF LOAD TABLE (PLF)

Joist	Joist	Load Type /										C	lear Spa	an									
Joist Series	Depth	Deflection	6'	7'	8'	9'	10¹	11 ¹	12'	13¹	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'
	11%"	Live L/240														121	105	91	80	70	62	55	49
		Total 115%	381	325	283	251	225	205	187	173	160	150	140	132	125	118	112	107	102	94	83	74	66
		125%	414	353	308	273	245	222	204	188	174	163	152	143	135	128	122	116	106	94	83	74	66
		Live L/240																		101	90	80	71
BLI 700	14"	Total 115%	384	327	285	252	226	205	188	173	161	150	140	132	125	118	112	107	102	97	93	90	86
		125%	417	355	309	274	246	223	204	188	175	163	153	144	136	128	122	116	111	106	102	97	94
		Live L/240																					
	16"	Total 115%	387	329	286	253	227	206	189	174	161	150	141	132	125	118	112	107	102	98	93	90	86
		125%	421	358	311	275	247	224	205	189	175	163	153	144	136	129	122	116	111	106	102	98	94
		Live L/240															157	138	121	107	95	84	76
	111%"	Total 115%	523	450	391	346	311	282	258	237	220	205	192	181	171	162	153	146	139	133	127	113	101
		125%	569	489	426	377	338	306	280	258	239	223	209	197	186	176	167	159	152	143	127	113	101
		Live L/240																			136	121	108
BLI 900	14"	Total 115%	523	450	395	349	312	283	259	238	221	206	193	181	171	162	154	146	140	133	128	123	118
		125%	569	489	429	379	340	308	281	259	240	224	210	197	186	176	167	159	152	145	139	133	128
		Live L/240																					
	16"	Total 115%	523	450	395	351	314	284	260	239	222	207	193	182	171	162	154	147	140	134	128	123	118
		125%	569	489	429	381	342	309	283	260	241	225	210	198	186	176	167	159	152	145	139	134	128

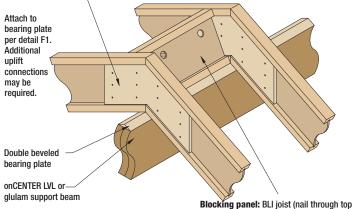
NOTES:

- 1. Refer to General Notes on page 9.
- 2. A minimum slope of 0.25/12 is required for BLI joists used in roof applications.
- 3. For slopes over 2/12, horizontal span length must be converted to an up-the-slope span length using the slope factors found on page 30.
- 4. Maximum total load deflection is limited to L/180.

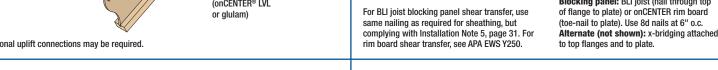
12/12 maximum slope



 $^{23}\!\!/_{32}$ " x 2'-0" 48/24 APA Rated Sheathing gusset (strength axis horizontal) each side with 12-8d nails clinched or strap with 16-10d x 11/2" nails applied to top flange per detail R1.



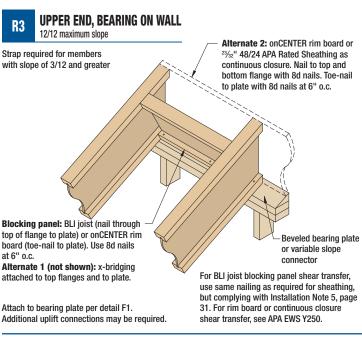
Additional uplift connections may be required.

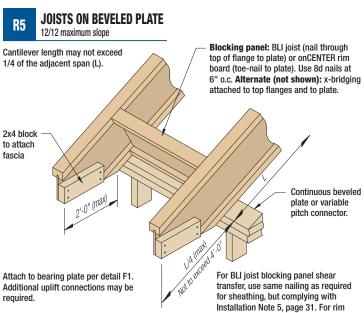




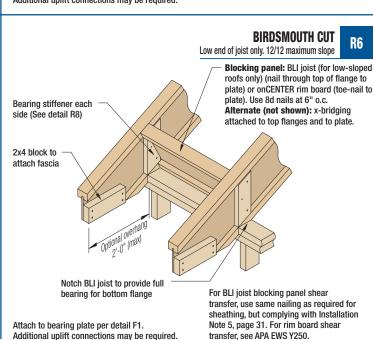
12/12 maximum slope

Backer block and twist strap required when slope is 3/12 and greater. Beveled bearing plate Attach to bearing plate per detail F1. Additional uplift connections may be required.

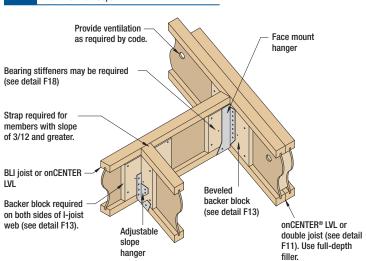




board shear transfer, see APA EWS Y250.

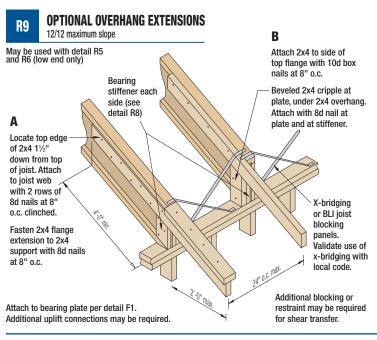


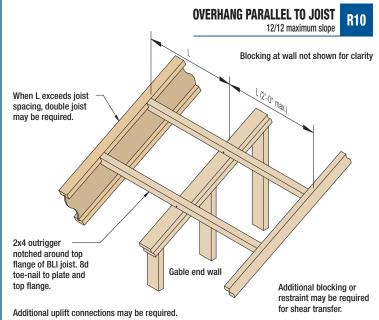
transfer, see APA EWS Y250.



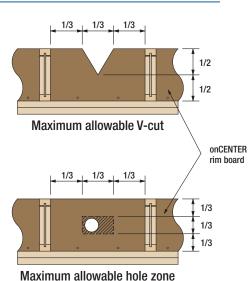
Bevel cut bearing stiffeners to match roof slope. See detail F18 for attachment information.

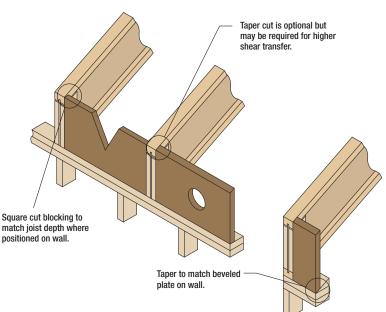
Additional uplift connections may be required.





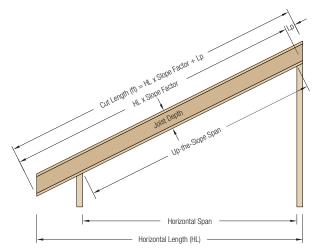






ROOF SLOPE FACTORS & PLUMB CUT INCREASES

	Slope (/12) & Slope Factor												
	21/2	3	3½	4	41/2	5	6	7	8	9	10	11	12
	1.021	1.031	1.042	1.054	1.068	1.083	1.118	1.158	1.202	1.250	1.302	1.357	1.414
Joist Depth					Amount	to Increase	Length for P	lumb Cut (L	p in feet)				
91/2"	0.165	0.198	0.231	0.264	0.297	0.330	0.396	0.462	0.528	0.594	0.660	0.726	0.792
1111/8"	0.206	0.247	0.289	0.330	0.371	0.412	0.495	0.577	0.660	0.742	0.825	0.907	0.990
14"	0.243	0.292	0.340	0.389	0.438	0.486	0.583	0.681	0.778	0.875	0.972	1.069	1.167
16"	0.278	0.333	0.389	0.444	0.500	0.556	0.667	0.778	0.889	1.000	1.111	1.222	1.333
18"	0.313	0.375	0.438	0.500	0.563	0.625	0.750	0.875	1.000	1.125	1.250	1.375	1.500



EXAMPLE:

11%" BLI joists, 6/12 slope, 15' $81\!\!/\!\!^{"}$ Horizontal Span, 2' overhang (horizontal) and $31\!\!/\!\!^{"}$ walls.

Up-the-slope span (for use with Roof Load Table, page 26) Horizontal span = 15' 8½" = 15.708' 15.708' x 1.118 (Slope Factor from chart) = 17.562', round up to 18'

Cut-length

HL = $2' + 3\frac{1}{2}" + 15' 8\frac{1}{2}" + 3\frac{1}{2}" = 18' 3\frac{1}{2}" = 18.292'$ 18.292' x 1.118 (Slope Factor from chart) = 20.45' 20.45' + 0.495' (Lp from chart) = 20.945' Cut Length = $20' 11\frac{1}{2}$ "

STORAGE & HANDLING



Protect from moisture and weather. Keep covered with factory wrap until time of use. Store on dry level ground using stacked support blocks 10' oncenter to keep bundles at least 6" off the ground to allow air circulation.



DO NOT store BLI joists flat. (onCENTER® LVL and rim board should be stacked flatwise).

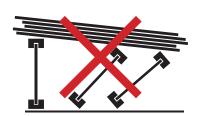


DO NOT lift BLI joists by top flange with forklift.



DO NOT lift BLI joists flatwise.

SAFETY PRECAUTIONS



DO NOT stack building materials on unsheathed joists. Stack only over bearing walls or main beams.



DO NOT walk on onCENTER engineered lumber that is lying flat.



Use safety glasses, gloves, hard hats, and other personal protective equipment when handling and installing onCENTER engineered lumber. Contact BlueLinx for SDS information.



DO NOT use damaged products.

BRACING REQUIREMENTS



DO NOT allow workers or loads on engineered lumber joists until properly installed and braced.

- 1. Joists are unstable until properly attached and braced laterally. Failure to provide stability can result in serious accidents.
- 2. Restrain joists and beams from rotation at the end supports by use of blocking panels, x-bridging, or continuous closure (rim board, rim joist or structural panel).
- 3. Install all fasteners in each joist, beam, hanger, blocking panel, x-bridging, or continuous closure as it is set.
- 4. Lateral restraint, such as a braced end wall or existing deck, must be established parallel to the first joist in a run. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the full length of the first 4' of joists in the run.
- 5. Rows of temporary bracing running at right angles to the joists and spaced not more than 10' on center must extend to the established lateral restraint. Bracing should be a minimum of 1x4, at least 8' long, attached to the top face of each joist with a minimum of two 8d nails (10d if bracing is 2x4). Ends of bracing should overlap at least two joists.
- 6. Ends of cantilevers require temporary bracing on both the top and bottom flanges.
- 7. Sheathing must be completely attached to each BLI joist before additional loads can be placed on the system.
- 8. Joist flanges must remain straight within ½" of true alignment.

INSTALLATION NOTES

- 1. BlueLinx on CENTER® products must be protected from weather and used only in covered, dry-use conditions (moisture content of engineered lumber must be less than 16%).
- 2. Engineered lumber must not be installed in direct contact with masonry or concrete.
- 3. BLI joists must be supported by the bottom flange on walls or beams or in hangers. They must not be supported by the top flange, by a non-structural ridge board, or by toe-nailing into a beam or ledger.
- 4. For BLI joists, minimum end bearing length is $1\frac{3}{4}$ "; minimum intermediate bearing length is $3\frac{1}{2}$ ".
- 5. When nailing to the wide face of BLI joist flanges, maintain spacing within the following ranges:

Flange Nail Spacing								
	BLI 700, 900							
Nail Size	Min.	Max.	Min.	Max.				
8d Box, 8d Common, 10d Box, 12d Box	2"	24"	4"	24"				
10d Common, 12d Common	3"	24"	4"	24"				

NOTES:

- 1. When more than one row of nails is required, rows must be offset at least ½" (%" for BLI 700 joists) and staggered.
- 2. 14 gauge staples may be substituted for 8d nails if penetration into the joist flange is at least 1".
- 3. Do not use nails larger than those shown above when attaching sheathing to BLI joists.

- 6. BLI joists are manufactured with no camber, and may be installed with web markings reading right side up or upside down.
- 7. Except when cutting to length or for birdsmouth cuts, BLI joist flanges should not be cut, tapered, notched, or drilled.
- 8. Concentrated loads should be supported by the top surface of the top flange, not hung from the bottom flange (Exceptions: lighting fixtures, ceiling fans, etc.).
- 9. When nail type is not specified in this guide, common, box or sinkers may be used.
- 10. Certain applications of staple-up radiant heating may increase deflection in I-joists with solid-sawn flanges due to unequal drying within the floor cavity. See APA publication TT-113 for more information.
- 11. With preservative treated wood, use only stainless steel or hot-dipped galvanized connectors, fasteners and other metal hardware as required by code. As a minimum requirement, hot-dipped galvanized coated fasteners should conform to ASTM Standard A 153 and hot-dipped galvanized coated connectors should conform to ASTM Standard A 653 (Class G-185). In highly corrosive environments, stainless steel connectors and fasteners should be used.

FRAMING CONNECTORS FOR BLI JOISTS

USP Structural Connectors® 1,2,3



Simpson Strong-Tie® Connectors 1,2,3

2715

10d x 1½ 10d x 1½

THF35157

2200

10d

10d x 1½

HD7160

2905

16d

10d

N/A

TH035160



NOTES:

- Tabulated hanger capacities are based only on the hanger, fasteners, and header to which it is attached. Allowable reaction of the carried joist, based on bearing length provided by the hanger, must also be determined and compared to actual reaction.
- Consult hanger manufacturer's product information for capacities when parameters differ from design assumptions listed below.
- Follow hanger manufacturer's guidelines for installation and nailing. Avoid the practice of toe-nailing joists to beams and adding hangers later. Install hanger first, then the supported I-joist.
- Top mount hanger capacity is based on header being either LVL or the same series/depth as the joist being carried.
- 5. For top mount hangers supported by I-joists, all nails must be 10d x 1½

Backer block material has been assumed to be DF/SP for all joist series except the 80, 90, and 900
joist series, where the block was assumed to be SPF/HF.

TMP4

1970 10d

10d x 11/2

- Beveled bearing stiffeners required for field slope & skew hangers. Stiffeners also required for face mount hangers if hanger flanges do not directly support joist top flange.
- 8. Top plate for variable pitch hangers assumed to be SPF/HF.
- 9. USP TMP hangers are for slopes up to and including 6/12. Use TMPH for slopes from 6/12 to 12/12.
- 10. Nail sizes are 0.148" x 1½" for 10d x 1½, 0.148" x 3" for 10d, and 0.162" x 3½" for 16d.
- Tabulated capacities for USP TFI318 and TFI418 hangers are for attachment to LVL (top mount hangers for bearing on 18" I joist headers are not available from USP).

onCENTER® RIM BOARD SE

Capacities¹

Thickness	1"	11/8"
Vertical Load ² Rim or starter joist (9½" - 16") Rim or starter joist (18")	3300 plf 2750 plf	4400 plf 3950 plf
Horizontal Load ³ Lateral seismic Lateral wind ⁴	180 plf 250 plf	180 plf 250 plf
1/2" Lag or Through Bolt 5 Attaching ledger to rim board (per bolt)	300 lbs	350 lbs
Nails in Wide Face of Rim Board S.G. for NDS lateral load calculations	0.50	0.50

- For fully supported rim board applications only. Not appropriate for the design of bending members
- Vertical Load capacity is based on the normal load duration (10 years) for wood products, and may not be increased for shorter load durations.
- 3. Horizontal Load transfer capacity is based on the connection requirements shown below and on short-term load duration (10 minutes). Design values may be adjusted for other load durations in accordance with the applicable code. The 150 plf lateral load limit for toe-nailed connections with Seismic Design Categories D, E and F in Section 4.1.7 of SDPWS-2008/2015 does not apply. For increased horizontal load capacity, see APA EWS Y250.
- 4. Increased 40% per Section 4.1.7 of SDPWS-2008/2015

For $\frac{1}{2}$ " lag screws, drill a $\frac{5}{16}$ " lead hole in the rim board and a $\frac{1}{2}$ " hole

in the ledger. Caution: Do not drill ½" hole in rim board. Insert lag screw

in % lead hole by turning with a wrench, not by driving with a hammer. Avoid over-torquing, which can significantly reduce lateral resistance of

screw. Screw length must be sufficient to penetrate beyond rim board a

minimum of 1/2"

Sizes & Approximate Weights (plf)

	91/2"	11%"	14"	16"	18"
1"	2.5	3.1	3.6	4.1	4.7
11/8"	2.8	3.5	4.1	4.7	5.2

Available in 12' lengths (24' available in the western United States).

Allowable Edgewise Bending Design Stresses a,b

E (Modulus of Elasticity)	0.55 x 10 ⁶ psi
F _b (Bending) °	600 psi
F _v (Horizontal Shear)	270 psi
$\mathbf{F}_{\mathtt{c}_{\perp}}$ (Compression Perpendicular to Grain)	550 psi

a. Design values apply to all depths of onCENTER rim board. Span must not exceed 4 feet.

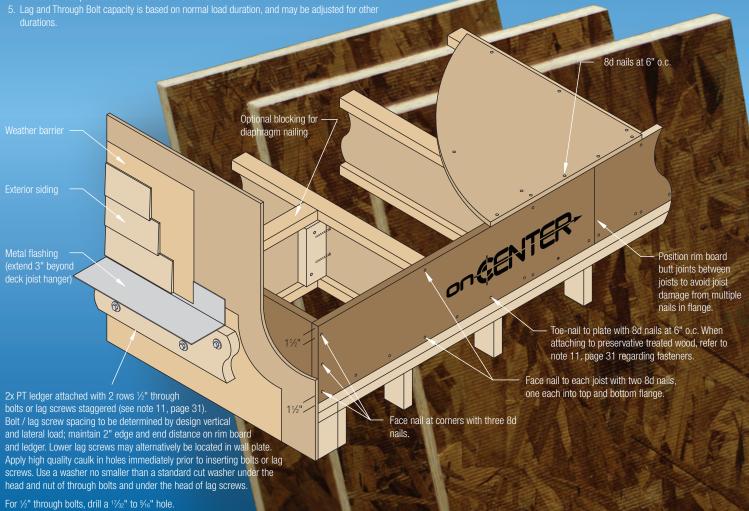
For Use over Short, Lightly Loaded Openings

In addition to its uses as a rim board and starter joist, onCENTER rim board

those in the Bending Design Stresses table above.

may also be used over lightly loaded door, window, and foundation ventilation openings where the span does not exceed 4 feet and stresses do not exceed

- b. Except for E and F_{a,i}, all values may be increased for duration of load.
- c. Allowable bending stress includes adjustments for volume effect.



onCENTER® LVL

onCENTER LVL is available in a broad range of grades and sizes to meet the varying demands of today's designers, builders, and homeowners. It's the natural choice when you need stable dimensions, consistent performance, and superior strength. With design properties far surpassing those of ordinary dimension lumber, shallower depths, longer clear spans, and fewer intermediate supports are all feasible. Typical applications include door and window headers, floor beams, ridge beams, and hip and valley beams. Quality is monitored by the third-party inspection services of APA-EWS® and backed by a lifetime limited warranty.

- 2.0E grade
- 1¾" width
- Various depths from 71/4" to 24"
- Straighter wood that resists warping and shrinking
- Greater design flexibility than ordinary lumber
- Factory-sealed coating to protect against the elements during construction
- Lifetime limited warranty*



Edgewise Design Values

			Depth								
Width	Design Property	71/4"	91/4"	9½"	11¼"	11%"	14"	16"	18"	24"	
	El (10 ⁶ in ² lbs)	111	231	250	415	488	800	1195	1701	4032	
43/11	Allowable Moment (ft-lbs)	4218	6660	7002	9613	10639	14320	18210	22511	37782	
1¾"	Allowable Shear (lbs)	2411	3076	3159	3741	3948	4655	5320	5985	7980	
	Weight (plf)	3.3	4.3	4.4	5.2	5.5	6.5	7.4	8.3	11.1	

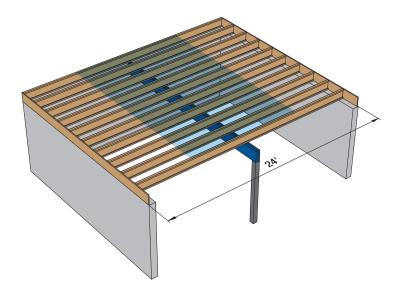
- 1. Allowable moment and shear values are for 100% load duration and may be adjusted for other load durations.
- 2. Allowable moment may be increased 4% for repetitive members as defined in the NDS (2005, 2012, 2015).
- 3. Table assumes beam has lateral support at bearing points and at 24" o.c. or less along the span.
- 4. 1¾" wide beams 16" and deeper must only be used in multiple-ply members.
- 5. Not all grades and depths may be available in all locations. Contact BlueLinx or your local provider of BlueLinx products for availability.

Allowable Edgewise Design Stresses^a

E (Modulus of Elasticity) ^b	2.0 x 10 ⁶ psi
F _b (Flexural Stress)	3100 psi ^{c,d}
F _v (Horizontal Shear)	285 psi
$\boldsymbol{F}_{c\perp}$ (Compression Perpendicular to Grain) b	750 psi
$F_{c\parallel}$ (Compression Parallel to Grain)	2750 psi
F _t (Tension Parallel to Grain) ^e	1700 psi
SG (Equivalent Specific Gravity) ^f	0.50

- a. Allowable design stresses apply to depths as small as 3½" ripped from any depth of beam.
- b. No increase is allowed to E or F_{all} for duration of load.
- c. A factor of 1.04 may be applied for repetitive members as defined in the NDS (2005, 2012, 2015). d. For depth (d) of 12". For 3.5" \leq d < 12", multiply F_b by (12/d)^{0.125}. For d > 12", multiply F_b by (12/d)^{0.2}. e. F_t has been adjusted for a length effect suitable for most common applications.
- f. For calculating lateral load capacity of bolts, lag screws, nails, and wood screws in the wide face.

CALCULATING UNIFORM LOADS



EXAMPLE 1 - Floor Girder

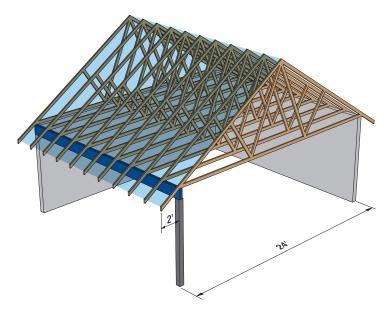
Floor Loading: 50 psf Total Load (TL), 40 psf Live Load (LL)

If joists are hanging into a flush beam or broken above a dropped girder:

24' / 2 = 12' tributary width 12' x 50 psf = **600 plf TL** 12' x 40 psf = **480 plf LL**

Multiple span joists (with equal spans) that run continuous over a wall or dropped beam apply 25% additional load to the intermediate support than two simple span members. If the joists above are continuous:

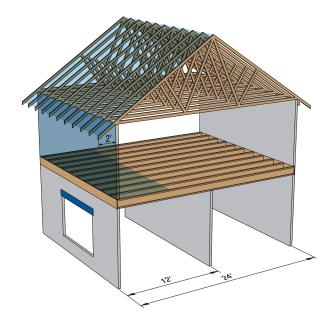
24' / 2 x 1.25 (or 24' x 5/8) = 15' tributary width 15' x 50 psf = **750 plf TL** 15' x 40 psf = **600 plf LL**



EXAMPLE 2 - Roof Supporting Beam

Roof Loading: 47 psf Total Load, 30 psf Live Load

24' / 2 + 2' overhang = 14' tributary width 14' x 47 psf = **658 plf TL** 14' x 30 psf = **420 plf LL**



EXAMPLE 3 - Header Supporting Floor and Roof

Roof Loading: 47 psf Total Load, 30 psf Live Load Floor Loading: 50 psf Total Load, 40 psf Live Load

Exterior wall: 10 psf TL

Roof portion:

24' / 2 + 2' overhang = 14' tributary width

14' x 47 psf = **658 plf TL** 14' x 30 psf = **420 plf LL**

Floor portion:

12' / 2 = 6' tributary width

 $6' \times 50 \text{ psf} = 300 \text{ plf TL}$

6' x 40 psf = **240 plf LL**

9' Exterior wall:

9' x 10 psf = **90 plf TL**

Totals:

658 + 300 + 90 =**1048 plf TL**

420 + 240 = 660 plf LL

- Tabulated allowable uniform loads are for the more restrictive of single or continuous spans (measured center-to-center of bearings) and may be applied in addition to the weight of the beam. Dry use conditions are assumed (moisture content of less than 16%). For other load types (e.g. triangular, concentrated, non-uniform, etc.) or span configurations, use Doma SizerTM design software or contact your BlueLinx representative.
- To properly select a beam, capacities in the 'Live Load' and
 'Total Load' rows must meet or exceed actual live and total loads
 respectively. When 'Live Load' is blank, 'Total Load' will control,
 unless a floor live load deflection limit other than L/360 is desired
 (see note 3).
- For floor live load deflection limits of L/480 or L/600, multiply the allowable load value in the floor 'Live Load' row (or 'Total Load' when 'Live Load' is blank) by 0.75 or 0.60 respectively.
- 4. Check deflection limits against local building code requirements.
- 5. 13/4" wide members with depths exceeding 14" must only be used as multiple members (i.e., 2, 3, or 4 plies).
- 6. See pages 46 & 47 for multiple member fastening requirements.
- 7. Provide lateral support at all bearing locations and continuously along the top (or compression) edge of the beam.
- 8. To select an LVL beam for a span not shown, use values for the next longer span shown (e.g., for a 21' span, select product using values for a 22' span).
- 9. Bearing must be provided across the full width of the LVL beam.
- 10. Bearing length may be adjusted if an LVL beam is not fully loaded. For example, if an LVL beam requires 3.5" of bearing to support a maximum TL capacity of 1000 plf but the calculated design load

- is only 800 plf, the bearing length indicated in the chart can be adjusted. Divide 800 plf by 1000 plf and multiply by 3.5" (800/1000 x 3.5" = 2.8"). Caution: Under no circumstances may end bearing be less than $1\frac{1}{2}$ " nor intermediate bearing less than 3".
- 11. Roof surface slope must be a minimum of 0.25/12 or as required for adequate drainage.

PRODUCT SELECTION EXAMPLE:

Choose an onCENTER 2.0E LVL beam to support 620 PLF live load \pm 160 PLF dead load. Loads are calculated from both floor and roof areas. The beam spans 9'-6".

If a beam supports floor and roof loads, use floor tables for product selection as these tables use stiffer deflection criterion. Find the tables titled Floor Load Table (pages 38-39). Total load to be supported is 780 PLF (620 live + 160 dead). Enter the table at the left column and find 10' (next longest length above 9'-6"). The column to the right contains three rows, Live Load L/360, Total Load and End / Int. Bearing (minimum bearing requirements in inches at End and Intermediate supports). Follow the row marked Total Load across the chart until a number larger than 780 is located. A single piece of 1¾" x 14" deep LVL can support 932 PLF total load. Live load capacity must also be verified (if none is indicated, total load governs). Note the minimum bearing lengths of 3.6" (end) and 8.9" (int). To find a shallower beam requiring less bearing, continue moving across the table to the Two 13/4" on CENTER LVL section. Again, find a total load value that meets or exceeds 780 PLF. Two 13/4" x 91/4" LVL can carry 1017 PLF total load and 684 PLF live load. Both numbers exceed the TL and LL values needed (1017>780 TL and 684>620 LL). The required end bearing is 2.0" and in multiple span conditions, the intermediate bearing requirement is 4.9".

FLOOR LOAD TABLE (PLF)

2.0 E LV L 100%

				One 1%" or	CENTER LV	ı					Two 1	3/4" onCENT	FRIVI			
Span	Condition	71/4"	91/4"	9½"	11¼"	11%"	14"	71/4"	9¼"	9½"	11¼"	11%"	14"	16"	18"	24"
opan	Live Load L/360	762	071	0/2	,-	,		1525	571	072	,.	,				
6'	Total Load	795	1073	1110	1387	1493	1887	1589	2147	2221	2773	2985	3774	4185	4183	4178
Ü	End / Int. Bearing	1.9 / 4.6	2.5 / 6.2	2.6 / 6.4	3.2 / 8.0	3.5 / 8.6	4.4 / 10.8	1.9 / 4.6	2.5 / 6.2	2.6 / 6.4	3.2 / 8.0				4.8 / 12.0	
	Live Load L/360	322	668	724	0.27 0.0	0.07 0.0	,	643	1336	1447	0.27 0.0	0.07 0.0		1107 1210	1107 1210	1107 1210
8'	Total Load	479	745	769	945	1011	1249	958	1490	1538	1890	2021	2498	2989	3133	3128
Ū	End / Int. Bearing	1.5 / 3.7	2.3 / 5.7	2.4 / 5.9	2.9 / 7.3	3.1 / 7.8	3.9 / 9.6	1.5 / 3.7	2.3 / 5.7	2.4 / 5.9	2.9 / 7.3	3.1 / 7.8	3.9 / 9.6		4.8 / 12.0	
	Live Load L/360	164	342	370	615	724		329	684	741	1230	1447	0.07.0.0			
10'	Total Load	244	509	551	716	763	932	487	1017	1103	1432	1527	1865	2206	2503	2498
	End / Int. Bearing	1.5 / 3.0	2.0 / 4.9	2.2 / 5.3	2.8 / 6.9	3.0 / 7.3	3.6 / 8.9	1.5 / 3.0	2.0 / 4.9	2.2 / 5.3	2.8 / 6.9	3.0 / 7.3	3.6 / 8.9		4.8 / 12.0	
	Live Load L/360	123	257	278	462	544		247	514	557	924	1087				
11'	Total Load	182	381	413	630	680	827	364	762	826	1261	1360	1655	1950	2263	2269
	End / Int. Bearing	1.5 / 3.0	1.7 / 4.1	1.8 / 4.4	2.7 / 6.7	2.9 / 7.2	3.5 / 8.7	1.5 / 3.0	1.7 / 4.1	1.8 / 4.4	2.7 / 6.7	2.9 / 7.2	3.5 / 8.7		4.8 / 11.9	
	Live Load L/360	95	198	214	356	419	686	190	396	429	712	837	1372			
12'	Total Load	139	293	317	529	586	743	279	585	634	1058	1171	1487	1746	2021	2078
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.4	1.5 / 3.7	2.5 / 6.1	2.7 / 6.8	3.5 / 8.6	1.5 / 3.0	1.5 / 3.4	1.5 / 3.7	2.5 / 6.1	2.7 / 6.8	3.5 / 8.6	4.1 / 10.1	4.7 / 11.6	4.8 / 12.0
	Live Load L/360	75	155	168	280	329	540	150	311	337	560	659	1079			
13'	Total Load	109	229	249	415	489	671	218	458	497	830	977	1343	1581	1825	1916
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.4 / 8.4	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.4 / 8.4	4.0 / 9.9	4.6 / 11.4	4.8 / 12.0
	Live Load L/360	60	124	135	224	264	432	120	249	270	448	527	864	1290		
14'	Total Load	86	183	198	331	390	578	173	365	396	662	780	1156	1444	1663	1778
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.5	2.1 / 5.3	3.2 / 7.8	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.5	2.1 / 5.3	3.2 / 7.8	3.9 / 9.7	4.5 / 11.2	4.8 / 12.0
	Live Load L/360	48	101	109	182	214	351	97	202	219	365	429	703	1049	1493	
15'	Total Load	69	148	160	268	316	503	139	295	321	536	632	1005	1280	1528	1658
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.9	1.9 / 4.6	2.9 / 7.3	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.9	1.9 / 4.6	2.9 / 7.3	3.7 / 9.3	4.4 / 11.0	4.8 / 12.0
	Live Load L/360	40	83	90	150	176	289	80	167	181	300	353	579	864	1230	
16'	Total Load	57	121	131	220	259	428	114	242	263	440	519	855	1123	1390	1553
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.7 / 6.6	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.7 / 6.6	3.5 / 8.7	4.3 / 10.7	4.8 / 12.0
	Live Load L/360		69	75	125	147	241	67	139	151	250	294	483	720	1026	
17'	Total Load		100	108	183	215	356	94	200	217	365	431	711	993	1230	1460
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	2.4 / 5.9	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	2.4 / 5.9	3.3 / 8.2	4.1 / 10.1	4.8 / 12.0
	Live Load L/360		58	63	105	124	203	56	117	127	211	248	407	607	864	
18'	Total Load		83	91	153	180	298	78	167	182	306	361	597	885	1095	1378
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.3	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.3	3.1 / 7.7	3.8 / 9.5	4.8 / 12.0
	Live Load L/360		49	54	89	105	173	48	99	108	179	211	346	516	735	
19'	Total Load		70	76	129	153	253	65	141	153	259	306	506	759	981	1304
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0	3.6 / 9.0	4.8 / 12.0
	Live Load L/360		42	46	77	90	148	41	85	92	154	181	296	442	630	
20'	Total Load		59	65	110	130	216	55	119	130	220	260	432	649	884	1238
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0			1.7 / 4.3	1.5 / 3.0							3.5 / 8.6	
	Live Load L/360				57	68	111		64	69	115	136	223	332	473	1122
22'	Total Load				81	96	160		87	95	163	193	321	484	693	1123
	End / Int. Bearing				1.5 / 3.0		1.5 / 3.5		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.1 / 5.2	3.0 / 7.5	4.8 / 12.0
0.41	Live Load L/360				44	52	85		49	53	89	104	171	256	365	864
24'	Total Load				61	73	122		65	71	123	146	244	369	530	1027
	End / Int. Bearing				1.5 / 3.0	1.5 / 3.0	1.5 / 3.0		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.4	2.5 / 6.3	4.8 / 12.0
001	Live Load L/360					41	67			42	70	82	135	201	287	680
26'	Total Load					56	94			54	94	112	189	287	414	872
	End / Int. Bearing					1.5 / 3.0	1.5 / 3.0			1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.8	2.2 / 5.3	4.5 / 11.1
201	Live Load L/360						54				56 72	66	108	161	229	544
28'	Total Load						74 15/20				73	88	149	227	328	749
	End / Int. Bearing						1.5 / 3.0				1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.9 / 4.6	4.1 / 10.3

Live Load L/360 = Maximum live load (plf) with deflection limited to L/360

Total Load = Maximum total load (plf) with deflection limited to L/240

End / Int. Bearing = Minimum end and intermediate bearing length (inches) based on bearing stress of 750 psi, as provided by direct bearing on Hem-Fir, Southern Pine, or Douglas Fir-Larch cripples or on a properly specified hanger or steel column plate. For other conditions, see page 45.

FLOOR LOAD TABLE (PLF)

2.0 E W L

				т	hree 13/11 o	nCENTER L	/I						our 1%" or	CENTER LV	1		
Span	Condition	91/4"	9½"	11¼"	11%"	14"	16"	18"	24"	9¼"	9½"	11¼"	11%"	14"	16"	18"	24"
opan	Live Load L/360	571	072		,.						0/2		,				
6'	Total Load	3220	3331	4160	4478	5661	6278	6275	6267	4293	4442	5547	5971	7548	8370	8367	8356
·	End / Int. Bearing	2.5 / 6.2	2.6 / 6.4	3.2 / 8.0	3.5 / 8.6		4.8 / 12.0			2.5 / 6.2	2.6 / 6.4	3.2 / 8.0	3.5 / 8.6		4.8 / 12.0		
	Live Load L/360	2004	2171	0.27 0.0	0.07 0.0	,	1107 1210	1107 1210	1107 1210	2672	2894	0.27 0.0	0.07 0.0	,	1107 1210	1107 1210	1107 1210
8'	Total Load	2235	2308	2834	3032	3746	4484	4700	4692	2980	3077	3779	4043	4995	5979	6267	6256
Ü	End / Int. Bearing	2.3 / 5.7	2.4 / 5.9	2.9 / 7.3	3.1 / 7.8		4.6 / 11.4			2.3 / 5.7	2.4 / 5.9	2.9 / 7.3	3.1 / 7.8		4.6 / 11.4		
	Live Load L/360	1026	1111	1846	2171	0.07 0.0	4.07 11.4	4.07 12.0	4.07 12.0	1368	1482	2461	2894	0.07 0.0	4.07 11.4	4.07 12.0	4.07 12.0
10'	Total Load	1526	1654	2148	2290	2797	3309	3755	3747	2035	2205	2864	3054	3729	4411	5007	4996
10	End / Int. Bearing	2.0 / 4.9	2.2 / 5.3	2.8 / 6.9	3.0 / 7.3		4.3 / 10.6			2.0 / 4.9	2.2 / 5.3	2.8 / 6.9	3.0 / 7.3		4.3 / 10.6		
	Live Load L/360	771	835	1387	1631	3.070.9	4.37 10.0	4.0 / 12.0	4.07 12.0	1028	1113	1849	2175	3.070.9	4.57 10.0	4.07 12.0	4.0 / 12.0
11'		1143	1239	1915	2040	2482	2924	3395	3403		1652	2553	2720	3309	3899	4527	4537
- "	Total Load									1525							
	End / Int. Bearing	1.7 / 4.1	1.8 / 4.4	2.7 / 6.8	2.9 / 7.2	3.5 / 8.7	4.1 / 10.3	4.8 / 11.9	4.6 / 12.0	1.7 / 4.1	1.8 / 4.4	2.7 / 6.8	2.9 / 7.2	3.5 / 8.7	4.1710.3	4.6 / 11.9	4.8 / 12.0
12'	Live Load L/360	594 878	643 952	1068 1587	1256 1828	2058 2230	2619	3031	3117	792 1170	858 1269	1424 2115	1675 2437	2745 2973	3493	4042	4156
12	Total Load																
	End / Int. Bearing	1.5 / 3.4	1.5 / 3.7	2.5 / 6.1	2.8 / 7.0	3.5 / 8.6	4.1 / 10.1	4.//11.6	4.8 / 12.0	1.5 / 3.4	1.5 / 3.7	2.5 / 6.1	2.8 / 7.0	3.5 / 8.6	4.1 / 10.1	4.7 / 11.6	4.8 / 12.0
401	Live Load L/360	467	506	840	988	1619	0070	0707	0074	623	675	1120	1317	2159	04.00	0050	0000
13'	Total Load	688	746	1245	1466	2024	2372	2737	2874	917	994	1659	1954	2699	3162	3650	3833
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.4 / 8.4	4.0 / 9.9	4.6 / 11.4	4.8 / 12.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.4 / 8.4	4.0 / 9.9	4.6 / 11.4	4.8 / 12.0
	Live Load L/360	374	405	673	791	1296	1935	0.405	0007	499	540	897	1055	1728	2580	0007	0550
14'	Total Load	548	594	993	1170	1804	2167	2495	2667	731	793	1324	1560	2406	2889	3327	3556
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.8 / 4.5	2.1 / 5.3	3.3 / 8.1	3.9 / 9.7		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.5	2.1 / 5.3	3.3 / 8.1	3.9 / 9.7		4.8 / 12.0
	Live Load L/360	304	329	547	643	1054	1573	2240		405	439	729	858	1405	2098	2987	
15'	Total Load	443	481	805	948	1562	1994	2292	2487	591	641	1073	1264	2082	2658	3056	3316
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.6 / 3.9	1.9 / 4.6	3.0 / 7.5	3.9 / 9.6		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.6 / 3.9	1.9 / 4.6	3.0 / 7.5	3.9 / 9.6		4.8 / 12.0
	Live Load L/360	250	271	451	530	868	1296	1846		334	362	601	707	1158	1728	2461	
16'	Total Load	363	394	660	778	1283	1753	2119	2329	484	525	880	1038	1711	2338	2825	3106
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.7 / 6.6	3.6 / 9.0	4.4 / 10.9	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	1.7 / 4.1	2.7 / 6.6	3.6 / 9.0		4.8 / 12.0
	Live Load L/360	209	226	376	442	724	1081	1539		278	302	501	589	965	1441	2052	
17'	Total Load	300	326	548	646	1067	1551	1919	2190	401	435	731	862	1422	2067	2559	2920
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	2.4 / 5.9	3.4 / 8.5		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.1	1.5 / 3.6	2.4 / 5.9	3.4 / 8.5		4.8 / 12.0
	Live Load L/360	176	190	316	372	610	910	1296		234	254	422	496	813	1214	1728	
18'	Total Load	251	273	459	542	895	1343	1709	2067	335	364	612	722	1194	1791	2279	2756
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.3	3.2 / 7.8	4.0 / 9.9	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.3	3.2 / 7.8	4.0 / 9.9	4.8 / 12.0
	Live Load L/360	149	162	269	316	519	774	1102		199	216	359	422	691	1032	1470	
19'	Total Load	211	230	388	458	758	1139	1531	1956	282	307	517	611	1011	1519	2042	2608
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0	3.8 / 9.4	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0	3.8 / 9.4	4.8 / 12.0
	Live Load L/360	128	139	231	271	445	664	945		171	185	308	362	593	885	1260	
20'	Total Load	179	195	330	391	648	973	1380	1857	239	260	441	521	863	1298	1840	2476
	End / Int. Bearing					1.7 / 4.3								1.7 / 4.3			
	Live Load L/360	96	104	173	204	334	499	710	1683	128	139	231	272	445	665	947	2244
22'	Total Load	131	143	244	289	482	726	1040	1685	175	191	326	386	642	968	1387	2247
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.1 / 5.2		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.1 / 5.2	3.0 / 7.5	4.8 / 12.0
	Live Load L/360	74	80	133	157	257	384	547	1296	99	107	178	209	343	512	729	1728
24'	Total Load	98	107	185	219	367	554	795	1542	131	143	246	292	489	739	1060	2056
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.4		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.4	2.5 / 6.3	4.8 / 12.0
	Live Load L/360	58	63	105	123	202	302	430	1020	77	84	140	164	270	403	574	1359
26'	Total Load	74	81	142	169	284	431	620	1362	99	109	189	225	379	575	827	1816
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.8		4.6 / 11.5	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.8	2.2 / 5.3	4.6 / 11.5
	Live Load L/360	46	50	84	99	162	242	344	816	62	67	112	132	216	322	459	1088
28'	Total Load	57	62	110	132	224	341	492	1170	76	83	147	176	298	454	656	1559
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.9 / 4.6	4.3 / 10.7	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.9 / 4.6	4.3 / 10.7

Live Load L/360 = Maximum live load (plf) with deflection limited to L/360

Total Load = Maximum total load (plf) with deflection limited to L/240

End / Int. Bearing = Minimum end and intermediate bearing length (inches) based on bearing stress of 750 psi, as provided by direct bearing on Hem-Fir, Southern Pine, or Douglas Fir-Larch cripples or on a properly specified hanger or steel column plate. For other conditions, see page 45.

ROOF LOAD TABLE (PLF) 115%

				One 1¾" on	CENTERIV	1					Two 1	3/4" onCENT	FRIVI			
Span	Condition	7¼"	91/4"	9½"	11¼"	11%"	14"	71/4"	91/4"	9½"	11¼"	11%"	14"	16"	18"	24"
opa	Live Load L/240	. / -	574	0/2		,.			0,11	0/2		,.				
6'	Total Load	914	1235	1278	1595	1717	2094	1829	2470	2555	3191	3435	4187	4185	4183	4178
Ü	End / Int. Bearing	2.1 / 5.3	2.9 / 7.1	3.0 / 7.3	3.7 / 9.2	4.0 / 9.8	4.8 / 12.0	2.1 / 5.3	2.9 / 7.1	3.0 / 7.3	3.7 / 9.2	4.0 / 9.8		4.8 / 12.0		
	Live Load L/240	482	2.07111	0.077.0	0.1 7 0.2		1107 1210	965	2.07 111	0.077.0	011 7 012	1107 010	1107 1210	1107 1210	1107 1210	1107 1210
8'	Total Load	603	858	885	1087	1163	1437	1206	1715	1770	2175	2326	2874	3135	3133	3128
_	End / Int. Bearing	1.9 / 4.6	2.7 / 6.6	2.7 / 6.8	3.4 / 8.3	3.6 / 8.9	4.4 / 11.0	1.9 / 4.6	2.7 / 6.6	2.7 / 6.8	3.4 / 8.3	3.6 / 8.9		4.8 / 12.0		
	Live Load L/240	247	513	556		0.07 0.0	,	494	1026	1111		0.07.0.0	,	,		,
10'	Total Load	326	608	640	824	879	1073	652	1217	1280	1648	1757	2146	2505	2503	2498
	End / Int. Bearing	1.5 / 3.2	2.4 / 5.9	2.5 / 6.2	3.2 / 7.9	3.4 / 8.4	4.1 / 10.3	1.5 / 3.2	2.4 / 5.9	2.5 / 6.2	3.2 / 7.9	3.4 / 8.4	4.1 / 10.3			
	Live Load L/240	185	385	418	693			371	771	835	1387					
11'	Total Load	244	502	528	726	783	952	488	1004	1056	1451	1566	1905	2244	2274	2269
	End / Int. Bearing	1.5 / 3.0	2.2 / 5.3	2.3 / 5.6	3.1 / 7.7	3.3 / 8.3	4.0 / 10.0	1.5 / 3.0	2.2 / 5.3	2.3 / 5.6	3.1 / 7.7	3.3 / 8.3		4.8 / 11.8		
	Live Load L/240	143	297	322	534	628		286	594	643	1068	1256				
12'	Total Load	187	392	424	609	674	856	374	783	849	1218	1348	1712	2010	2083	2078
	End / Int. Bearing	1.5 / 3.0	1.9 / 4.6	2.0 / 4.9	2.8 / 7.0	3.1 / 7.8	4.0 / 9.9	1.5 / 3.0	1.9 / 4.6	2.0 / 4.9	2.8 / 7.0	3.1 / 7.8	4.0 / 9.9	4.7 / 11.6	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	112	233	253	420	494		225	467	506	840	988				
13'	Total Load	146	307	333	518	574	773	293	614	666	1036	1147	1546	1821	1922	1916
	End / Int. Bearing	1.5 / 3.0	1.6 / 3.9	1.7 / 4.2	2.6 / 6.5	2.9 / 7.2	3.9 / 9.7	1.5 / 3.0	1.6 / 3.9	1.7 / 4.2	2.6 / 6.5	2.9 / 7.2	3.9 / 9.7	4.6 / 11.4	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	90	187	202	336	396	648	180	374	405	673	791	1296			
14'	Total Load	116	245	266	443	494	666	233	490	531	886	988	1331	1663	1783	1778
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.7 / 6.7	3.6 / 9.0	1.5 / 3.0	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.7 / 6.7	3.6 / 9.0	4.5 / 11.2	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	73	152	164	273	322	527	146	304	329	547	643	1054			
15'	Total Load	94	198	215	359	423	579	188	397	430	719	847	1158	1474	1663	1658
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.4 / 8.4	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.4 / 8.4	4.3 / 10.6	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	60	125	135	225	265	434	120	250	271	451	530	868			
16'	Total Load	77	163	176	295	348	508	154	325	353	590	696	1016	1294	1558	1553
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.2 / 7.9	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.2 / 7.9	4.0 / 10.0	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	50	104	113	188	221	362	100	209	226	376	442	724	1081		
17'	Total Load	63	135	146	245	289	449	127	270	293	491	578	899	1145	1417	1460
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.0 / 7.4	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.0 / 7.4	3.8 / 9.4	4.7 / 11.6	4.8 / 12.0
	Live Load L/240	42	88	95	158	186	305	84	176	190	316	372	610	910		
18'	Total Load	53	113	123	206	243	400	106	226	245	412	485	800	1019	1262	1378
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0	3.6 / 8.9	4.4 / 11.0	4.8 / 12.0
	Live Load L/240		74	81	134	158	259	72	149	162	269	316	519	774	1102	
19'	Total Load		95	103	174	206	339	89	191	207	348	411	679	913	1131	1304
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	3.4 / 8.4	4.2 / 10.4	4.8 / 12.0
	Live Load L/240		64	69	115	135	222	61	128	139	231	271	445	664	945	
20'	Total Load		81	88	149	175	290	75	162	176	297	351	580	823	1019	1238
	End / Int. Bearing						2.3 / 5.7			1.5 / 3.0			2.3 / 5.7	3.2 / 8.0		4.8 / 12.0
	Live Load L/240		48	52	86	102	167	46	96	104	173	204	334	499	710	
22'	Total Load		60	65	110	130	216	55	120	130	221	261	432	650	839	1123
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0		4.8 / 12.0
	Live Load L/240		37	40	66	78	128		74	80	133	157	257	384	547	
24'	Total Load		45	49	84	99	165		90	98	168	198	330	497	702	1028
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0	2.4 / 5.9		4.8 / 12.0
	Live Load L/240				52	61	101		58	63	105	123	202	302	430	0:=
26'	Total Load				64	77	128		69	75	129	154	257	388	557	947
	End / Int. Bearing				1.5 / 3.0	1.5 / 3.0	1.5 / 3.4		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	2.0 / 5.0		4.8 / 12.0
601	Live Load L/240				42	49	81		46	50	84	99	162	242	344	816
28'	Total Load				50	60	101		53	58	101	121	203	308	443	865
	End / Int. Bearing				1.5 / 3.0	1.5 / 3.0	1.5 / 3.0		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.3	2.5 / 6.1	4.8 / 11.8

Live Load L/240 = Maximum live load (plf) with deflection limited to L/240

Total Load = Maximum total load (plf) with deflection limited to L/180

End / Int. Bearing = Minimum end and intermediate bearing length (inches) based on bearing stress of 750 psi, as provided by direct bearing on Hem-Fir, Southern Pine, or Douglas Fir-Larch cripples or on a properly specified hanger or steel column plate. For other conditions, see page 45.

ROOF LOAD TABLE (PLF)

2.0 = W =

				Т	hree 1¾" o	nCENTER L	VI					F	Four 1¾" or	CENTER LV	1		
Span	Condition	9¼"	9½"	11¼"	11%"	14"	16"	18"	24"	9¼"	9½"	11¼"	11%"	14"	16"	18"	24"
opan	Live Load L/240	574	0/2		1170					071	072		,				
6'	Total Load	3705	3833	4786	5152	6281	6278	6275	6267	4940	5111	6382	6870	8374	8370	8367	8356
	End / Int. Bearing	2.9 / 7.1	3.0 / 7.3	3.7 / 9.2	4.0 / 9.8		4.8 / 12.0			2.9 / 7.1	3.0 / 7.3	3.7 / 9.2	4.0 / 9.8		4.8 / 12.0		
	Live Load L/240		0.07.110				,										
8'	Total Load	2573	2656	3262	3490	4311	4703	4700	4692	3430	3541	4349	4653	5748	6270	6267	6256
Ü	End / Int. Bearing	2.7 / 6.6	2.7 / 6.8	3.4 / 8.3	3.6 / 8.9		4.8 / 12.0			2.7 / 6.6	2.7 / 6.8	3.4 / 8.3	3.6 / 8.9		4.8 / 12.0		
	Live Load L/240	1539	1667	0.17 0.0	0.07 0.0	1.17 11.0	1.07 12.0	1.07 12.0	1.07 12.0	2052	2223	0.17 0.0	0.07 0.0	1.17 11.0	1.07 12.0	1.07 12.0	1.07 12.0
10'	Total Load	1899	1997	2472	2636	3220	3758	3755	3747	2532	2662	3296	3515	4293	5010	5007	4996
10	End / Int. Bearing	2.5 / 6.1	2.6 / 6.4	3.2 / 7.9	3.4 / 8.4		4.8 / 12.0			2.5 / 6.1	2.6 / 6.4	3.2 / 7.9	3.4 / 8.4		4.8 / 12.0		
	Live Load L/240	1156	1253	2080	0.47 0.4	4.17 10.0	4.07 12.0	4.07 12.0	4.07 12.0	1542	1670	2773	0.47 0.4	4.17 10.0	4.07 12.0	4.07 12.0	4.07 12.0
11'	Total Load	1529	1648	2205	2348	2857	3366	3411	3403	2038	2197	2940	3131	3809	4488	4549	4537
		2.2 / 5.4	2.4 / 5.8	3.1 / 7.8	3.3 / 8.3		4.8 / 11.8			2.2 / 5.4	2.4 / 5.8	3.1 / 7.8	3.3 / 8.3		4.8 / 11.8		
	End / Int. Bearing					4.0 / 10.0	4.0 / 11.0	4.0 / 12.0	4.0 / 12.0					4.0 / 10.0	4.0 / 11.0	4.0 / 12.0	4.0 / 12.0
12'	Live Load L/240	891	965	1602	1884 2104	2567	3016	3125	3117	1187	1286	2136	2512	3423	4021	4167	41 E C
12	Total Load	1175	1273	1901						1566	1698	2534	2806				4156
	End / Int. Bearing	1.9 / 4.6	2.0 / 4.9	3.0 / 7.3	3.3 / 8.1	4.0 / 9.9	4.7 / 11.6	4.8 / 12.0	4.8 / 12.0	1.9 / 4.6	2.0 / 4.9	3.0 / 7.3	3.3 / 8.1	4.0 / 9.9	4.//11.6	4.8 / 12.0	4.8 / 12.0
401	Live Load L/240	700	759	1260	1482	0004	0704	0000	0074	934	1012	1680	1976	0400	0044	0044	0000
13'	Total Load	921	999	1617	1791	2331	2731	2883	2874	1228	1331	2156	2387	3108	3641	3844	3833
	End / Int. Bearing	1.6 / 3.9	1.7 / 4.2	2.7 / 6.8	3.0 / 7.5	3.9 / 9.7	4.6 / 11.4	4.8 / 12.0	4.8 / 12.0	1.6 / 3.9	1.7 / 4.2	2.7 / 6.8	3.0 / 7.5	3.9 / 9.7	4.6 / 11.4	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	561	608	1009	1187	1944				748	810	1345	1582	2593			
14'	Total Load	735	797	1330	1542	2078	2495	2675	2667	980	1063	1773	2056	2770	3327	3567	3556
	End / Int. Bearing	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.8 / 6.9	3.8 / 9.3	4.5 / 11.2	4.8 / 12.0	4.8 / 12.0	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.8 / 6.9	3.8 / 9.3	4.5 / 11.2	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	456	494	820	965	1581				608	659	1094	1286	2108			
15'	Total Load	595	645	1078	1270	1807	2296	2495	2487	794	861	1438	1693	2410	3062	3327	3316
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.5 / 8.7		4.8 / 12.0	4.8 / 12.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.5 / 8.7		4.8 / 12.0	4.8 / 12.0
	Live Load L/240	376	407	676	795	1303	1944			501	543	901	1060	1737	2593		
16'	Total Load	488	530	886	1043	1586	2020	2338	2329	651	706	1181	1391	2115	2693	3117	3106
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.3 / 8.2	4.2 / 10.4	4.8 / 12.0	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.3 / 8.2	4.2 / 10.4	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	313	339	564	663	1086	1621			418	452	751	884	1448	2161		
17'	Total Load	405	439	736	867	1403	1787	2199	2190	540	586	981	1156	1870	2382	2931	2920
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.1 / 7.7	3.9 / 9.8	4.8 / 12.0	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.1 / 7.7	3.9 / 9.8	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	264	286	475	558	915	1366	1944		352	381	633	744	1220	1821	2593	
18'	Total Load	339	368	617	728	1200	1591	1969	2067	452	491	823	971	1601	2122	2626	2756
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0	3.7 / 9.2	4.6 / 11.4	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0	3.7 / 9.2	4.6 / 11.4	4.8 / 12.0
	Live Load L/240	224	243	404	475	778	1161	1653		299	324	538	633	1037	1548	2204	
19'	Total Load	286	311	523	617	1018	1426	1765	1956	382	415	697	822	1357	1901	2353	2608
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	3.5 / 8.7	4.3 / 10.8	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	3.5 / 8.7	4.3 / 10.8	4.8 / 12.0
	Live Load L/240	192	208	346	407	667	996	1417		256	278	461	543	889	1327	1890	
20¹	Total Load	244	265	446	526	870	1285	1590	1857	325	353	594	702	1160	1713	2121	2476
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.3 / 5.7	3.4 / 8.3	4.1 / 10.3	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.3 / 5.7	3.4 / 8.3	4.1 / 10.3	4.8 / 12.0
	Live Load L/240	144	156	260	306	501	748	1065		193	209	347	408	668	997	1420	
22'	Total Load	180	196	331	391	649	975	1310	1685	240	261	441	522	865	1300	1747	2247
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0	3.8 / 9.3	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0	3.8 / 9.3	4.8 / 12.0
	Live Load L/240	111	120	200	236	386	576	820		148	161	267	314	515	768	1094	
24'	Total Load	135	148	251	298	495	746	1069	1542	181	197	335	397	660	995	1425	2056
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0	2.4 / 5.9	3.4 / 8.3	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0	2.4 / 5.9	3.4 / 8.3	4.8 / 12.0
	Live Load L/240	87	95	157	185	304	453	645		116	126	210	247	405	604	860	
26'	Total Load	104	113	194	231	385	582	835	1421	138	151	259	307	514	776	1114	1894
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	2.0 / 5.0		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	2.0 / 5.0	2.9 / 7.1	4.8 / 12.0
	Live Load L/240	70	76	126	148	243	363	517	1224	93	101	168	198	324	484	689	1633
28'	Total Load	80	88	152	181	305	462	664	1317	107	117	203	242	406	615	885	1756
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.3		4.8 / 12.0		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0			4.8 / 12.0
	Life / Inc. Douring	1.07 0.0	1.0 / 0.0	1.07 0.0	1.07 0.0	1.070.0	1.07 4.0	2.0 / 0.1	12.0	1.07 0.0	1.07 0.0	1.07 0.0	1.0 / 0.0	1.07 0.0	1.07 4.0	2.07 0.1	1.0 / 12.0

Live Load L/240 = Maximum live load (plf) with deflection limited to L/240

Total Load = Maximum total load (plf) with deflection limited to L/180

End / Int. Bearing = Minimum end and intermediate bearing length (inches) based on bearing stress of 750 psi, as provided by direct bearing on Hem-Fir, Southern Pine, or Douglas Fir-Larch cripples or on a properly specified hanger or steel column plate. For other conditions, see page 45.

ROOF LOAD TABLE (PLF) 125%

				One 1¾" on	CENTERIV						Two 1	¾" onCENT	ER I VI			
Span	Condition	7¼"	91/4"	91/2"	111/4"	11%"	14"	71/4"	91/4"	9½"	111/4"	11%"	14"	16"	18"	24"
opa	Live Load L/240	. / -	0,1	072		,0		- / -	374	0/1		,.				
6¹	Total Load	994	1343	1389	1735	1867	2094	1988	2685	2778	3469	3735	4187	4185	4183	4178
Ü	End / Int. Bearing	2.3 / 5.7	3.1 / 7.7	3.2 / 8.0	4.0 / 9.9	4.3 / 10.7		2.3 / 5.7	3.1 / 7.7	3.2 / 8.0	4.0 / 9.9		4.8 / 12.0			
	Live Load L/240	482		0.27 0.0	,	,	,	965		0.27 0.0			,	,		
8'	Total Load	640	932	963	1182	1265	1563	1280	1865	1925	2365	2530	3125	3135	3133	3128
_	End / Int. Bearing	2.0 / 4.9	2.9 / 7.2	3.0 / 7.4	3.7 / 9.1		4.8 / 12.0	2.0 / 4.9	2.9 / 7.2	3.0 / 7.4	3.7 / 9.1		4.8 / 12.0			
	Live Load L/240	247	513	556			,	494	1026	1111		0.07 0.1	,	,		,
10'	Total Load	326	662	696	896	956	1167	652	1323	1392	1792	1911	2334	2505	2503	2498
	End / Int. Bearing	1.5 / 3.2	2.6 / 6.4	2.7 / 6.7	3.5 / 8.6	3.7 / 9.2	4.5 / 11.2	1.5 / 3.2	2.6 / 6.4	2.7 / 6.7	3.5 / 8.6	3.7 / 9.2		4.8 / 12.0		
	Live Load L/240	185	385	418	693	815		371	771	835	1387	1631				
11'	Total Load	244	510	552	789	851	1036	488	1019	1105	1579	1703	2071	2276	2274	2269
	End / Int. Bearing	1.5 / 3.0	2.2 / 5.4	2.4 / 5.9	3.4 / 8.3	3.6 / 9.0	4.4 / 10.9	1.5 / 3.0	2.2 / 5.4	2.4 / 5.9	3.4 / 8.3	3.6 / 9.0	4.4 / 10.9	4.8 / 12.0		
	Live Load L/240	143	297	322	534	628		286	594	643	1068	1256				
12'	Total Load	187	392	424	662	733	931	374	783	849	1325	1467	1862	2085	2083	2078
	End / Int. Bearing	1.5 / 3.0	1.9 / 4.6	2.0 / 4.9	3.1 / 7.6	3.4 / 8.5	4.3 / 10.7	1.5 / 3.0	1.9 / 4.6	2.0 / 4.9	3.1 / 7.6	3.4 / 8.5	4.3 / 10.7	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	112	233	253	420	494	810	225	467	506	840	988	1619			
13'	Total Load	146	307	333	555	624	841	293	614	666	1110	1248	1682	1924	1922	1916
	End / Int. Bearing	1.5 / 3.0	1.6 / 3.9	1.7 / 4.2	2.8 / 6.9	3.2 / 7.8	4.2 / 10.5	1.5 / 3.0	1.6 / 3.9	1.7 / 4.2	2.8 / 6.9	3.2 / 7.8	4.2 / 10.5	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	90	187	202	336	396	648	180	374	405	673	791	1296			
14'	Total Load	116	245	266	443	522	724	233	490	531	886	1044	1448	1785	1783	1778
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.8 / 7.0	3.9 / 9.7	1.5 / 3.0	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.8 / 7.0	3.9 / 9.7	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	73	152	164	273	322	527	146	304	329	547	643	1054	1573		
15'	Total Load	94	198	215	359	423	630	188	397	430	719	847	1260	1604	1663	1658
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.7 / 9.1	1.5 / 3.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.7 / 9.1	4.7 / 11.6	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	60	125	135	225	265	434	120	250	271	451	530	868	1296		
16'	Total Load	77	163	176	295	348	553	154	325	353	590	696	1106	1408	1558	1553
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.4 / 8.5	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.4 / 8.5	4.4 / 10.8	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	50	104	113	188	221	362	100	209	226	376	442	724	1081		
17'	Total Load	63	135	146	245	289	476	127	270	293	491	578	952	1245	1466	1460
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.2 / 7.8	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.2 / 7.8	4.1 / 10.2	4.8 / 12.0	4.8 / 12.0
	Live Load L/240	42	88	95	158	186	305	84	176	190	316	372	610	910	1296	
18'	Total Load	53	113	123	206	243	400	106	226	245	412	485	800	1109	1373	1378
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0	3.9 / 9.6	4.8 / 11.9	4.8 / 12.0
	Live Load L/240		74	81	134	158	259	72	149	162	269	316	519	774	1102	
19'	Total Load		95	103	174	206	339	89	191	207	348	411	679	994	1231	1304
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	3.7 / 9.1	4.5 / 11.3	4.8 / 12.0
	Live Load L/240		64	69	115	135	222	61	128	139	231	271	445	664	945	
20'	Total Load		81	88	149	175	290	75	162	176	297	351	580	870	1109	1238
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.3 / 5.7	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.5	2.3 / 5.7	3.4 / 8.4	4.3 / 10.7	4.8 / 12.0
	Live Load L/240		48	52	86	102	167	46	96	104	173	204	334	499	710	
22'	Total Load		60	65	110	130	216	55	120	130	221	261	432	650	914	1123
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0	3.9 / 9.7	4.8 / 12.0
	Live Load L/240		37	40	66	78	128		74	80	133	157	257	384	547	
24'	Total Load		45	49	84	99	165		90	98	168	198	330	497	713	1028
	End / Int. Bearing		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0	2.4 / 5.9		4.8 / 12.0
	Live Load L/240				52	61	101		58	63	105	123	202	302	430	
26'	Total Load				64	77	128		69	75	129	154	257	388	557	947
	End / Int. Bearing				1.5 / 3.0	1.5 / 3.0	1.5 / 3.4		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	2.0 / 5.0	2.9 / 7.1	4.8 / 12.0
	Live Load L/240				42	49	81		46	50	84	99	162	242	344	816
28'	Total Load				50	60	101		53	58	101	121	203	308	443	878
	End / Int. Bearing				1.5 / 3.0	1.5 / 3.0	1.5 / 3.0		1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.8 / 4.3	2.5 / 6.1	4.8 / 12.0

Live Load L/240 = Maximum live load (plf) with deflection limited to L/240

Total Load = Maximum total load (plf) with deflection limited to L/180

End / Int. Bearing = Minimum end and intermediate bearing length (inches) based on bearing stress of 750 psi, as provided by direct bearing on Hem-Fir, Southern Pine, or Douglas Fir-Larch cripples or on a properly specified hanger or steel column plate. For other conditions, see page 45.

ROOF LOAD TABLE (PLF)

2.0 E W L

		04 (11				nCENTER L		40"	0.411	24 (11	24/11			CENTER LV		400	0.411
Span	Condition	9¼"	9½"	11¼"	11%"	14"	16"	18"	24"	91/4"	9½"	11¼"	11%"	14"	16"	18"	24"
	Live Load L/240	4000	4400	5004	5000	0004	0070	0075	0007	5074		0000	7400	0074	0070	0007	0050
6'	Total Load	4028	4168	5204	5602	6281	6278	6275	6267	5371	5557	6939	7469	8374	8370	8367	8356
	End / Int. Bearing	3.1 / 7.7	3.2 / 8.0	4.0 / 9.9	4.3 / 10.7	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	3.1 / 7.7	3.2 / 8.0	4.0 / 9.9	4.3 / 10.7	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
01	Live Load L/240	0707	0000	05.47	0704	4000	4700	4700	4000	0700	0050	4700	5050	0054	0070	0007	0050
8'	Total Load	2797	2888	3547	3794	4688	4703	4700	4692	3730	3850	4729	5059	6251	6270	6267	6256
	End / Int. Bearing	2.9 / 7.2	3.0 / 7.4	3.7 / 9.1	3.9 / 9.7	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	2.9 / 7.2	3.0 / 7.4	3.7 / 9.1	3.9 / 9.7	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
401	Live Load L/240	1539	1667	0000	0007	0504	0750	0755	0747	2052	2223	0505	0000	4000	E040	F007	4000
10'	Total Load	2039	2171	2688	2867	3501	3758	3755	3747	2719	2895	3585	3822	4668	5010	5007	4996
	End / Int. Bearing	2.6 / 6.5	2.8 / 7.0	3.5 / 8.6	3.7 / 9.2	4.5 / 11.2	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	2.6 / 6.5	2.8 / 7.0	3.5 / 8.6		4.5 / 11.2	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
441	Live Load L/240	1156	1253	2080	2446	04.07	0444	0.444	0.400	1542	1670	2773	3262	44.40	4550	45.40	4507
11'	Total Load	1529	1657	2398	2554	3107	3414	3411	3403	2038	2209	3197	3405	4143	4552	4549	4537
	End / Int. Bearing	2.2 / 5.4	2.4 / 5.9	3.4 / 8.4	3.6 / 9.0	4.4 / 10.9	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	2.2 / 5.4	2.4 / 5.9	3.4 / 8.4	3.6 / 9.0	4.4 / 10.9	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
401	Live Load L/240	891	965	1602	1884	0700	04.00	0105	0117	1187	1286	2136	2512	0700	4470	44.07	44.50
12'	Total Load	1175	1273	2067	2289	2792	3128	3125	3117	1566	1698	2756	3052	3723	4170	4167	4156
	End / Int. Bearing	1.9 / 4.6	2.0 / 4.9	3.2 / 7.9	3.5 / 8.8		4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	1.9 / 4.6	2.0 / 4.9	3.2 / 7.9	3.5 / 8.8		4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
401	Live Load L/240	700	759	1260	1482	2429	0000	0000	0074	934	1012	1680	1976	3238	00.47	0044	0000
13'	Total Load	921	999	1665	1948	2535	2886	2883	2874	1228	1331	2219	2597	3380	3847	3844	3833
	End / Int. Bearing	1.6 / 3.9	1.7 / 4.2	2.8 / 6.9	3.3 / 8.1	4.2 / 10.5	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	1.6 / 3.9	1.7 / 4.2	2.8 / 6.9	3.3 / 8.1		4.8 / 12.0	4.8 / 12.0	4.8 / 12.0
4.41	Live Load L/240	561	608	1009	1187	1944	0070	0075	0007	748	810	1345	1582	2593	0.570	0507	0550
14'	Total Load	735	797	1330	1566	2260	2678	2675	2667	980	1063	1773	2088	3013	3570	3567	3556
	End / Int. Bearing	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.8 / 7.0	4.1 / 10.1	4.8 / 12.0	4.8 / 12.0	4.8 / 12.0	1.5 / 3.4	1.5 / 3.6	2.4 / 6.0	2.8 / 7.0	4.1 / 10.1		4.8 / 12.0	4.8 / 12.0
451	Live Load L/240	456	494	820	965	1581	2360	0.405	0.407	608	659	1094	1286	2108	3146	0007	0040
15'	Total Load	595	645	1078	1270	1966	2498	2495	2487	794	861	1438	1693	2622	3330	3327	3316
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.8 / 9.5		4.8 / 12.0	4.8 / 12.0	1.5 / 3.0	1.5 / 3.2	2.1 / 5.2	2.5 / 6.1	3.8 / 9.5		4.8 / 12.0	4.8 / 12.0
401	Live Load L/240	376	407	676	795	1303	1944	0000	0000	501	543	901	1060	1737	2593	0447	0400
16'	Total Load	488	530	886	1043	1717	2197	2338	2329	651	706	1181	1391	2290	2930	3117	3106
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.6 / 8.8		4.0 / 12.0	4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.6	2.2 / 5.4	3.6 / 8.8		4.8 / 12.0	4.6 / 12.0
17'	Live Load L/240 Total Load	405	339 439	564 736	663 867	1086 1429	1621 1944	2199	2190	540	452 586	751 981	884 1156	1448 1905	2161 2592	2931	2920
17	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.2 / 7.8	4.3 / 10.6	4.8 / 12.0		1.5 / 3.0	1.5 / 3.0	1.7 / 4.1	1.9 / 4.8	3.2 / 7.8	4.3 / 10.6		
	Live Load L/240	264	286	475	558	915	1366	1944	4.0 / 12.0	352	381	633	744	1220	1821	2593	4.0 / 12.0
18'	Total Load	339	368	617	728	1200	1731	2075	2067	452	491	823	971	1601	2309	2767	2756
10	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0			4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.6	1.7 / 4.3	2.8 / 7.0		4.8 / 12.0	
	Live Load L/240	224	243	404	475	778	1161	1653	4.07 12.0	299	324	538	633	1037	1548	2204	4.07 12.0
19'	Total Load	286	311	523	617	1018	1526	1921	1956	382	415	697	822	1357	2035	2561	2608
13	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	3.8 / 9.3		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.3	1.6 / 3.8	2.5 / 6.3	3.8 / 9.3		4.8 / 12.0
	Live Load L/240	192	208	346	407	667	996	1417	7.07 12.0	256	278	461	543	889	1327	1890	1.0 / 12.0
20'	Total Load	244	265	446	526	870	1305	1731	1857	325	353	594	702	1160	1740	2308	2476
20	End / Int. Bearing								4.8 / 12.0								
	Live Load L/240	144	156	260	306	501	748	1065	1.07 12.0	193	209	347	408	668	997	1420	7.07 12.0
22'	Total Load	180	196	331	391	649	975	1395	1685	240	261	441	522	865	1300	1860	2247
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.9 / 4.7	2.8 / 7.0		4.8 / 12.0
	Live Load L/240	111	120	200	236	386	576	820	1107 1210	148	161	267	314	515	768	1094	1107 1210
24'	Total Load	135	148	251	298	495	746	1069	1542	181	197	335	397	660	995	1425	2056
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0	2.4 / 5.9		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.6 / 4.0	2.4 / 5.9		4.8 / 12.0
	Live Load L/240	87	95	157	185	304	453	645		116	126	210	247	405	604	860	
26'	Total Load	104	113	194	231	385	582	835	1421	138	151	259	307	514	776	1114	1894
	End / Int. Bearing	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	2.0 / 5.0		4.8 / 12.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.0	1.5 / 3.4	2.0 / 5.0	2.9 / 7.1	4.8 / 12.0
	Live Load L/240	70	76	126	148	243	363	517	1224	93	101	168	198	324	484	689	1633
28'	Total Load	80	88	152	181	305	462	664	1317	107	117	203	242	406	615	885	1756
	End / Int. Bearing		1.5 / 3.0						4.8 / 12.0								
		7 0.0	/ 0.0	7 0.0	, 0.0	/ 0.0				, 0.0	7 0.0		, 0.0	7 0.0		/ 0.1	

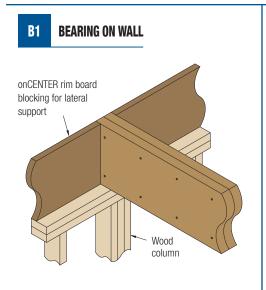
Live Load L/240 = Maximum live load (plf) with deflection limited to L/240

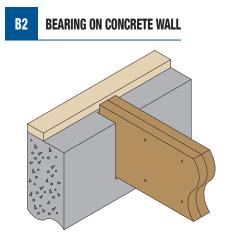
Total Load = Maximum total load (plf) with deflection limited to L/180

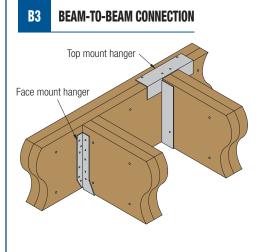
End / Int. Bearing = Minimum end and intermediate bearing length (inches) based on bearing stress of 750 psi, as provided by direct bearing on Hem-Fir, Southern Pine, or Douglas Fir-Larch cripples or on a properly specified hanger or steel column plate. For other conditions, see page 45.

onCENTER® LVL BEARING DETAILS

- Required bearing length depends on applied loads, but may not be less than 11/2" for end and 3" for intermediate bearings (see Bearing Length Requirements, page 45)
- Verify adequacy of supporting material to carry applied loads

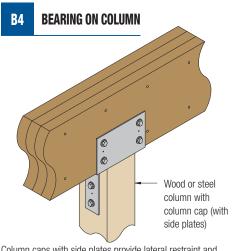




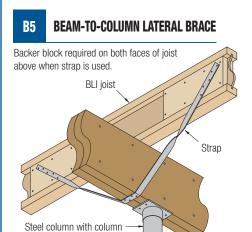


Protect onCENTER LVL from direct contact with concrete. Refer to local building code for requirements.

Install hangers per hanger manufacturer's instructions.



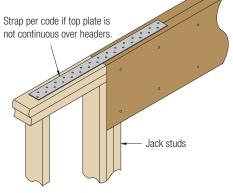
Column caps with side plates provide lateral restraint and load transfer. See pages 48-49.

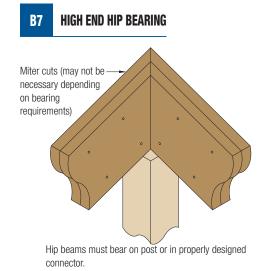


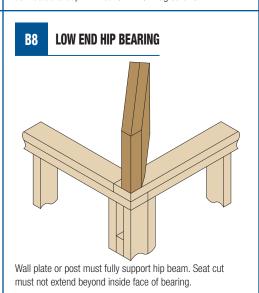
Strap not required if cap has side plates or if beam is connected to cap with four 3/8" x 21/2" lag screws.

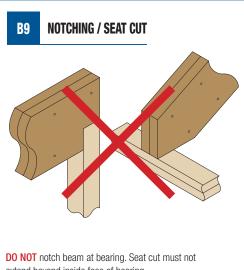
cap (no side plates)

BEARING FOR DOOR OR WINDOW HEADER Strap per code if top plate is

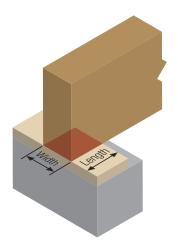








onCENTER® LVL BEARING LENGTH REQUIREMENTS



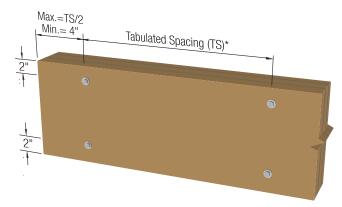
NOTES:

- 1. Minimum bearing length is 1½" at beam ends, and 3" at intermediate and cantilever supports.
- 2. Bearing must support entire width of beam.
- 3. Structural adequacy of supporting member to be determined by a design professional.
- 4. Provide restraint at supports and ends of beams to prevent lateral rotation.
- If onCENTER LVL beam bears directly on cripples (HF, SP, or DFL) or is supported by a hanger or steel column plate, use tabulated bearing lengths for onCENTER LVL beam. If onCENTER LVL beam bears directly on SPF cripples, use tabulated bearing lengths for Southern Pine.
- 6. Load duration adjustments to bearing lengths are not permitted.

								Support	Material							
		Hem-F (405	ir Plate i psi)		SPF o	r Non-Der (425	ise S. Pino i psi)	e Plate	:	Southern (565	Pine Plate psi)	9	C		LVL Bear psi)	n
Reaction								Beam	Width							
(lbs)	13/4"	3½"	51/4"	7"	1¾"	31/2"	51/4"	7"	13/4"	31/2"	51/4"	7"	1¾"	3½"	51/4"	7"
1,000	1½"	11/2"	1½"	11/2"	1½"	1½"	11/2"	11/2"	1½"	11/2"	1½"	11/2"	1½"	11/2"	11/2"	1½"
2,000	3"	11/2"	1½"	11/2"	2¾"	1½"	11/2"	11/2"	21/4"	1½"	11/2"	11/2"	13/4"	11/2"	11/2"	11/2"
3,000	41/4"	21/4"	1½"	11/2"	41/4"	21/4"	11/2"	1½"	31/4"	13/4"	11/2"	11/2"	21/2"	11/2"	11/2"	1½"
4,000	53/4"	3"	2"	11/2"	5½"	23/4"	2"	11/2"	41/4"	21/4"	11/2"	11/2"	31/4"	1¾"	11/2"	1½"
5,000	71⁄4"	3¾"	21/2"	2"	6¾"	31/2"	21/4"	13/4"	51/4"	23/4"	13/4"	11/2"	4"	2"	11/2"	1½"
6,000	81/2"	41/4"	3"	21/4"	81/4"	41/4"	23/4"	21/4"	61/4"	31/4"	21/4"	13/4"	43/4"	21/2"	13/4"	1½"
7,000	10"	5"	31/2"	21/2"	91/2"	43/4"	31/4"	21/2"	71/4"	33/4"	21/2"	2"	5½"	23/4"	2"	1½"
8,000	11½"	5¾"	4"	3"	11"	5½"	3¾"	23/4"	81/4"	41/4"	23/4"	21/4"	61/4"	31/4"	21/4"	13/4"
9,000		61/2"	41/4"	31/4"		61/4"	41/4"	31/4"	91/4"	43/4"	31/4"	21/2"	7"	31/2"	21/2"	13/4"
10,000		71/4"	43/4"	3¾"		6¾"	41/2"	3½"	101/4"	51/4"	31/2"	2¾"	7¾"	4"	23/4"	2"
11,000		8"	51/4"	4"		7½"	5"	3¾"	111/4"	5¾"	33/4"	3"	81/2"	41/4"	3"	21/4"
12,000		81/2"	5¾"	41/4"		81/4"	5½"	41/4"		61/4"	41/4"	3¼"	91/4"	43/4"	31/4"	2½"
13,000		91/4"	61/4"	43/4"		83/4"	6"	4½"		6¾"	41/2"	3½"	10"	5"	31/2"	21/2"
14,000		10"	63/4"	5"		9½"	61/2"	43/4"		71/4"	43/4"	3¾"	10¾"	5½"	3¾"	23/4"
15,000		10¾"	71/4"	5½"		101/4"	63/4"	51/4"		73/4"	51/4"	4"	11½"	5¾"	4"	3"
16,000		11½"	73/4"	5¾"		11"	71/4"	5½"		81/4"	5½"	41/4"		61/4"	41/4"	31/4"
17,000		12"	8"	6"		11½"	73/4"	53/4"		83/4"	53/4"	41/2"		61/2"	41/2"	31/4"
18,000			81/2"	6½"			81/4"	61/4"		91/4"	61/4"	43/4"		7"	43/4"	3½"
19,000			9"	6¾"			83/4"	61/2"		93/4"	61/2"	5"		71/4"	5"	3¾"
20,000			9½"	71/4"			9"	63/4"		101/4"	63/4"	51/4"		73/4"	51/4"	4"
21,000			10"	71/2"			91/2"	71/4"		10¾"	71/4"	51/2"		8"	5½"	4"
22,000			10½"	8"			10"	7½"		111/4"	7½"	5¾"		81/2"	53/4"	41/4"
23,000			11"	81/4"			10½"	73/4"		11¾"	8"	6"		9"	6"	41/2"
24,000			11½"	81/2"			11"	81/4"			81/4"	61/4"		91/4"	61/4"	43/4"
25,000			12"	9"			111/4"	81/2"			81/2"	61/2"		9¾"	6½"	5"

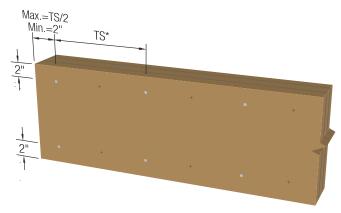
MULTIPLE-PLY LVL FASTENING GENERAL NOTES

Bolts & Screws



* See Multiple-Ply LVL Fastening, page 47.

16d Nails



(Graphic above shows 2 rows of pails applied to both faces)

- Table on page 47 shows required fastener spacings and number of rows. End and edge distances must comply with the above diagram. For offset fastening patterns, maximum end distance applies to all rows.
- 2. Tabulated values are capacities of fasteners only. Beam must also be designed to support design loads.
- 3. If beam supports side loads from both faces, use the greater side load to determine proper fastening.
- 4. Bolded and italicized uniform load values require that fasteners be applied to both faces. On the back face, offset half the spacing from the front face.
- 5. Fastening for depths less than 71/4" requires special consideration by BlueLinx.
- 6. Fasteners must have full embedment of the shank, but must not be over-driven, over-tightened, or countersunk.
- 7. Bolt hole diameter must be ½2" to ½6" larger than bolt diameter. Bolts are to meet ASTM A307 or SAE J429 grades. Bolts must extend through full thickness of member and at least ½" beyond. Use a washer under head and nut.
- 8. Carriage bolts (1/2" diameter) may be used for through bolts. Carriage bolt heads may be drawn into the face of the LVL such that the top of the heads are even with the exterior face of the outer ply.
- 9. Load capacity can be doubled if fastener spacing is halved for a particular application.
- 10. For through bolts or screws spaced 19.2" o.c., use the average of the tabulated values for 24" and 16" o.c. spacing.
- 11. Special consideration must be given for supporting large concentrated loads, such as from a beam, onto the side face of an LVL beam.
- 12. Beams that are 7" wide must be top-loaded or side-loaded from both faces to minimize rotation.
- 13. Multiple member beams greater than 7" wide are not permitted.
- 14. Uniform loads shown are based on 100% LDF. Capacities can be increased for roof LDF of 115% and 125% if allowed by local building code.
- 15. WS structural screws are produced by United Steel Products Company. SDS and SDW structural screws are produced by Simpson Strong-Tie® Company, Inc. TrussLOK® structural screws are produced by FastenMaster-OMG, Inc. Install screws per manufacturers' guidelines.

TOP-LOADED MULTIPLE-PLY LVL FASTENING

When all loads are evenly applied to the top surface of all plies, use minimum fastening requirements for each combination of fastener type, member plies, and member depth within the table on page 47. Tabulated uniform load values can be ignored as they are only applicable for side-loaded multiple-ply members.

EXAMPLE 1 - 3 plies of 14" LVL (51/4" wide)

16d pneumatic nails: 3 rows of fasteners at 12" o.c. on both faces

½" through bolts: 2 rows of bolts at 24" o.c.
TrussLOK screws: 2 rows of 5" screws at 24" o.c.

EXAMPLE 2 - 4 plies of 24" LVL (7" wide)

16d common nails: Not applicable

½" through bolts: 3 rows of bolts at 24" o.c. SDW22 screws: 3 rows of 634" screws at 24" o.c.

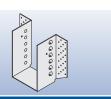
SIDE-LOADED MULTIPLE-PLY LVL FASTENING

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

	Fastener	Fastener	3½"	Wide (2-ply 1	3/4")	5¼"	Wide (3-ply 1	l ³ ⁄4")	7" Wide (4	l-ply 1¾")
Fastener Type	Rows	Spacing	7¼"-11%"	14"-18"	24"	71/4"-117/8"	14"-18"	24"	7¼"-18"	24"
16d Pneumatic Nails (0.131" x 3.5")	2 (shown) 3 4	12" 12" 12"	388 583 777	583 777	777	291 437 583	437 583	583		
16d Common Nails (0.162" x 3.5")	2 (shown) 3 4	12" 12" 12"	564 845 1127	845 1127	1127	423 634 845	634 845	845		
½" Through Bolts	2 (shown)	24" 16" 24" 16"	507 761 761 1142	507 761 761 1142	761 1142	381 571 571 856	381 571 571 856	571 856	338 507 507 761	507 761
	2 (shown)	24" 16"	487 730	/2" Screw Leng 487 730		365 547	² " Screw Lengt 365 547	uı	6" Screv 324 487	v Lengui
WS Screws	3	24" 16"	730 1095	730 1095	730 1095	547 821	547 821	547 821	487 730	487 730
SDS Screws	2 (shown)	24" 16" 24" 16"	680 1020 1020 1530	680 1020 1020 1530	1020 1530	510 765 765 1148	510 765 765 1148	765 1148	453 680 680 1020	680 1020
				%" Screw Leng	th	_ 5	" Screw Length	h	6¾" Scre	w Length
	2	24"	800	800		450	450		400	
SDW22 Screws	3 (shown)	16" 24" 16"	1200 1200 1800	1200 1200 1800	1200 1800	675 675 1013	675 675 1013	675 1013	600 600 900	600 900
TrussLOK Screws	2	24" 16"	534 801	534 801		398 597	398 597		354 530	
	3 (shown)	24" 16"	801 1201	801 1201	801 1201	597 895	597 895	597 895	530 795	530 795

USP STRUCTURAL CONNECTORS™ FOR LVL





Supported	LVL Member	USP Top	Mount	USP Face	Mount
Width	Depth	Model Name	Capacity 100% (lbs)	Model Name	Capacity 100% (lbs)
	71/4"	PHXU17725	4266	HD1770	1975
	91/4"	BPH17925	3117	HUS179	3938
1¾"	91/2"	BPH1795	3117	HUS179	3938
174	111/4"	BPH17112	3117	HUS179	3938
	111//8"	BPH17118	3117	HUS179	3938
	14"	BPH1714	3117	HUS179	3938
	71/4"				
	91/4"	PHXU35925	6650	THDH410	8260
	91/2"	PHXU3595	6650	THDH410	8260
	111/4"	PHXU35112	6650	THDH412	9845
31/2"	111//8"	PHXU35118	6650	THDH412	9845
	14"	PHXU3514	6650	THDH414	9845
	16"	PHXU3516	6650	THDH414	9845
	18"	PHXU3518	6650	THDH414	9845
	24"	PHXU3524	6650	HD418	3950
	7¼"				
	91/4"	PHXU55925	6650	THDH610	8725
	9½"	PHXU5595	6650	THDH610	8725
	11¼"	PHXU55112	6650	THDH612	9935
51/4"	11%"	PHXU55118	6650	THDH612	9935
	14"	PHXU5514	6650	THDH614	11645
	16"	PHXU5516	6650	THDH614	11645
	18"	PHXU5518	6650	THDH614	11645
	24"				
	91/4"	HLBH71925	10620	THDH7210	8260
	91/2"	HLBH7195	10620	THDH7210	8260
	11¼"	HLBH71112	10620	THDH7212	9845
7"	11%"	HLBH71118	10620	THDH7212	9845
,	14"	HLBH7114	10620	THDH7214	9845
	16"	HLBH7116	10620	THDH7214	9845
	18"	HLBH7118	10620	THDH7214	9845
	24"	HLBH7124	10620	HD7180	3950

		USP Bean	n-to-Column Cap	S		
			Beam Saddle		Colu	nn Saddle
Model Name	Capacity 100% (lbs)	Width	Length	Height	Width	Column
KCCQ44	24065	35/8"	11"	6½"	35/8"	4x wood
KCCQ46	24065	35/8"	11"	6½"	5½"	6x wood
KCCQ48	24065	35/8"	11"	6½"	7½"	8x wood
KCCQ64	37815	51/2"	11"	6½"	35/8"	4x wood
KCCQ66	37815	5½"	11"	6½"	5½"	6x wood
KCCQ68	37815	5½"	11"	6½"	7½"	8x wood
KCCQ84	51565	71/2"	11"	6½"	35/8"	4x wood
KCCQ86	51565	7½"	11"	6½"	5½"	6x wood
KCCQ88	51565	7½"	11"	6½"	7½"	8x wood
KLCC35-4	21000	35/8"	11½"	4"		4" dia. steel
KLCC525-4	21000	5¾"	11½"	4"		4" dia. steel
KLCC7-4	21000	71/8"	11½"	4"		4" dia. Steel

NOTES

- 1. Hanger capacity based on load duration factor of 100% (floor), hanger manufacturer's recommended nailing, minimum supporting beam (onCENTER LVL) width of 3½" for top mount hangers and 1¾" for face mount hangers. Before selecting hangers, please refer to hanger manufacturer's literature for expanded design information.
- 2. Capacity of beam-to-column connectors is the maximum capacity of the cap itself. Column adequacy to be verified by a design professional.

SIMPSON STRONG-TIE® CONNECTORS FOR LVL





Supported	LVL Member	Simpson To	p Flange	Simpson Fa	ce Mount
Width	Depth	Model Name	Capacity 100% (lbs)	Model Name	Capacity 100% (lbs)
	71/4"	WP1.81/7.25	3635	HU7	2380
	91/4"	WP9.25	3635	HUS1.81/10	3938
1¾"	91/2"	WP9	3635	HUS1.81/10	3938
174	111/4"	LBV1.81/11.25	2910	HUS1.81/10	3938
	111//8"	WP11	3635	HUS1.81/10	3938
	14"	WP14	3635	HUS1.81/10	3938
	71/4"	WPU3.56/7.25	4700	HGUS48	7460
	91/4"	HWU3.56/9.25	6335	HGUS410	9100
	91/2"	HWU3.56/9.5	6335	HGUS410	9100
	111/4"	HWU3.56/11.25	6335	HGUS412	9600
3½"	11%"	HWU3.56/11.88	6335	HGUS412	9600
	14"	HWU3.56/14	6335	HGUS414	10100
	16"	HWU3.56/16	6335	HGUS414	10100
	18"	HWU3.56/18	6335	HGUS414	10100
	24"	HWI424	5100		
	71/4"	WPU5.50/7.25	4700	HGUS5.50/8	7460
	91/4"	HWU5.50/9.25	6000	HGUS5.50/10	9100
	9½"	HWU5.50/9.5	6000	HGUS5.50/10	9100
	11¼"	HWU5.50/11.25	6000	HGUS5.50/12	9600
51/4"	11%"	HWU5.50/11.88	6000	HGUS5.50/12	9600
	14"	HWU5.50/14	6000	HGUS5.50/14	10100
	16"	HWU5.50/16	6000	HGUS5.50/14	10100
	18"	HWU5.50/18	6000	HGUS5.50/14	10100
	24"				
	9¼"	GLTV49.25-2	7500	HGUS7.25/10	9100
	9½"	GLTV49.5-2	7500	HGUS7.25/10	9100
	11¼"	HGLTV411.25-2	10500	HGUS7.25/12	9600
7"	11%"	HGLTV411.88-2	10500	HGUS7.25/12	9600
•	14"	HGLTV414-2	10500	HGUS7.25/14	10100
	16"	HGLTV416-2	10500	HGUS7.25/14	10100
	18"	HGLTV418-2	10500	HGUS7.25/14	10100
	24"	HGLTV7.12/24	10500		

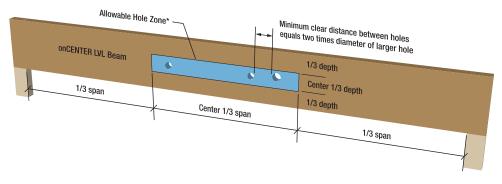
		Simpson Be	am-to-Column C	aps		
			Beam Saddle		Colu	mn Saddle
Model Name	Capacity 100% (lbs)	Width	Length	Height	Width	Column
CC44	15310	35/8"	7"	4"	35/8"	4x wood
CC46	24060	35/8"	11"	61/2"	5½"	6x wood
CC48	24060	35/8"	11"	61/2"	7½"	8x wood
CC64	28586	51/2"	11"	61/2"	35/8"	4x wood
CC66	30250	5½"	11"	61/2"	5½"	6x wood
CC68	37810	5½"	11"	61/2"	7½"	8x wood
CC86	41250	7½"	13"	8"	5½"	6x wood
CC88	54600	7½"	13"	8"	7½"	8x wood
LCC3.5-4	20670	35/8"	11½"	4"		4" dia. steel
LCC5.25-4	20670	5%"	11½"	4"		4" dia. steel
LCC7-4	20670	71/8"	11½"	4"		4" dia. steel

NOTES:

- 1. Hanger capacity based on load duration factor of 100% (floor), hanger manufacturer's recommended nailing, minimum supporting beam (onCENTER LVL) width of 3½" for top mount hangers and 1¾" for face mount hangers. Before selecting hangers, please refer to hanger manufacturer's literature for expanded design information.
- 2. Capacity of beam-to-column connectors is the maximum capacity of the cap itself. Column adequacy to be verified by a design professional.



HOLES IN onCENTER® LVL







DO NOT cut, notch, or drill onCENTER LVL except as shown in this guide.

Allowable Hole Sizes

Beam Depth	Maximum Round Hole Diameter
71/4"	1½"
91/4" - 24"	2"

NOTES:

- 1. Hole(s) must be located entirely in the Allowable Hole Zone.
- Rectangular holes not allowed.
- 3. No more than 3 holes allowed per span.
- Table applies to single and multiple span uniformly loaded beams only. Table not valid for cantilevers.
- To avoid problems with rigid pipes, consider hole location, clearance, and effects of beam deflection.

LVL STORAGE, HANDLING, AND INSTALLATION

- Do not store onCENTER LVL in direct contact with the ground. Air circulation is required around material stacks and beneath covering.
- Protect onCENTER LVL from weather.
- · Keep bundles covered with factory wrap until time of use.
- onCENTER LVL must be handled and stacked flat wise.
- Goggles, gloves, and other personal protective equipment should be used when handling or installing onCENTER engineered lumber.
- SDS information is available from BlueLinx.
- onCENTER framing members must be installed per code. Permanent installation must not be in direct contact with masonry or concrete.
- Materials must be protected from weather and installed in dry-use conditions where moisture content is less than 16%.
- Use common, box, or sinker type nails when nail type is not otherwise specified in this guide.
- All bearings must be sized based on applied loads, but in no case shall end bearing be less than 1½" and intermediate bearing less than 3".
- onCENTER LVL must be restrained from rotation at ends and each support. The top (or compression) edge must be laterally supported at 24" on-center or closer by bracing or by perpendicular flush framing. Properly installed sheathing directly attached to the compression edge is generally acceptable for lateral restraint.
- 1¾" onCENTER LVL beams with depths exceeding 14" are to be used in multiple-ply applications only (e.g. 2 plies of 16" LVL).

- See pages 46 & 47 for multiple-member fastening requirements.
- When nailing into the narrow face of onCENTER LVL: for one row of nails, nails must be spaced no closer than 3" (8d commons), 4" (10d commons), or 8" (16d commons). For two rows, increase spacing to 4" (8d commons) and 5" (10d commons). Maximum nail penetration into the LVL is 2½" (2" for 16d commons). Minimum end distance is 2½" (3½" for 10d if two rows, and for 16d commons).
- Do not stagger-splice onCENTER LVL beams as is commonly done
 with dimension lumber. If the multiple span length exceeds the
 available length of LVL, LVL ends must butt over a common bearing.
- onCENTER LVL is produced without camber, so either narrow face can be at the top.
- In code-prescribed light-frame wood construction, it may be possible
 to substitute onCENTER LVL for dimension lumber roof members
 as its design properties exceed those of typical framing lumber.
 However, design of conventional construction is beyond the scope of
 this guide and of BlueLinx Engineered Lumber Technical Services.
- With fire-retardant or preservative treated wood, use only stainless steel or hot-dipped galvanized connectors, fasteners, and hardware as required by code. Hot-dipped galvanized fasteners should conform to ASTM Standard A 153 and hot-dipped connectors should conform to ASTM Standard A 653 (Class G-185) to meet minimum requirements. Stainless steel connectors and fasteners should be used in demanding applications or in highly corrosive environments. Check local building codes as they may mandate their usage.

GREEN BUILDING CERTIFICATION ELIGIBILITY

National Green Building Standard (ICC 700-2012)

Section	Section Intent	Possible Points	Conditions of Use to Qualify for Points
601.2	Material usage: Structural systems are designed or construction techniques are implemented that reduce and optimize material usage.	3 each 6 max.	1) Minimize structural members necessary for strength and stiffness in accordance with advanced framing techniques. 2) Higher-grade materials are used than commonly specified with component sizes reduced accordingly.
601.4	Framing and structural plans: Detailed framing or structural plans, material quantity lists and on-site cut lists for framing, structural materials, and sheathing materials are provided.	4	Framing layouts and material cut lists must be generated for use on the job site.
606.1	Biobased products: Two types of biobased materials are used, each for more than 1 percent of the project's projected building material cost.	6	To earn 6 points this product must be more than 1% of the construction material cost AND another bio-based product, also more than 1% of material cost, must be used. Lesser points are available at the 0.5% level.
606.2 (2)	Wood based products: Wood or wood-based products are certified to the requirements of specified recognized product programs (e.g., SFI).	4	To earn 4 points two certified wood products must be used as major building elements (e.g., walls, floors, roof).
608.1	Resource-efficient materials: Products containing fewer materials are used to achieve the same end-use requirements as conventional products.	3	Engineered wood products are used in the building.
609.1	Regional materials: Regional materials are used for major elements of the building.	2	Materials used must originate, be produced, grow naturally, or occur naturally in a region within: (1) 500 miles of the construction site if transported by truck or (2)1500 miles of the construction site if transported for not less than 80% of the total transport distance by rail.

USGBC LEED® for Homes 2008

Section	Section Intent	Possible Points	Conditions of Use to Qualify for Points
MR 1.2	Detailed framing documents	1	To earn 1 point, detailed framing layouts for all walls, floors, and roofs must be generated.
MR 1.3	Detailed cut list and lumber order	1	To earn 1 point, a detailed cut list that corresponds to the detailed framing documents must be generated.
MR 1.4	Framing efficiencies	3	To earn 1 point for floor, roof, or wall framing, designated framing methods must be followed. 3 points are possible if used for all three types of framing.
MR 2.2 (c)	Environmentally preferable materials: Local production	0.5 each 8 max	To earn points, at least 90% of a given component (by weight or volume) must have been extracted, harvested, recovered, or manufactured locally within 500 miles of the project site.

USGBC LEED 2009 for New Construction and Major Renovations

Section	Section Intent	Possible Points	Conditions of Use to Qualify for Points
MR 5	Regional materials	1-2	To earn 1 point, a minimum of 10% of the total cost of products used must have been extracted, processed, and manufactured within 500 miles of the job site. To earn 2 points use a minimum of 20%.
IEQ 4.4	Low-emitting materials	1	To earn 1 point, use wood composite products containing no added urea- formaldehyde resins.

onCENTER® ADVANCED FRAMING LUMBER (AFL)



GLULAMS



In addition to the onCENTER family of products, BlueLinx also stocks glued-laminated beams and columns in many of our warehouse locations. Often used as a one piece alternative to multiple plies of LVL, glulams are available in a wide range of grades, widths, and depths to fit just about any engineered lumber need.

- Industrial Appearance Economical choice for typical structural needs
- Architectural Appearance Special order glulams when exposed beams are desired
- Pressure Treated For wet applications like exposed decks and porches
- I-Joist Compatible Depths Maintain flush applications with a BLI joist floor system
- Multiple Grades 1.6E to 2.1E, balanced / unbalanced, cambered / uncambered
- Columns When design loads require an engineered product







DOMA STUDIO™

The entire on CENTER® product line is supported in **Doma Studio** - a powerful, all-encompassing suite of software programs to perform engineering analysis, draw and design in 3D, and optimize product usage. Confidently draw and design with easy to use interfaces. Perform structural analysis on floor joists, beams, columns, and roof rafters outside the scope of on CENTER Product Guides.

Doma Sizer™

Structural analysis is simplified with this user-friendly software that can design joists, beams, and columns quickly and easily with clear printable output.

- Determine optimum onCENTER Engineered Lumber product based on cost, availability, size, and spacing
- Multiple entry options handle a vast array of loading conditions and combinations
- · Compare multiple products simultaneously for value engineering
- Analyze I-joist web holes, cantilever reinforcements, and beams with bevel end cuts
- · Hangers, side-loaded multiple member fastening, LVL / AFL holes



Doma Framer™

A quick and efficient drawing tool with completely integrated design capabilities to generate floor and roof framing layouts and accompanying material lists.

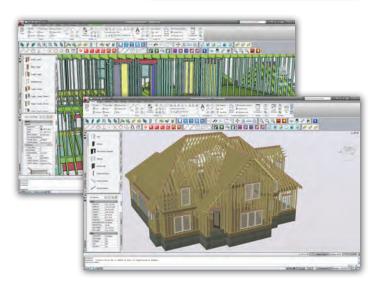
- · Gravity-load development and tracking from roof down
- Variety of AutoCAD-like user input methods:
 - menus
 - toolbars
 - commands
 - keyboard aliases
- Customizable toolbars and user preferences
- Includes full library of onCENTER framing details
- Built-in pricing capability
- Native DWG format

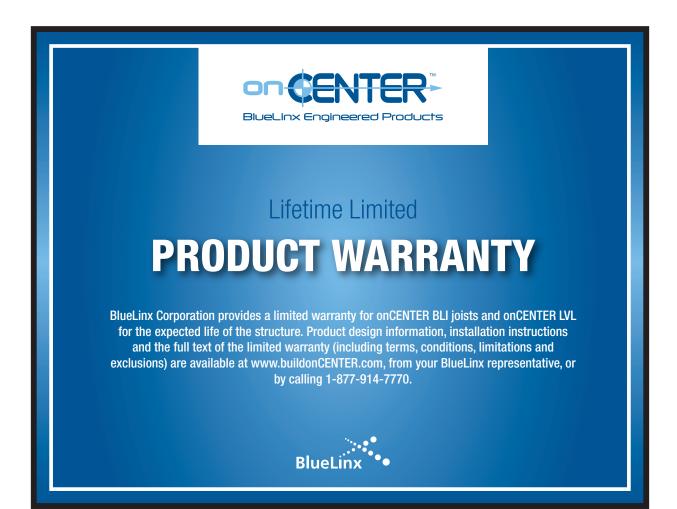
| The control of the

Doma Builder™

Incorporates the onCENTER line of products into an AutoCAD® Architecture drawing environment to provide complete 3D modeling and gravity-load tracking, along with complete framing component lists.

- Built on AutoCAD Architecture's platform with parametric, 3D building modeling capabilities with the ease of drawing in 2D
- 3D dynamic 'live' sections at any time during the drawing process
- Integrated design that includes load tracking and beam and joist analysis
- Automatically generates material schedules and price quotes for structural products





General:

The sale of BlueLinx' Engineered Lumber Products shall be subject to BlueLinx' standard terms of sale located at www.bluelinxco.com/terms/salestermsandconditions.doc. BlueLinx reserves the right to revise the information located in BlueLinx' standard terms of sale or in this document without notice.

Installation:

Purchaser is responsible for proper installation of BlueLinx engineered lumber products. BlueLinx' engineered lumber products must be installed in conformance with this installation guide and in compliance with all applicable laws, ordinances, building code requirements, and regulations. BlueLinx does not warrant and is not responsible for the design or construction of any finished structure into which BlueLinx' engineered lumber products are incorporated. Finally, BlueLinx is not responsible for any other building components used with BlueLinx' engineered lumber products.

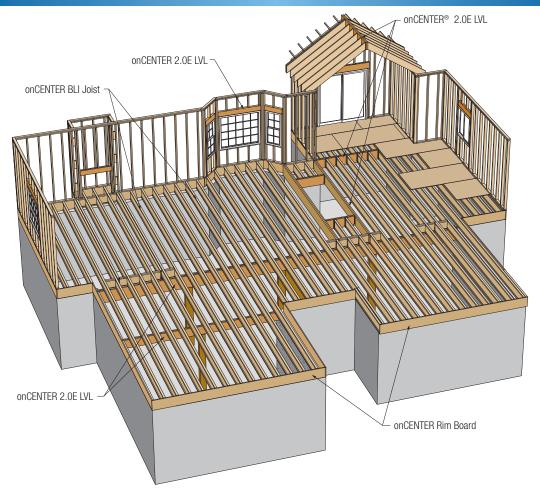
Limitation of Liability:

EXCEPT AS PROVIDED UNDER THE LIMITED WARRANTY FOR ONCENTER BRANDED PRODUCTS, BLUELINX FULLY DISCLAIMS, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE,

CONDITION OR QUALITY OF THE PRODUCT OR SERVICE, OR ANY TRADE USAGE (EXCEPT FOR THOSE IMPLIED WARRANTIES APPLICABLE UNDER LAW, WHICH, WHERE PERMITTED BY APPLICABLE LAW, ARE HEREBY DEEMED LIMITED TO THE DURATION OF THE GIVEN WARRANTY PERIOD STATED HEREIN) WHETHER OR NOT THE PURPOSE HAS BEEN DISCLOSED AND WHETHER OR NOT THE PRODUCT HAS BEEN SPECIFICALLY DESIGNED OR MANUFACTURED FOR THE QUALIFIED OWNER'S USE OR PURPOSE. UNDER NO CIRCUMSTANCES SHALL BLUELINX BE LIABLE FOR ANY LOST OR PROSPECTIVE PROFITS, LOSSES OR DAMAGES ARISING FROM DELAY IN PERFORMANCE, OR FROM ATTEMPTS OR FAILURE TO REMEDY DEFECTS, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), OR FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, OR PUNITIVE DAMAGES ARISING OUT OF THE PURCHASE, USE, OR INSTALLATION OF THE PRODUCT OR RESULTING FROM THE BREACH OF THIS LIMITED WARRANTY. OR ANY IMPLIED WARRANTY. IN NO EVENT SHALL THE CUMULATIVE LIABILITY OF BLUELINX EXCEED THE PURCHASE PRICE OF THE DEFECTIVE PRODUCT GIVING RISE TO THE CLAIM. WARRANTY CLAIMS SHALL BE CONSIDERED WAIVED IF NOT SUBMITTED TO BLUELINX IN WRITING WITHIN THIRTY (30) DAYS AFTER DISCOVERY. ANY CLAIMS OF DAMAGE CAUSED BY MOLD OR MILDEW ARE EXPRESSLY EXCLUDED.

BlueLinx Engineered Products

ENGINEERED LUMBER





BlueLinx Corporation

4300 Wildwood Parkway Atlanta, GA 30339 1-877-914-7770 www.buildonCENTER.com

Dealer information:

DOMA STUDIO and ONCENTER are registered trademarks, DOMA SIZER is a trademark, and BLUELINX and the BLUELINX design are trademarks and registered service marks of BlueLinx Services, Inc. APA RATED and STURD-I-FLOOR are registered trademarks of APA—The Engineered Wood Association. TRUSSLOK and FASTENMASTER are registered trademarks of Olympic Manufacturing Group, Inc. SIMPSON STRONG-TIE is a registered trademark of Simpson Strong-Tie Company, Inc. USP STRUCTURAL CONNECTORS is a trademark of United Steel Products Company. SFI is a registered trademark of Sustainable Forest Initiative, Inc., LEED is a registered trademark of the USGBC, and Green Globes is a registered trademark of the Green Building Initiative.

©2016 BlueLinx Corporation. All rights reserved.

Printed in the U.S.A. on recycled paper.

May 2016 Lit. Item #0CLPG