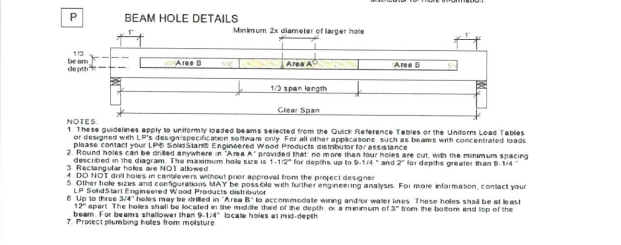


- TO USE:**
- Select the required spans and depth.
 - Determine the support condition for the nearest bearing end support or interior support (including cantilever end support).
 - Select the row corresponding to the required Clear Span. For spans between those listed, use the next larger value.
 - Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
 - The intersection of the Clear Span row and Hole Diameter column gives the minimum distance from the inside face of bearing to the center of a circular hole.
 - Double check the distance to the center support, using the appropriate support condition.

Depth	Clear Span (ft)	Distance from End Support										Distance from Interior or Cantilever-End Support									
		2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"		
14'	14'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	2'-2"	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
	18'	1'-0"	1'-0"	1'-5"	3'-1"	4'-6"	1'-8"	2'-10"	3'-11"	5'-1"	6'-3"	-	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
	22'	1'-5"	2'-9"	4'-1"	5'-6"	7'-0"	4'-2"	5'-4"	6'-5"	7'-7"	8'-9"	-	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
	26'	3'-8"	5'-0"	6'-5"	8'-0"	9'-8"	6'-8"	7'-10"	8'-11"	10'-1"	11'-4"	-	-	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
16'	18'	1'-0"	1'-0"	1'-4"	2'-5"	3'-7"	4'-11"	1'-0"	2'-6"	3'-6"	4'-6"	5'-6"	6'-6"	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
	22'	1'-4"	2'-5"	3'-6"	4'-9"	6'-1"	7'-5"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
	26'	3'-6"	4'-8"	5'-11"	7'-2"	8'-7"	10'-1"	6'-6"	7'-6"	8'-6"	9'-6"	10'-6"	11'-9"	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		
	30'	5'-9"	7'-0"	8'-4"	9'-9"	11'-3"	12'-10"	9'-0"	10'-0"	11'-0"	12'-0"	13'-2"	14'-8"	1'-0"	1'-0"	1'-5"	2'-7"	3'-0"	3'-0"		

- DESIGN ASSUMPTIONS:**
- The hole locations listed above are valid for floor joists supporting only uniform loads. The total uniform load shall not exceed 100 psf (e.g., 40 psf Live Load and 25 psf Dead Load spaced 24" oc).
 - Hole location is measured from the inside face of bearing to the center of a circular hole, from the closest support.
 - Clear Span has not been verified for these joists and is shown for informational purposes only. Verify that the joist selected will work for the span and loading conditions needed before checking hole location.
 - The maximum hole depth for circular holes is the joist depth less 4, except the maximum hole depth is 6" for 1-1/2" LP joists, and 8" for 11-7/8" LP joists.
 - Holes cannot be located in the span where designated "X", without further analysis by a design professional.
- NOTES:**
- Holes may be placed anywhere within the depth of the joist. A minimum 1/4" clear distance is required between the hole and the flanges.
 - Round holes up to 1-1/2" diameter may be placed anywhere in the web.
 - Perforated "inoculoids" may be neglected when tearing web holes.
 - Holes larger than 1-1/2" are not permitted in cantilevers without special engineering.
 - Multiple holes shall have a clear separation along the length of the joist of at least twice the length of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
 - Multiple holes may be spaced closer provided they fit within the boundary of an acceptable larger hole. Example: two 3" round holes aligned parallel to the joist length may be spaced 2" apart. Clear distance provides that a 7" high by 8" long rectangle or an 8" diameter round hole are acceptable for the joist depth at that location and completely encompass the holes.
 - For conditions not covered in this table, use LP's design software or contact your local LP SolidStart® Engineered Wood Products distributor for more information.



- NOTES:**
- These guidelines apply to uniformly loaded beams selected from the Quick Reference Tables or the Uniform Load Tables or designed with LP's design software. For all other applications, such as beams with concentrated loads, please contact your LP SolidStart® Engineered Wood Products distributor for assistance.
 - Round holes can be drilled anywhere in "Area A" provided that no more than four holes are cut, with the minimum spacing described in the diagram. The maximum hole size is 1-1/2" for depths up to 9'-14" and 2" for depths greater than 9'-14".
 - Rectangular holes are NOT allowed.
 - DO NOT drill holes in cantilevers without prior approval from the project designer.
 - Other hole sizes and configurations MAY be possible with further engineering analysis. For more information, contact your LP SolidStart® Engineered Wood Products distributor.
 - Up to three 2-1/2" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes shall be at least 1" apart. The holes shall be located in the middle third of the depth or a minimum of 3" from the bottom and 3" from the top.
 - For beams stabilized to 9'-14" scale holes at mid-depth.
 - Protect plumbing holes from moisture.



2nd Flr Joist (Finish)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
J6	LP Joist 20Fus	2.5	14		11	28'-0"	
J6	LP Joist 20Fus	2.5	14		8	18'-0"	
J5	LP Joist 20Fus	2.5	14		22	16'-0"	
J4	LP Joist 20Fus	2.5	14		2	6'-0"	

1st Flr LSL (Finish)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
FB1	LP-LVL 1.55E	3.5	14		1	6'-0"	
FB3	LP-LVL 2900FB-2.0E	1.75	14		1	10'-0"	
FB2	LP-LVL 2900FB-2.0E	1.75	14		1	6'-0"	
FB4	LP-LVL 2900FB-2.0E	1.75	20	1	2	22'-0"	

1st Flr LSL (Dropped)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
FB4	LP-LVL 1.55E	3.5	9.25		1	10'-0"	
HD1-B	LP-LVL 1.55E	5.5	9.25		1	8'-0"	
HD1-A	LP-LVL 1.55E	3.5	9.25		1	8'-0"	
HD3	LP-LVL 1.55E	3.5	14		1	22'-0"	

Beam by Others (Dropped)

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
FB2	[2x10]		4	2	8	12'-0"	
FB3	[2x10]		3	2	4	6'-0"	

Rim Board

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
R2	LP APA Rated OSB 1.125 X 14	1.125	14		13	12'-0"	

Blocking

Label	Description	Width	Depth	Qty	Pieces	Pcs	Length
BK2	LP Joist 20Fus	2.5	14		1	27'-0"	

Hange

Label	Description	Skew	Slope	fasteners	Supported Member
H1	[HSL 11/10]			30 16d	10 16d
H2	[HSL 56/14 (Nfm)]			12 10d	

2ND FLOOR FRAMING

SCALE: 1/4" = 1'



2160 Satellite Blvd., Suite 450
Duluth, GA 30097
888-613-5078



Dealer
84 Lumber-Fayetteville #2307
Dealer Address
620 Belt Road
Fayetteville, NC 28301
(910) 867-9185

Project
202059
Created
September 03, 2020
Layout Name
202008-20369
Description
Crivens Land
CL2335-275 Forest Oaks
Designer
Kyle Hittner

2nd Flr

Design Method ASD (USA)
Building Code IRC/IBC 2015

Floor

Live 40
Dead 10

Deflection Joist
LL Span L/ 480
LL Span L/ 240
LL Cam 2L/ 240
TL Cam 2L/ 360
Deflection Girder
LL Span L/ 180
LL Span L/ 240
LL Cam 2L/ 240
LL Cam 2L/ 180

Decking OSB
23/32 APA Rated Stud-1-Floor
Nailed & Glued

Fastener Nailed & Glued

Legend

- Point Load Support
- Load from Above
- Foundation Wall
- 3.5" Ext Wall
- 3.5" Int Wall
- 5.5" Int Wall
- 3.5" Non-Big Wall
- 5.5" Non-Big Wall
- Wall Opening
- LP APA Rated OSB 1.125 X 14
- LP Joist 20Fus 14
- 5.5" Int Wall
- 5.5" Non-Big Wall
- LP-LVL 1.55E 3.5 X 9.25 (Dropped)
- LP-LVL 1.55E 3.5 X 14 (Dropped)
- LP-LVL 2900FB-2.0E 1.75 X 14
- LP-LVL 2900FB-2.0E 1.75 X 20
- 1.5 X 9.25 (Dropped)



