LP SOLIDSTART I-JOISTS RESIDENTIAL CONSTRUCTION U.S. TECHNICAL GUIDE

LPI[®] 530 Series





11

PRODUCT SPECIFICATIONS & DESIGN VALUES

THESE TABLES MUST BE USED IN CONJUNCTION WITH THE LP® SOLIDSTART® TECHNICAL GUIDE FOR RESIDENTIAL CONSTRUCTION.

DESIGN VALUES

Carles	Dawth	Weight	Moment	EI (x 106)	K (x 10 ⁶)	Shear
Series	Depth	(plf)	(lb-ft)	(lb-in²)	(lb-ft/in)	(lbs)
	9-1/2"	2.3	4000	200	0.478	1340
LPI 530	11-7/8"	2.5	5150	337	0.591	1565
LPI 530	14"	2.8	6110	492	0.693	1765
	16"	3.0	6990	666	0.789	1955

NOTES:

LP I-Joists shall be designed for dry-use conditions only. Dry-use applies to products installed in dry, covered and well ventilated interior conditions 1. in which the equivalent moisture content in lumber will not exceed 16%.

w = uniform load (plf)

L = design span (ft)

Where: Δ = deflection (in)

2. Moment and Shear are for normal load duration and shall be adjusted according to code.

Κ

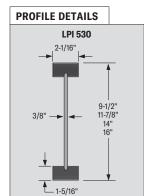
3. Moment shall not be increased for repetitive member use. 4.

Deflection calculations shall include both bending and shear deformations.

Deflection for a simple span, uniform load: $\Delta = \frac{22.5 \text{wL}^4}{\text{wL}^2} + \frac{\text{wL}^2}{\text{wL}^2}$

El = bending stiffness (from table)

K = shear stiffness (from table)



Equations for other conditions can be found in engineering references.

FL

Refer to APA Product Report PR-L238

REACTION AND REARING CAPACITY

NEAU		D DEARING OF								
			End Reaction	Capacity¹ (lbs)			Interior Reactio	n Capacity¹ (lbs)		Flange Bearing
Series	Depth	Minimum Bea	aring (1-1/2")	Maximum E	Bearing (4")	Minimum Bea	aring (3-1/2")	Maximum Bea	aring (5-1/2")	Capacity ²
		W/out Stiffeners	With Stiffeners	W/out Stiffeners	With Stiffeners	W/out Stiffeners	With Stiffeners	W/out Stiffeners	With Stiffeners	(lb/in)
	9-1/2"	880	1125	1095	1340	2065	2300	2265	2500	
LPI 530	11-7/8"	880	1245	1120	1565	2120	2485	2400	2735	1095
LF1 330	14"	880	1350	1145	1765	2165	2655	2525	2945	1035
	16"	880	1450	1165	1955	2210	2810	2640	3140	

NOTES

- End and Interior Reaction Capacity shall be limited by the Flange Bearing Capacity or the bearing capacity of the support material, whichever is less.
- 2. The Flange Bearing Capacity, per inch of bearing length, is based on the allowable compression perpendicular-to-grain of the I-Joist flange, accounting for eased edges.
- 3. To account for edge easing when determining the bearing capacity of the support material, subtract 0.10" from the flange width for the LPI 530.
- 4. Reaction Capacity is for normal load duration and shall be adjusted according to code. Flange Bearing Capacity and the bearing capacity of any wood support shall not be adjusted for load duration.
- 5. Reaction Capacity and Flange Bearing Capacity may be increased over that tabulated for the minimum bearing length. Linear interpolation of the Reaction Capacity between the minimum and maximum bearing length is permitted. Bearing lengths longer than the maximum do not further increase Reaction Capacity. Flange Bearing Capacity and that of a wood support will increase with additional bearing length.
- 6. See below for information on web stiffener sizes and nailing.

Determine the unstiffened end reaction capacity for a 11-7/8" LPI 530 with 2" of bearing for a non-snow roof load and supported

EXAMPLE:

- on an SPF wall plate (425 psi). Determine End Reaction (ER) w/out Stiffeners:
- 1. $\mathsf{ER} = 880 + (1120 - 880)^*(2" - 1.5")/(4" - 1.5") = 928 \ \mathsf{lbs}$
- 2. Adjust for load duration: Adjusted ER = 928 * 1.25 = 1160 lbs
- Determine Flange Bearing Capacity (FBC): FBC = 1095 lb/in * 2" = 2190 lbs 3.
- Determine wall Plate Bearing Capacity (PBC): PBC = 425 psi * (2.0625" 0.10") * 2" = 1668 lbs 4.
- 5. Final End Reaction Capacity w/out Stiffeners = 1160 lbs

WEB STIFFENER REOUIREMENTS

Series	Depth	Minimum Thickness	Maximum Height	Nail Size*	Nail Qty	
	9-1/2"	23/32"	6-3/8"	8d (2-1/2")	3	
LPI 530	11-7/8"	23/32"	8-3/4"	8d (2-1/2")	3	
LPI 530	14"	23/32"	10-7/8"	8d (2-1/2")	3	
	16"	23/32"	12-7/8"	8d (2-1/2")	3	

* Nails may be Box or Common.

FLANGE FACE NAILING

Series	Noil Circ and Turc	Minimum N	ail Distance
Series	Nail Size and Type	oc Spacing	End
	8d (2-1/2") Box or Common	3"	1-1/2"
	10d (3") or 12d (3-1/4") Box	3"	1-1/2"
LPI 530	10d (3") or 12d (3-1/4") Common	3"	1-1/2"
	16d Sinker (3-1/4")	3"	1-1/2"
	16d (3-1/2") Box or Common	5"	1-1/2"

NOTES:

1. Use only 10d box or 8d nails when securing an LPI floor or roof joist to its supports.

RIM & BLOO CAPACITY	CKING	
Series	Depth	Uniform Vertical Load Capacity
		(plf)
	9-1/2"	2000
LPI 530	11-7/8"	2000
LFI 530	14"	1100
	16"	1100

NOTES:

- 1. Uniform Vertical Load Capacity shall not be adjusted for load duration.
- 2. Concentrated vertical loads require the addition of squash blocks. Do not use LPI rim or blocking to support concentrated vertical loads.
- 3. Lateral load capacity for all series above is 200 plf but may be limited by the connection details used. Do not exceed the Flange Face Nailing requirements above.

FLOOR SPAN TABLES

THESE TABLES MUST BE USED IN CONJUNCTION WITH THE LP® SOLIDSTART® TECHNICAL GUIDE FOR RESIDENTIAL CONSTRUCTION.

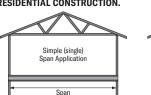
TO USE:

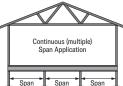
1. Select the Simple Span or Continuous Span table, as required.

2. Find a span that meets or exceeds the required clear span.

3. Read the corresponding joist series, depth and spacing.

CAUTION: For floor systems that require both Simple Span and Continuous Span joists, it is a good idea to check both before selecting a joist. Some conditions are controlled by Continuous Span rather than Simple Span.





40 PSF LIVE LOAD, 10 PSF DEAD LOAD

				Sim	ole Span								Continuo	ous Span			
Carles	Series Depth L/480 L/360									L/	480; No W	eb Stiffene	rs	L/4	80; With V	Veb Stiffen	ers
Series	Depth	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc
	9-1/2"	18'-3"	16'-8"	15'-9"	14'-9"	20'-2"	18'-6"	17'-6"	16'-4"	19'-11"	18'-2"	17'-2"	16'-0"	-	-	-	-
LPI 530	11-7/8"	21'-8"	19'-10"	18'-9"	17'-5"	23'-11"	21'-11"	20'-9"	17'-9"	23'-7"	21'-7"	20'-5"	16'-8"	-	-	-	19'-0"
LPI 530	14"	24'-6"	22'-5"	21'-2"	17'-10"	27'-1"	24'-10"	22'-4"	17'-10"	26'-9"	24'-5"	21'-4"	17'-0"	-	-	23'-1"	20'-3"
	16"	27'-2"	24'-10"	22'-5"	17'-10"	30'-0"	26'-11"	22'-5"	17'-10"	29'-7"	26'-2"	21'-9"	17'-4"	-	27'-1"	25'-6"	20'-4"

40 PSF LIVE LOAD, 15 PSF DEAD LOAD

				Sim	ple Span								Continue	ous Span			
Carles	eries Depth L/480 L/360									L/	480; No W	eb Stiffene	rs	L/4	80; With V	Veb Stiffen	ers
Series	Deptn	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc
	9-1/2"	18'-3"	16'-8"	15'-9"	14'-9"	20'-2"	18'-6"	17'-6"	16'-1"	19'-11"	18'-2"	17'-2"	14'-8"	-	-	-	16'-0"
LPI 530	11-7/8"	21'-8"	19'-10"	18'-9"	16'-1"	23'-11"	21'-11"	20'-3"	16'-1"	23'-7"	21'-7"	19'-0"	15'-1"	-	-	20'-5"	17'-9"
LPI 530	14"	24'-7"	22'-5"	20'-3"	16'-2"	27'-1"	24'-5"	20'-3"	16'-2"	26'-9"	23'-4"	19'-4"	15'-5"	-	24'-5"	23'-1"	18'-7"
	16"	27'-2"	24'-5"	20'-4"	16'-2"	30'-0"	24'-5"	20'-4"	16'-2"	29'-7"	23'-10"	19'-9"	15'-9"	-	27'-0"	23'-4"	18'-7"

40 PSF LIVE LOAD, 25 PSF DEAD LOAD

				Sim	ple Span					Continuous Span							
Carles	Dauth		L/4	80			L/3	360		L/	480; No W	eb Stiffene	rs	L/4	80; With V	Veb Stiffen	ers
Series	Depth	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc	12" oc	16" oc	19.2" oc	24" oc
	9-1/2"	18'-3"	16'-8"	15'-9"	13'-7"	19'-8"	18'-0"	17'-0"	13'-7"	19'-11"	18'-2"	15'-7"	12'-5"	-	-	17'-2"	13'-10"
LPI 530	11-7/8"	21'-8"	19'-10"	17'-1"	13'-7"	23'-3"	20'-6"	17'-1"	13'-7"	23'-7"	19'-3"	16'-0"	12'-9"	-	21'-7"	18'-10"	15'-0"
LPI 530	14"	24'-7"	20'-7"	17'-1"	13'-7"	26'-5"	20'-7"	17'-1"	13'-7"	26'-4"	19'-8"	16'-4"	13'-0"	26'-9"	23'-6"	19'-11"	15'-10"
	16"	27'-1"	20'-8"	17'-2"	13'-8"	27'-8"	20'-8"	17'-2"	13'-8"	26'-11"	20'-1"	16'-8"	13'-3"	29'-1"	24'-0"	19'-11"	15'-11"

DESIGN ASSUMPTIONS:

- 1. The spans listed are the clear distance between supports. Continuous spans are based on the longest span. The shortest span shall not be less than 50% of the longest span.
- 2. The spans are based on uniform floor loads only as listed at the top of the page.
- These tables reflect the additional stiffness provided by 48/24 APA RATED SHEATHING or 24 oc APA RATED STURD-I-FLOOR, or equal, glued and nailed to the top flange.
- Live Load deflection is limited to L/480 or L/360 for simple spans as listed, and L/480 only for continuous spans.
- 5. Total Load deflection is limited to L/240.
- 6. The spans are based on an end bearing length of at least 1-3/4" and an interior bearing length of at least 3-1/2", and are limited to the bearing capacity for an SPF wall plate ($F_{c_{\perp}}$ = 425 psi).

ADDITIONAL NOTES:

- Web stiffeners are not required for the Simple Spans tables. Web stiffeners are not required at the end bearings for the Continuous Span tables. Web stiffeners at intermediate supports are only required where listed in the "With Web Stiffeners" section of each table. A "-" indicates no increase in span with web stiffeners. Web fillers are required for I-Joists seated in hangers that do not laterally support the top flange.
- L/360 represents the maximum deflection allowed per code and may not provide suitable floor performance. L/480 or better is recommended for most applications.
- 3. These spans are not evaluated for vibration.
- Though not required for the spans above, bridging, blocking, bottom-flange bracing or a directapplied gypsum ceiling can improve the feel of a floor.
- For conditions not shown, use the Uniform Floor Load (PLF) tables, LP's design software or contact your LP Engineered Wood Products distributor for assistance.

FRAMING CONNECTORS

GENERAL NOTES:

- 1. The following tables provide a list of the common hangers and connectors for use with LP SolidStart I-Joists based on geometry fit only.
- 2. Refer to the manufacturer's connector guide for a complete list of hangers and to verify the load capacity and suitability of a hanger or connector for a particular application.
- 3. Follow all connector manufacturers' installation guidelines.

SIMPSON STRONG-TIE®

Series	Danéh	Top-N	lount	Face-I	Nount	45° Skewed	Field Slope & Skew	Variable Pitch Seat
Series	Depth	Single	Double	Single	Double	Single	Single	Single
	9-1/2"	ITS2.06/9.5	MIT4.28/9.5*	IUS2.06/9.5	MIU4.28/9	SUR/L2.1/9	LSSR2.1Z*	VPA2.1
	11-7/8"	ITS2.06/11.88	MIT4.28/11.88*	IUS2.06/11.88	MIU4.28/11	SUR/L2.1/11	LSSR2.1Z*	VPA2.1
LPI 530	14"	ITS2.06/14	MIT4.28/14*	IUS2.06/14	MIU4.28/14	SUR/L2.1/14	LSSR2.1Z*	VPA2.1
	16"	ITS2.06/16	LBV4.28/16	IUS2.06/16	MIU4.28/16	SUR/L2.1/14*	**	VPA2.1

* Web filler required for proper installation of hanger. ** Refer to Simpson Strong-Tie "Wood Construction Connectors" catalog for hanger selection.

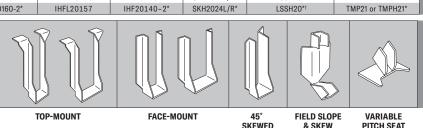
MiTek® STRUCTURAL CONNECTORS

Series	Dauth	Top-N	lount	Face-	Mount	45° Skewed	Field Slope & Skew	Variable Pitch Seat ¹
Series	Depth	Single	Double	Single	Double	Single	Single	Single
	9-1/2"	TFL2095	TH020950-2*	IHFL20925	IHF20925-2*	SKH2020L/R*	LSSH20*	TMP21 or TMPH21*
LPI 530	11-7/8"	TFL20118	TH020118-2*	IHFL20112	IHF20112-2*	SKH2020L/R*	LSSH20*	TMP21 or TMPH21*
LPI 530	14"	TFL2014	TH020140-2*	IHFL20140	IHF20140-2*	SKH2024L/R*	LSSH20*	TMP21 or TMPH21*
	16"	TFL2016	TH020160-2*	IHFL20157	IHF20140-2*	SKH2024L/R*	LSSH20*†	TMP21 or TMPH21*
* Web filler requi	16" red for proper install		TH020160-2*	IHFL20157	IHF20140-2*	SKH2024L/R*	LSSH20*†	TMP21 or TM

Web filler required for proper installation of hanger

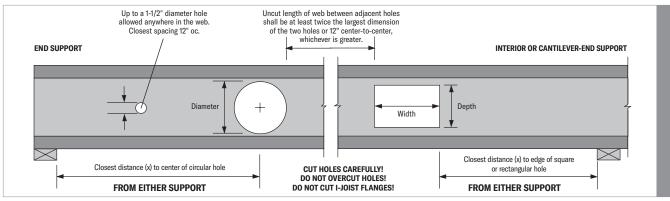
† Hanger height is less than 60% of the joist depth. Supplemental lateral support of the top flange is required. Refer to MiTek's installation instructions.

1. Use TMP seats for joist pitch of 1:12 to 6:12. Use TMPH for joist pitch of 6:12 and greater.



WEB HOLE TABLES

THESE TABLES MUST BE USED IN CONJUNCTION WITH THE LP® SOLIDSTART® TECHNICAL GUIDE FOR RESIDENTIAL CONSTRUCTION.



TO USE:

- 1. Select the required series and depth.
- 2. Determine the support condition for the nearest bearing end support or interior support (including cantilever-end supports).
- 3. Select the row corresponding to the required Clear Span. For spans between those listed, use the next largest value.
- 4 Select the column corresponding to the required hole diameter. For diameters between those listed, use the next largest value.
- 5. 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.
- 6. Double check the distance to the other support, using the appropriate support condition.

			01		Dista	ance fron	n End Sup	port		Distan	ce from l	nterior o	r Cantilev	ver-End S	upport	
	Series	Depth	Clear Span			Hole Di	ameter					Hole Di	ameter			
			Span	2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"	
			6'	1'-0"	1'-0"	1'-0"	-	-	-	1'-0"	1'-0"	1'-0"	-	-	-	
		9-1/2"	10'	1'-0"	1'-0"	1'-4"	-	-	-	1'-0"	1'-0"	2'-6"	-	-	-	
		9-1/2	14'	1'-0"	1'-1"	3'-9"	-	-	-	1'-0"	2'-10"	5'-0"	-	-	-	
S			18'	1'-0"	3'-5"	6'-3"	-	-	-	3'-2"	5'-4"	7'-6"	-	-	-	
Ë			10'	1'-0"	1'-0"	1'-0"	1'-2"	-	-	1'-0"	1'-0"	1'-0"	2'-5"	-	-	
Ξ		11-7/8"	14'	1'-0"	1'-0"	1'-2"	3'-7"	-	-	1'-0"	1'-0"	2'-10"	4'-11"	-	-	
AR	LPI 530		11-7/8"	18'	1'-0"	1'-1"	3'-5"	6'-1"	-	-	1'-4"	3'-4"	5'-4"	7'-5"	-	-
1 E			22'	1'-1"	3'-4"	5'-10"	8'-9"	-	-	3'-10"	5'-10"	7'-10"	10'-2"	-	-	
CIRCULAR HOLES			14'	1'-0"	1'-0"	1'-0"	1'-3"	3'-7"	-	1'-0"	1'-0"	1'-1"	3'-0"	4'-11"	-	
0		14"	18'	1'-0"	1'-0"	1'-4"	3'-7"	6'-2"	-	1'-0"	1'-7"	3'-7"	5'-6"	7'-5"	-	
		14	22'	1'-0"	1'-5"	3'-7"	6'-0"	8'-10"	-	2'-2"	4'-1"	6'-1"	8'-0"	10'-3"	-	
			26'	1'-5"	3'-7"	5'-11"	8'-6"	11'-7"	-	4'-8"	6'-7"	8'-7"	10'-6"	-	-	
			18'	1'-0"	1'-0"	1'-0"	1'-7"	3'-9"	6'-4"	1'-0"	1'-0"	1'-11"	3'-9"	5'-8"	7'-7"	
		16"	22'	1'-0"	1'-0"	1'-9"	3'-10"	6'-3"	9'-0"	1'-0"	2'-6"	4'-5"	6'-3"	8'-2"	10'-5"	
		10	26'	1'-0"	1'-10"	3'-11"	6'-3"	8'-10"	11'-9"	3'-2"	5'-0"	6'-11"	8'-9"	10'-8"	-	
			30'	1'-11"	4'-0"	6'-3"	8'-9"	11'-5"	14'-7"	5'-8"	7'-6"	9'-5"	11'-3"	13'-4"	-	

			0		Dista	nce fron	1 End Su	pport		Distan	ce from l	nterior o	r Cantilev	er-End S	upport
	Series	Depth	Clear Span	Max	ximum He	ole Dimei	nsion: De	pth or Wi	dth	Ma	ximum Ho	ole Dimer	ision: De	pth or Wi	dth
			Span	2"	4"	6"	8"	10"	12"	2"	4"	6"	8"	10"	12"
			6'	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-5"	1'-0"	1'-0"	1'-0"	1'-3"	1'-8"	2'-0"
		9-1/2"	10'	1'-0"	1'-0"	2'-6"	2'-11"	3'-5"	3'-11"	1'-0"	2'-1"	3'-5"	3'-9"	4'-2"	-
		9-1/2	14'	1'-7"	3'-2"	5'-0"	5'-7"	6'-1"	-	3'-3"	4'-7"	5'-11"	6'-5"	-	-
HOLES	LPI 530		18'	3'-11"	5'-8"	7'-9"	8'-4"	-	-	5'-9"	7'-1"	-	-	-	-
운			10'	1'-0"	1'-0"	1'-9"	3'-3"	3'-9"	4'-3"	1'-0"	1'-9"	2'-10"	4'-0"	4'-5"	-
		11-7/8"	14'	1'-5"	2'-9"	4'-2"	5'-11"	6'-6"	-	3'-1"	4'-3"	5'-4"	-	-	-
E			11-7/8"	18'	3'-8"	5'-2"	6'-9"	8'-8"	-	-	5'-7"	6'-9"	7'-11"	-	-
RECTANGULAR			22'	6'-1"	7'-9"	9'-6"	-	-	-	8'-1"	9'-3"	-	-	-	-
TA	LPI 530		14'	1'-0"	1'-0"	1'-10"	3'-7"	5'-8"	6'-4"	1'-0"	2'-1"	3'-6"	4'-11"	6'-6"	-
E E		14"	18'	1'-0"	2'-5"	4'-2"	6'-2"	8'-5"	-	3'-1"	4'-7"	6'-0"	7'-5"	-	-
_		14	22'	3'-1"	4'-9"	6'-8"	8'-9"	-	-	5'-7"	7'-1"	8'-6"	10'-2"	-	-
			26'	5'-5"	7'-3"	9'-3"	11'-6"	-	-	8'-1"	9'-7"	11'-0"	-	-	-
			18'	1'-0"	2'-2"	3'-9"	5'-5"	7'-4"	-	3'-0"	4'-4"	5'-7"	6'-11"	8'-6"	-
		16"	22'	2'-11"	4'-6"	6'-2"	8'-0"	10'-1"	-	5'-6"	6'-10"	8'-1"	9'-5"	-	-
		10	26'	5'-3"	6'-11"	8'-9"	10'-8"	-	-	8'-0"	9'-4"	10'-7"	12'-4"	-	-
			30'	7'-8"	9'-5"	11'-4"	13'-5"	-	-	10'-6"	11'-10"	13'-3"	-	-	-

For more information on the full line of LP[®] SolidStart[®] Engineered Wood Products or the nearest distributor, visit our web site at LPCorp.com. Phone: 1-888-820-0325 | E-mail: customer.support@LPCorp.com.

LP SolidStart Engineered Wood Products are manufactured at different locations in the United States and Canada.

Please verify availability with the LP SolidStart Engineered Wood Products distributor in your area before specifying these products.

DESIGN ASSUMPTIONS:

- The hole locations listed are valid for floor joists supporting only uniform loads. The total uniform load shall not to exceed 130 plf (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 or to the nearest edge of a rectangular 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.
- 4. The maximum hole depth for circular holes is the I-Joist Depth less 4, except the maximum hole depth is 6° for 9-1/2" LP I-Joists, and 8° for 11-7/8" LP I-Joist Where the Maximum Hole Dimension exceeds the hole depth, the dimension refers to hole width and the depth of the hole is assumed to be the maximum hole to that joist depth. The maximum hole width is 18, regardless of I-Joist Depth.
- Holes cannot be located in the span where designated "-", without further analysis by a design professional.

NOTES:

- Holes may be placed anywhere within the depth of the web. A minimum 1/4" clear distance from the flanges is recommended so as not to cut a flange.
- Round holes up to 1-1/2" diameter may be placed anywhere in the web.
- Perforated "knockouts" may be neglected when locating web holes.
- Holes larger than 1-1/2" are not permitted in cantilevers without appendix provide and permitted in cantilevers
- without special engineering.
 5. Multiple holes shall have a clear separation along the length of the joist of at least twice the larger dimension of the larger adjacent hole, or a minimum of 12" center-to-center, whichever is greater.
- 6. 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) provided that a 3" 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 Engineered Wood Products distributor for more information.



For product catalog & complete warranty details, visit LPCorp.com

CAL. PROP 65 WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

© 2021 Louisiana-Pacific Corporation. All rights reserved. APA and APA Rated are registered trademarks of APA – The Engineered Wood Association. SIMPSON Strong-Tie[®] is a registered trademark of Simpson Strong-Tie Company, Inc. MiTek[®] is a registered trademark of MiTek Holdings, Inc. LP[®] and SolidStart[®] are registered trademarks of Louisiana-Pacific Corporation. Printed in USA. Specifications (details) subject to change without notice. NOTE: Louisiana-Pacific Corporation periodically updates and revises its product information. To verify that this version is current, contact the nearest sales office, visit LPCorp.com, or call 1-888-820-0325.